Epyk

Release 0.0.1

Epykure

Sep 24, 2023

CONTENTS


PYK

CHAPTER

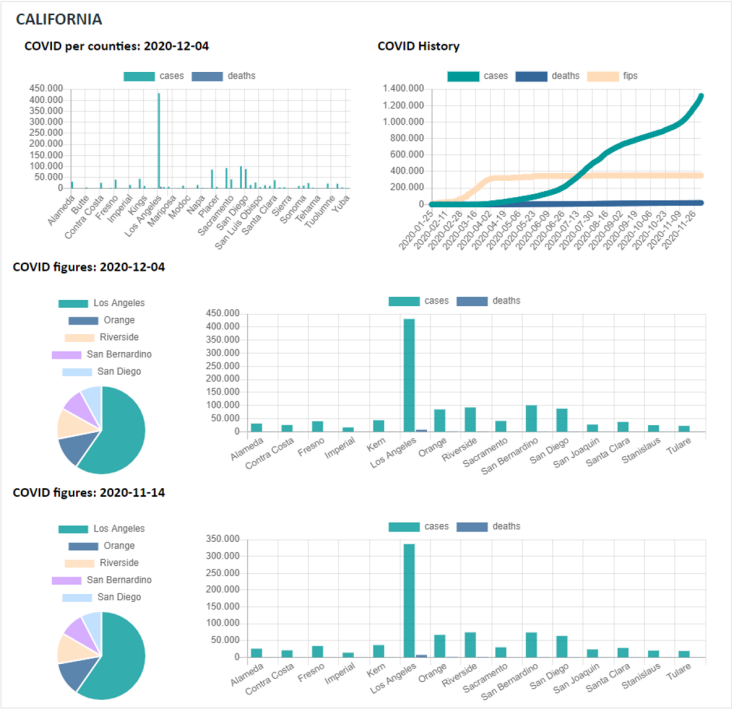
ONE

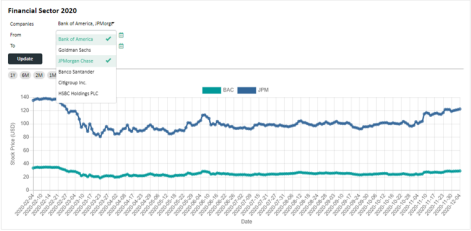
PRESENTATION

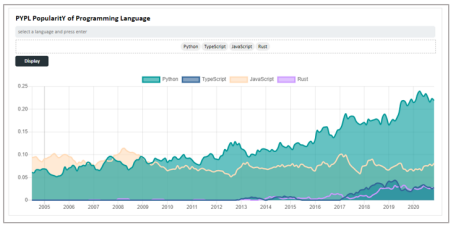
The target of Epyk is to ensure the implementation of a coherent system using a minimum of layers. With Epyk the user stays in the Python layer to drive and optimize the data transformation. This Framework also encourages the implementation of Micro services and cloud based architecture.

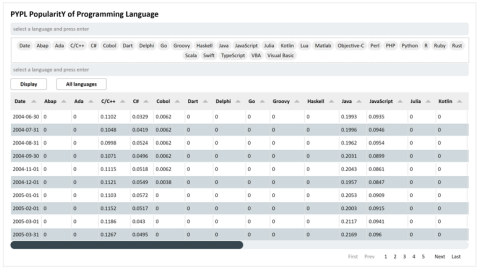
This package will allow you to easily create rich and interactive web interfaces to your projects.

No JavaScript, CSS or HTML5 knowledge needed, the platform will provide you the best experience thanks to the community.









CHAPTER

TWO

COMPATIBILITY

Epyk is compatible with the most common Web Python Frameworks (Flask and Django). By default, the server package embeds a Flask app as it is easier to install and ready to use.

The Framework can be included within a jupyter/Jupyter or jupyter/JupyterLab project. But this will lead to some limitations - for example Ajax and Socket will not be available.

CHAPTER

THREE

COMMUNITY & SUPPORT

Epyk is an **OpenSource** module dedicated to provide functions and components to improve the productivity. Do not hesitate to participate in improving the library.

Any help are welcome and this can be done by JavaScript developers interesting to learn Python or by Python developers.

Also please do not forget to star our project on Github or to follow us on Twitter or on LinkedIn to get the latest news.

CHAPTER

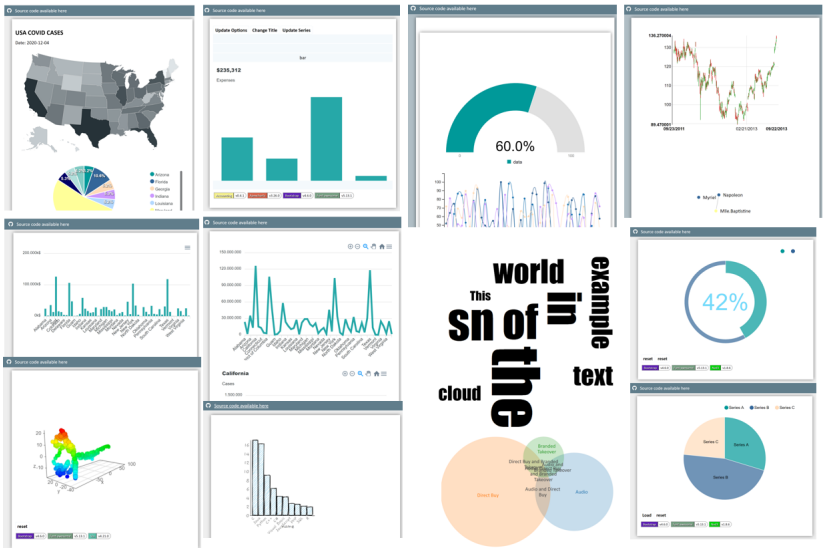
FOUR

EXAMPLES

You can find examples of what Epyk can do right here:

- Components
- Dashboards
- Websites
- Jupyter Playground

Also get online demo from the Epyk Gallery



CHAPTER

FIVE

COMING SOON

Please see below the 2021 road map of notifications on Twitter:

Do not hesitate to follow us on Twitter or to help us improving our code by sending pull requests on Github !

5.1 Getting started with Epyk

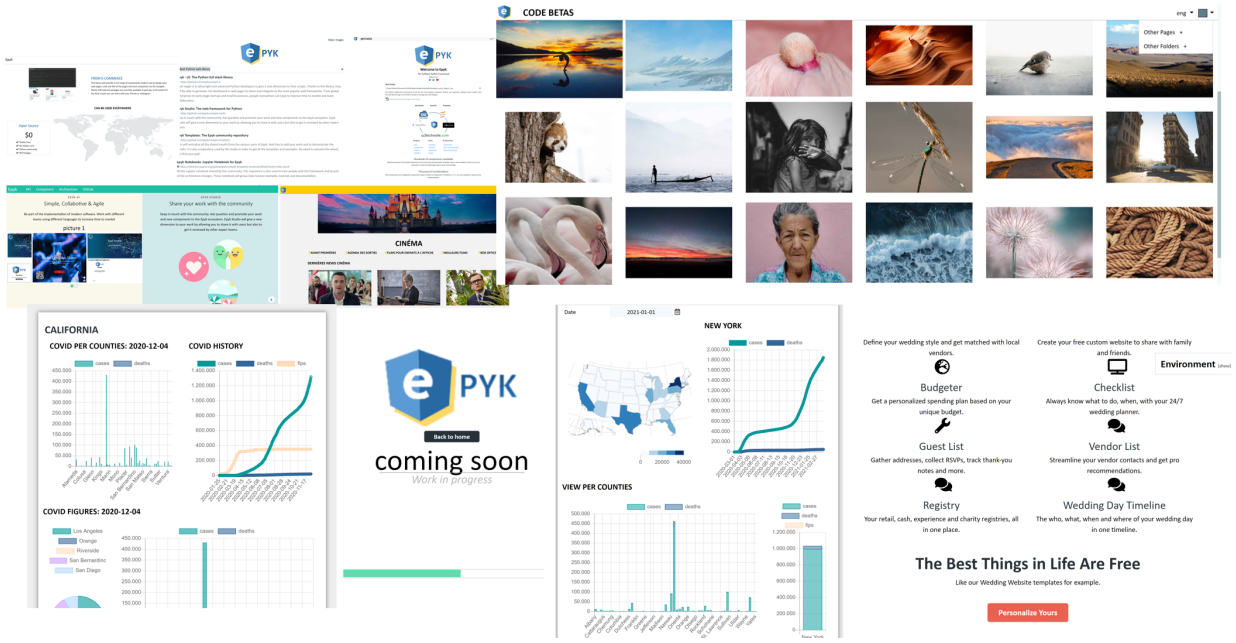
Epyk is designed for Python developers or users interested in implementing an entire product without having to change technologies.

5.1.1 What is Epyk?

Epyk is an OpenSource library designed to improve time to market for Data Scientists and any people eager to prototype a new / or an extension to a product in a quite flexible manner.

The main targets of Epyk are to:

- Allow Python developers to present and share their work to users.
- Simplify the prototyping by using **components** and **templates**.
- Easy to start for beginners.
- Help to **ramp up with web technologies** by learning those concepts.
- Be used as a **web toolbox** to improve time to market and the learn web technologies.



5.1.2 Installation

Assuming you have Python already, install Epyk:

```
pip install epyk
```

Create a directory inside your project to hold your ui and run the epyk-new command::

```
epyk.exe new
```

This command will create a first empty report in your folder. Then the below command will convert (transpile) it to a web page:

```
epyk.exe transpile
```

See also:

More details on the *CLI Features*.

For a quick examples it is possible to use the below CLI:

```
epyk.exe demo
```

The will generate the below script epyk_demo.py in the current directly:

```
epyk.exe transpile -n=epyk_demo
```

This script will demo some common features available in the library:

```
import epyk as pk

# Module with mock data
from epyk.tests import mocks
```

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```
# Create a basic report object
page = pk.Page()
page.headers.dev()

page.body.template.style.configs.doc()

# Change the CSS style of the div template container
page.body.template.style.css.background = "white"

table = page.ui.table(mocks.popularity_2020)
table.options.paginationSize = 10

toggle = page.ui.toggle({"on": "Trend", "off": "Share"})
bar = page.ui.charts.bar(mocks.popularity_2020, y_columns=["Share"], x_axis="Language")

toggle.click([
  # Store the variable to myData on the JavaScript side
  pk.std.var("myData", sorted(mocks.popularity_2020, key=lambda k: k['Language'])),
  # Use the standard build and dom.content to respectively update and get the component␣
↪value
  pk.expr.if_(toggle.input.dom.content.toStr(), [
    # Use the variable to update the chart
    bar.build(pk.std.var("myData"), options={"y_columns": ["Trend"]})
  ]).else_([
    bar.build(pk.std.var("myData"), options={"y_columns": ["Share"]})
  ])
])
```

Another example is available in the Github templates repo to illustrate how to adapt a script to backend services. Very few changes are required to add a backend post to an underlying service:

```
toggle.click([
  page.js.post("/data", components=[toggle.input]).onSuccess([
    bar.build(pk.events.data["chart_data"], options={"y_columns": pk.events.data["columns
↪"]})
  ])
])
```

5.1.3 Dependencies

Epyk does not require any python dependency. The idea of this library is to code with any packages or frameworks used in both Python and JavaScript side. Thus it will not impose any library to run. Obviously component are done in a way to deal with records (list of dictionaries) which are common objects in Pandas.

The only thing required to work is an internet connection to be able to retrieve the external packages on which Epyk leverage to render the page.

Those packages are not part of the project and they are developed independently.

See also:

his is not a new Visualisation library with some core Javascript embedded modules, this is a unique library which link your python code to external and already popular JavaScript and CSS packages

5.1.4 First Page

In Epyk the object used to create the final web page is called a *Page*. The page object will be the one available to each component in charge of triggering the *.html()* on each components.

The unique page object will store all the components in a *page.components* dictionary. Each component will be in charge of defining its JavaScript bindings, its HTML5 structure and also its need in external resources guides/component-structure.

5.1.5 Quick start

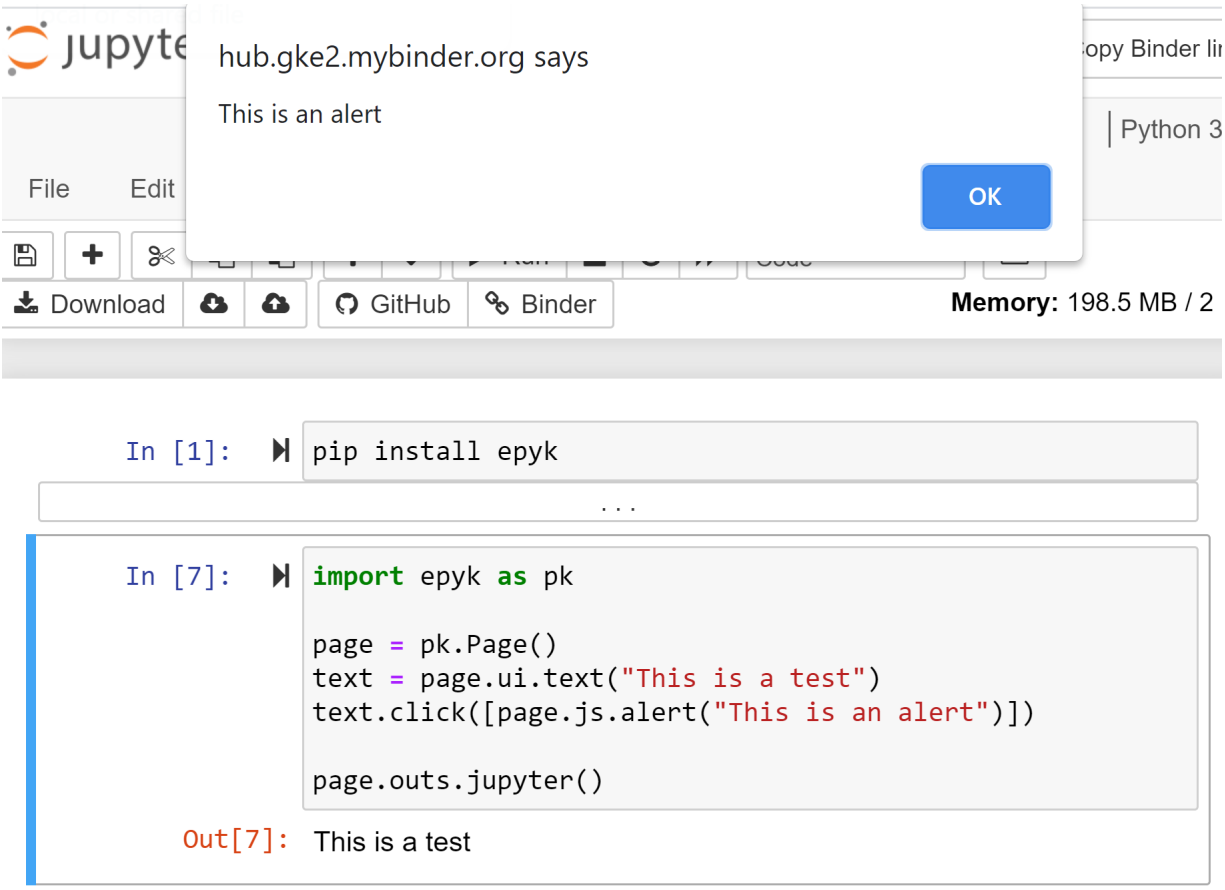
The below will illustrate how to start with Epyk and build your first report. This will write the web artifacts locally:

```
import epyk as pk

page = pk.Page()
text = page.ui.text("This is a test")
text.click([page.js.alert("This is an alert")])
page.outs.html()
```

the last line *page.outs.html()* is important since it will produce the final web files which can be used in a browser. It will be very often not mentioned in the examples because this can vary according to the framework used.

In the below example *page.outs.jupyter()* is used instead to render the example from an online session of Jupyter notebook.



Also this is not needed if you use the *CLI Features* to render the page.

The best to get more familiar with Epyk is to use PyCharm and the code autocompletion or to start with examples on the template Github repository

5.1.6 Web Development

From Epyk it is possible to interface any Python project using any Backend technology. It can be used like Jinja to render rich HTML content on the fly.

The below example illustrate how to generate an interactive dashboard with few lines of codes and without any server:

```
page = pk.Page()
#page.theme.color_palette("brewer.PuBu8")

# Set the page layout
template = page.body.add_template(defined_style="doc")
template.style.css.background = page.theme.greys[0]

page.ui.title("Pandas tutorial #5")
page.ui.texts.references.website(url="https://towardsdatascience.com/data-visualization-
↪with-bokeh-in-python-part-ii-interactions-a4cf994e2512")
source_data = "https://raw.githubusercontent.com/WillKoehrsen/Bokeh-Python-Visualization/
↪master/interactive/data/complete_flights.csv"
```

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```
df = pd.DataFrame(page.py.requests.csv(source_data, store_location=r"C:\tmps"))
df["dep_delay"] = pd.to_numeric(df["dep_delay"], downcast="float")
df["distance"] = pd.to_numeric(df["distance"], downcast="float")
agg_df = df.groupby(["name", "month", "distance"])["dep_delay"].sum()
agg_df = agg_df.reset_index()

max_value = float(df["distance"].max())
checks = page.ui.lists.checks(list(df["name"].unique()))
dist = page.ui.fields.static("[0, %s]" % max_value, label="Min, Max distance")
slider = page.ui.sliders.range([0, max_value], maximum=max_value)

chart = page.ui.charts.chartJs.bar(y_columns=["dep_delay"], x_axis="month")
table = page.ui.table(rows=["name", "month", "distance"], cols=["dep_delay"])
table.config.pagination = "local"
table.config.paginationSize = 10

pie = page.ui.charts.chartJs.pie(y_columns=["dep_delay"], x_axis="name")
pie_count = page.ui.charts.chartJs.pie(y_columns=["count"], x_axis="name")

grp = page.data.js.record(agg_df.to_dict(orient="records")).filterGroup("aggData")
grp2 = page.data.js.record(agg_df.to_dict(orient="records")).filterGroup("aggData2")

update_button = page.ui.buttons.colored("update")

row = page.ui.row([[checks, update_button], chart], position="top")
row.set_size_cols(4)

total_delay = page.ui.titles.subtitle("Total Delay")
count_delay = page.ui.titles.subtitle("Count Delay")
page.ui.row([[total_delay, pie], [count_delay, pie_count]], position="top")

toggle = page.ui.buttons.toggle({'on': "More than 3 hours", 'off': 'All delays'}, label=
↪"Delay Type",)

hamburger = page.ui.panels.hamburger([dist, slider, toggle], title="Details")
table.move()

page.ui.layouts.hr()
page.ui.titles.subtitle("Report powered by")
page.ui.rich.powered()
```

The below will add the interactivity and the JavaScript data transformation:

```
toggle.input.click([
  page.js.if_(
    toggle.input.dom.content.isTrue(), [
      chart.build(grp.includes("name", checks.dom.content, empty_all=False).sup("dep_
↪delay", 180).sup("distance", slider.dom.min_select).inf("distance", slider.dom.max_
↪select).group().sumBy(["dep_delay"], ["month"], cast_vals=True)),
      table.build(grp.includes("name", checks.dom.content, empty_all=False).sup("dep_
↪delay", 180).sup("distance", slider.dom.min_select).inf("distance", slider.dom.max_
↪select)),
```

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```
      pie.build(grp.includes("name", checks.dom.content, empty_all=False).sup("distance",
↪ slider.dom.min_select).inf("distance", slider.dom.max_select).group().sumBy(["dep_
↪delay"], ["name"], cast_vals=True)),
      pie_count.build(grp.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select).group().
↪countBy(["name"]))
    ]).else_([
      chart.build(grp2.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select).group().
↪sumBy(["dep_delay"], ["month"], cast_vals=True)),
      table.build(grp2.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select)),
      pie.build(grp2.includes("name", checks.dom.content, empty_all=False).sup("distance
↪", slider.dom.min_select).inf("distance", slider.dom.max_select).group().sumBy(["dep_
↪delay"], ["name"], cast_vals=True)),
      pie_count.build(grp2.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select).group().
↪countBy(["name"]))
  ]),
  dist.input.build(slider.dom.content)
])

# Reuse the code generated by the toggle click for the below components.
update_button.click(toggle.input.event_fnc("click"))
slider.change(toggle.input.event_fnc("click"))
```

By adding *page.outs.html()* it will generate a file which can be opened in a browser

5.2 First Pages with Epyk

It is possible to implement simple static page to rich and interactive ones. Epyk will provide interfaces to components and events which can be used as an simple interface to a model or data source to a more complex ones interacting with any backend servers.

> **Warning:** The line `page.outs.jupyter()` need to be added to run in online Jupyter notebooks.

5.2.1 Step-by-step

5.2.1.1 Simple Page

Let's start with simple chart with the hard coded values, to do so we will add components available to `page.ui`:

```
import epyk as pk

data = [
    {"x": "label 1", "y": 23},
```

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```
    {"x": "label 2", "y": 10},
]
page = pk.Page()
page.ui.charts.chartJs.line(data, y_columns=["y"], x_axis="x")
```

Note: By convention common components are attached directly to the `page.ui` property.

Plural names are used by convention to provide different flavour of them `page.ui.fields`

5.2.1.2 Changing style

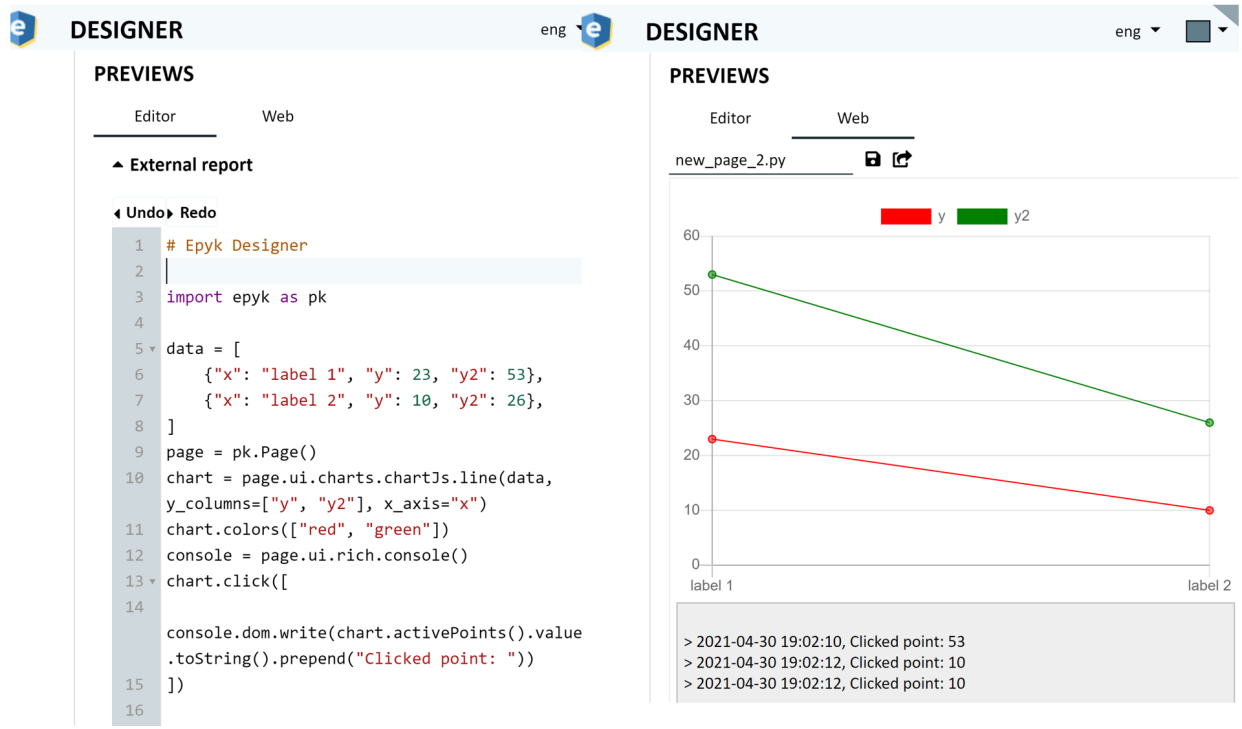
The below will change the color of the lines:

```
import epyk as pk

data = [
    {"x": "label 1", "y": 23, "y2": 53},
    {"x": "label 2", "y": 10, "y2": 26},
]
page = pk.Page()
chart = page.ui.charts.chartJs.line(data, y_columns=["y", "y2"], x_axis="x")
chart.colors(["red", "green"])
```

5.2.1.3 Adding events

This will create:

```
import epyk as pk

data = [
    {"x": "label 1", "y": 23, "y2": 53},
    {"x": "label 2", "y": 10, "y2": 26},
]
page = pk.Page()
chart = page.ui.charts.chartJs.line(data, y_columns=["y", "y2"], x_axis="x")
chart.colors(["red", "green"])
console = page.ui.rich.console()
chart.click([
   console.dom.write(chart.activePoints().value.toString().prepend("Clicked point: "))
])
```



5.2.1.4 Using external API

This will create:

```
import epyk as pk

# Socket server url
SERVER_SOCKET_HOST = "127.0.0.1"
SERVER_SOCKET_PORT = 5000

from flask import Flask
app = Flask(__name__)


def create_page():
  page = pk.Page()
  page.headers.dev()

  title = page.ui.title("Flask - First example")
  input = page.ui.inputs.left(placeholder="Enter your name", html_code="msg")
  button = page.ui.buttons.colored("Click")
  text = page.ui.text()
  simple_modal = page.ui.modals.popup([text])
  input.enter([button.dom.events.trigger("click")])
  button.click([page.js.post("/test_event", components=[input]).onSuccess([
    text.build(pk.events.data["message"]),
    simple_modal.dom.show()
  ])])
```

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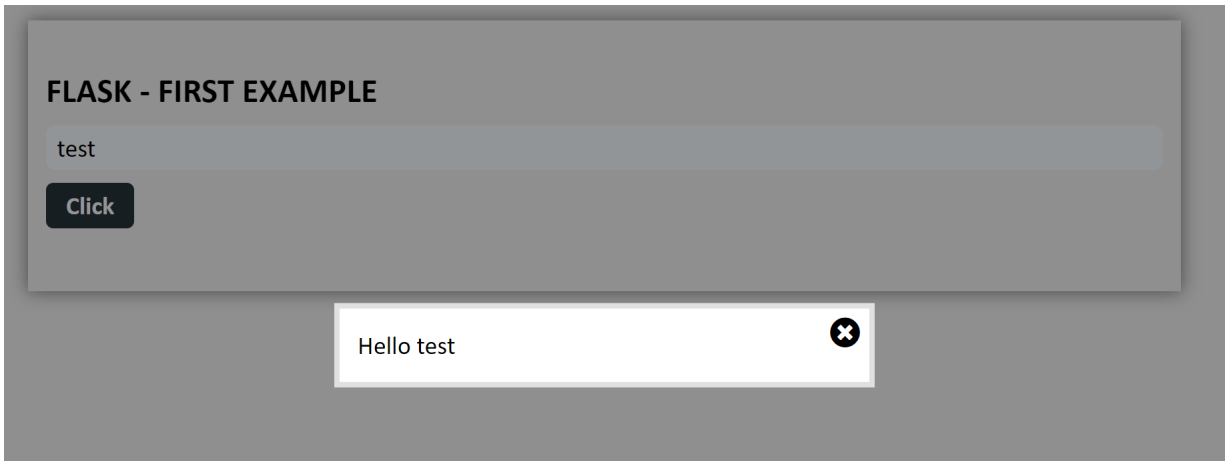
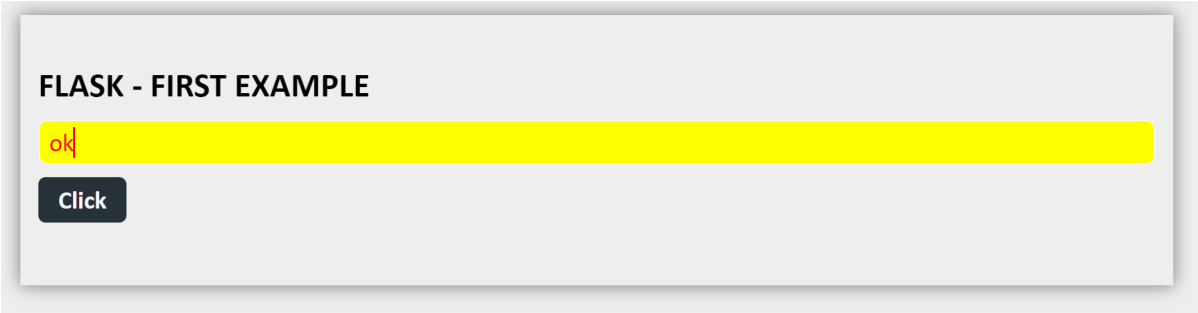
```
  box = page.ui.div()
  box.extend([title, input, button])
  box.style.configs.doc()
  return page


if __name__ == "__main__":
  from flask import Flask, jsonify, request

  @app.route('/')
  def ui():
    return create_page().outs.html()

  @app.route('/test_event', methods=['POST'])
  def test_event():
    data = request.get_json()
    return jsonify({"message": "Hello %s" % data['msg']})

  Flask.run(app, host=SERVER_SOCKET_HOST, port=SERVER_SOCKET_PORT, debug=True)
```



In the above example it is possible to change all the CSS properties of the compontents. For example, the below will change the color and the background color:

```
input = page.ui.inputs.left(placeholder="Enter your name", html_code="msg")
input.style.css.color = "red"
input.style.css.background = "yellow"
```



5.2.1.5 Offline mode

It is possible to run offline but this will require to get the list of external packages downloaded first.

To do so from a script some functions and CLI are embedded in the library.

1. Get the list of requirements.

At the end of any script is it possible to call `page.imports.requirements` to get the list of all the external packages. This will return the different alias (the npm aliases) used to defined an external package (some JavaScript and CSS pages):

```
page = pk.Page()
page.headers.dev()

page.body.template.style.configs.doc(background="white")
...

print(",".join([r for r in page.imports.requirements]))

epyk_npm.exe install -pkg=promise-polyfill,@popperjs/core,bootstrap,showdown,jquery,
↪accounting,tabulator-tables,moment,chart.js
```

2. Install the packages locally

A CLI is available to install all the packages to a dedicated path:

```
epyk_npm.exe install -pkg=promise-polyfill,@popperjs/core,bootstrap,showdown,jquery,
↪accounting,tabulator-tables,moment,chart.js
```

By default this will download the package and create a statics folder at the root

3. Set a offline mode

Then change the outs definition to set the path of the external packages:

```
page.imports.static_url = "C:\epyks\statics"
page.outs.html_file(name="test.html", options={"split": True, "minify": False, "static_
↪path": page.imports.static_url})
```

In the function `page.outs.html_file` some options are available to split the outputs and change the formatting.

5.2.2 Other use cases

Epyk can be used to do more complicated dashboards with multiple events and interaction wiht the backend server.

5.2.2.1 Dashboards

This one will get data from datareader and return the result to be then display in a pivotTable. To insert those dependencies to the final web page it is only required to call those objects from the ui interfaces.

Thus we can find the below pieces in the code:

```
ticker = page.ui.fields.select(
cpns.select.from_dict(tickers_info), label="Tickers", multiple=True, html_code="ticker_
↪value")
```

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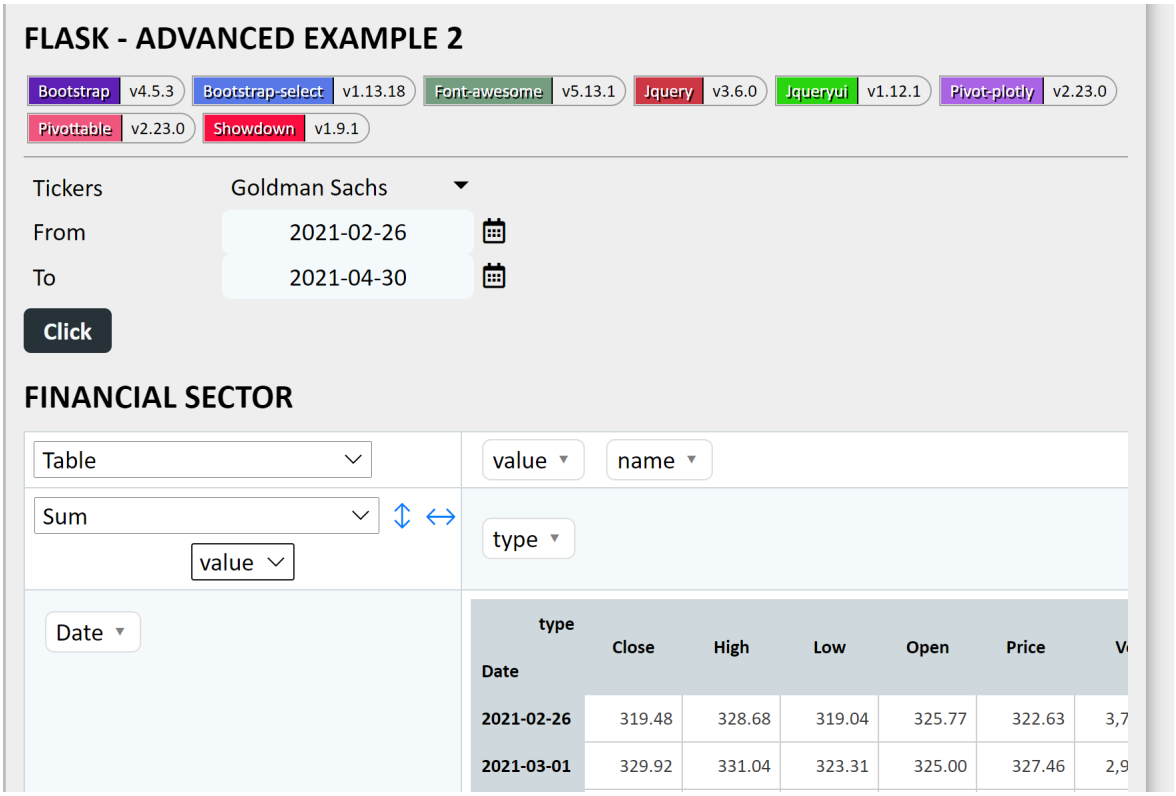
```
....

pivot = page.ui.tables.pivots.plotly()
```



5.2.2.2 E-commerce

5.2.3 Using standard IDE

Epyk can be used in any IDE and it will provide autocompletion to simplify the implementation.

5.2.3.1 Epyk in IDE

5.2.3.1.1 Epyk in Visual Studio Code

5.2.3.1.2 Epyk in PyCharm

5.2.3.2 Epyk with Jupyter

Epyk can be used either with a local instance of Jupyter or directly online from Jypyter Notebooks.

In this section we will provide online examples.

5.2.3.2.1 Start a project

Go to Jupyter and start a Python project.

Add Epyk to your online notebook

```
In [1]: pip install epyk
```

```
Collecting epyk
  Downloading epyk-1.5.15-py2.py3-none-any.whl (3.0 MB)
     |████████████████████████████████| 3.0 MB 4.3 MB/s eta 0:00:
01
Installing collected packages: epyk
Successfully installed epyk-1.5.15
Note: you may need to restart the kernel to use updated packages.
```

Let's start with a simple cell and a slider component:

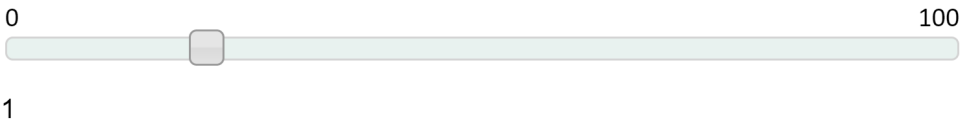
```
import epyk as pk

page = pk.Page()
slider = page.ui.slider()
text = page.ui.text(0)
slider.change([
    text.build(slider.dom.content)
])
page.outs.jupyter()
```

```
In [4]: import epyk as pk

page = pk.Page()
slider = page.ui.slider()
text = page.ui.text(0)
slider.change([
    text.build(slider.dom.content)
])
page.outs.jupyter()
```

Out[4]:



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We can add tables to this notebook:

```
import epyk as pk
from pandas_datareader import data as pddr

data = [
    {"x": "label 1", "y": 23, "y2": 53},
    {"x": "label 2", "y": 10, "y2": 26},
```

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```
]
page = pk.Page()
title = page.ui.title("Data Reader")
s = pddr.DataReader("BAC", 'yahoo', "2021-04-01", "2021-04-20")
page.ui.tables.datatable(s.to_dict(orient="records"), cols=['Close'])
page.outs.jupyter()
```

In [28]:

```
import epyk as pk
from pandas_datareader import data as pddr

data = [
    {"x": "label 1", "y": 23, "y2": 53},
    {"x": "label 2", "y": 10, "y2": 26},
]
page = pk.Page()
title = page.ui.title("Data Reader")
s = pddr.DataReader("BAC", 'yahoo', "2021-04-01", "2021-04-20")
page.ui.tables.datatable(s.to_dict(orient="records"), cols=['Close'])
page.outs.jupyter()
```

Out[28]:

DATA READER

Show 10 entries Search:

Close
38.08000183105469
38.7400016784668
39.150001525878906
39.16999816894531
39.31999969482422

More example should be provided soon in this section.

You can also refer to the previous examples created to show case the concept of Epyk

Caution: Include paths are relative to the file in the document project, not the file in shared content.

5.3 Ready to use examples

This section will details some examples available on Github

It will illustrate some example and provide more explanation concerning the modules and functions used.

More ready to use dashboards are available in the Epyk Gallery

5.3.1 Important features

Only **12** functions are needed to be able to write interactive dashboards.

Table 1: Epyk common features

Scope	Function	Description
Page	theme	Change theme of the page
Page	theme.colors	Get the theme colors
Page	ui	Get all the components in the framework
Page	body	Get the body (main component) of the page on which components will be attached to.
Page	js	Get access to the JavaScript standard features
Page	js.post / js.get	Call a backend REST API
Page	outs	Page output property (html, codepen, Jupyter....)
Component	style.css	Get all the CSS properties
Component	js	Get the component specific js features
Component	dom.content	Get the component value on the UI side
Component	click	Add UI click event on the component
Component	build	Update a component in a UI event function

Note: This is a collaborative framework so not hesitate to share your work to add more examples to this list.

5.3.2 Epyk for beginners

This should a easy start for people not really familiar with either Python or JavaScript but eager to learn and produce results quickly (without to deal with thousand of packages, technologies and concepts).

The below links will propose two approaches according to your appetite:

5.3.3 Statics Page

Those examples are interactive pages working as standalone HTML pages. No server is required to run them.

This is usually the starting point of any web pages.

5.3.3.1 Language comparison

The below line to create a new web page:

```
page = pk.Page()
page.headers.dev()
page.theme = ThemeBlue.BlueGrey()
```

This will add an external JavaScript page online:

```
page.js.customFile("FR.js", r"http://pypl.github.io/PYPL")
```

Add two components:

```
title = page.ui.title("PYPL PopularitY of Programming Language")
items = page.ui.inputs.autocomplete(placeholder="select a language and press enter",␣
↪options={"select": True})
cols_keys = page.ui.lists.drop(html_code="cols_agg_keys")
```

Change the slyde and add event to the list object:

```
cols_keys.style.css.min_height = 20
cols_keys.items_style(style="bullets")
cols_keys.drop()

button = page.ui.buttons.colored("Display")
button.style.css.margin_top = 5

items.options.on_select([
  cols_keys.dom.add(events.value),
  button.dom.events.trigger("click")
])
```

Add the chart component and change the style:

```
line = page.ui.charts.chartJs.line(x_axis="Date", profile=True)
line.options.scales.x_axes().type = "time"
line.options.elements.point.radius = 0
line.options.scales.x_axes().distribution = 'linear'
```

Add a powered component to illustrate the external modules used from Epykt:

```
tag = page.ui.rich.powered()
tag.style.css.margin_bottom = 5
tag.style.css.margin_top = 5

box = page.studio.containers.box()
box.extend([title, tag, items, cols_keys, button, line])
box.style.standard()
```

Add extra events to the components:

```
items.enter([cols_keys.dom.add(items.dom.content), items.dom.empty()])

button.click([
  std.var("graphData").fromArrayToRecord().setVar("records"),
  line.build(std.var("records"), options={"y_columns": cols_keys.dom.content, "x_axis":
↪"Date"})
])
```

Run some functions when the page is loaded in the browser:

```
page.body.onReady([items.js.source(std.var("graphData")[0])])
```

This example is available here

More example of the templates on Github

5.3.3.2 COVID Dashboard

This will create the page object and add a predefined configuration to the `page.body`:

```
page = Report()
page.theme = ThemeBlue.BlueGrey()
```

Get the external data from a URL directly:

```
data = page.py.requests.csv(data_urls.COUNTRY_WISE_COVID)
```

Add components to the page:

```
title = page.ui.title("Country wise COVID")
button_all = page.ui.button("All")
button_all.style.css.margin_top = 5
button_clear = page.ui.button("Clear")
```

Change the CSS style of the button:

```
button_clear.style.css.margin_top = 5
button_clear.style.css.margin_left = 5

cols_keys = page.ui.panels.filters(html_code="data_filters", options={"max_height": 90})
cols_keys.style.css.min_height = 20
```

Add a autocomplete input component and set an event when enter is pressed:

```
items = page.ui.inputs.autocomplete(placeholder="select a country", options={"select":␣
↪True})
items.enter([cols_keys.dom.add(items.dom.content, category='Country/Region'), items.dom.
↪empty()])

button = page.ui.button("Show")
button.style.css.margin_top = 5
```

Add component specific options, in this case it is an event when selected:

```
items.options.on_select([
  cols_keys.dom.add(events.value, category='Country/Region'),
  button.dom.events.trigger("click")
])
```

Add other components to the page:

```
bar = page.ui.charts.chartJs.bar([], ['Confirmed', 'Deaths', 'Recovered'], 'Country/
↪Region')
bar.options.scales.y_axis().ticks.toNumber()

ref = page.ui.texts.references.website(author="rsharankumar", name="Learn Data Science␣
↪in 100Days", site="github",
                                       url="https://github.com/rsharankumar/Learn_Data_
↪Science_in_100Days")

box = page.studio.containers.box()
```

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```
box.extend([title, items, page.ui.div([button_all, button_clear]), cols_keys, button,␣
↪bar, ref])
box.style.standard()

grp = page.data.js.record(std.var("covidData", global_scope=True)).filterGroup("aggData")
```

Add events on the button and button_all object

```
button.click([
  page.js.console.log(cols_keys.dom.content),
  bar.build(grp.match(cols_keys.dom.content).group().sumBy(['Confirmed', 'Deaths',
↪'Recovered'], ['Country/Region']))
])

countries = set()
for rec in data:
  countries.add(rec['Country/Region'])

button_all.click([
  cols_keys.dom.clear(), cols_keys.dom.add(list(countries), category='Country/Region',␣
↪no_duplicate=False)])
button_clear.click([cols_keys.dom.clear()])
```

This example is available here

More example of the templates on Github

5.3.3.3 TESLA Shares

This is another example of interactive report running without server.

All data are extracted on the Python side and the page will be built based on the data retrieved

This will create the page object and add a predefined configuration to the `page.body`:

```
page = Report()
page.theme = ThemeBlue.BlueGrey()
```

Add components to the page:

```
from_dt = page.ui.fields.date(value=None, html_code="from_date", label="From")
to_dt = page.ui.fields.date(value=None, html_code="to_date", label="To")
button = page.ui.buttons.colored("Update")
text = page.ui.calendars.pill("1Y", group="chart_time")
text_6m = page.ui.calendars.pill("6M", group="chart_time")
text_2m = page.ui.calendars.pill("2M", group="chart_time")
text_1m = page.ui.calendars.pill("1M", group="chart_time")
text_all = page.ui.calendars.pill("All", group="chart_time")
title = page.ui.title("Tesla Share Price")
buttons = page.ui.div([text, text_6m, text_2m, text_1m, text_all])

chart = page.ui.charts.chartJs.line([], y_columns=columns, x_axis='Date')
```

Set some specific ChartJs options:

```
chart.options.scales.y_axis().ticks.scale(1000)
chart.options.scales.y_axis().add_label("Stock Price (USD)")
chart.options.scales.x_axes().add_label("Date")
chart.options.tooltips.callbacks.labelCurrency("$")
```

Load the records on the JavaScript side and create a filter group to be able to apply transformations:

```
grp = page.data.js.record(records).filterGroup("aggData")
```

Add events:

```
text.click([from_dt.input.build(text.dom.content), button.dom.events.trigger("click")])
text_6m.click([from_dt.input.build(text_6m.dom.content), button.dom.events.trigger("click
↪")])
text_2m.click([from_dt.input.build(text_2m.dom.content), button.dom.events.trigger("click
↪")])
text_1m.click([from_dt.input.build(text_1m.dom.content), button.dom.events.trigger("click
↪")])
text_all.click([from_dt.input.build(records[0]["Date"]), chart.build(grp)])

tag = page.ui.rich.powered()
tag.style.css.margin_bottom = 5
tag.style.css.margin_top = 5

box = page.studio.containers.box()
box.extend([
  title, from_dt, to_dt, button, page.ui.layouts.hr(margins=5), buttons, chart,
  page.ui.layouts.hr().css({"margin-top": "20px"}), tag])
box.style.configs.doc(background="white")

button.click([
  text.dom.classList.select(False),
  text_all.dom.classList.select(False),
  text_2m.dom.classList.select(False),
  text_1m.dom.classList.select(False),
  text_6m.dom.classList.select(False),
```

Use the group to be able to filter on values defined in the components on the UI:

```
chart.build(grp.sup("Date", from_dt.dom.content).inf("Date", to_dt.dom.content).group().
↪sumBy(columns, ['Date']))
  ])
```

This example is available here

More example of the templates on Github

5.3.3.4 Pandas example

Simple dashboard using interactive components and Pandas.

This will create the page object:

```
page = pk.Page()
```

Add component and change the style of the body:

```
page.ui.title("Pandas tutorial #1")
page.ui.texts.references.github("https://github.com/PatrikHlobil/Pandas-Bokeh")
template = page.body.add_template(defined_style="doc")
template.style.css.background = page.theme.greys[0]
page.ui.titles.subtitle("Google versus Apple")
page.ui.charts.apex.line(df.to_dict(orient="records"), y_columns=["Google", "Apple"], x_
↪axis="Date")
```

Create a line Chart from a DataFrame:

```
df = pd.DataFrame({"Animal": ["Mouse", "Rabbit", "Dog", "Tiger", "Elefant", "Wale"],
                   "Weight [g]": [19, 3000, 40000, 200000, 6000000, 50000000]})

line = page.ui.charts.apex.line(df.to_dict(orient="records"), y_columns=["Weight [g]"],␣
↪x_axis="Animal")
line.options.xaxis.title.text = "Animals"
line.options.yaxis.title.text = "Weight"
```

Create a scatter Chart from a DataFrame:

```
scatter = page.ui.charts.apex.scatter(df.to_dict(orient="records"), y_columns=["Weight␣
↪[g]"], x_axis="Animal")
scatter.options.xaxis.title.text = "Animals"
scatter.options.yaxis.title.text = "Weight"
scatter.options.yaxis.labels.formatters.scale(1000000)
page.ui.row([line, scatter])

data = {
    'fruits': ['Apples', 'Pears', 'Nectarines', 'Plums', 'Grapes', 'Strawberries'],
    '2015': [2, 1, 4, 3, 2, 4],
    '2016': [5, 3, 3, 2, 4, 6],
    '2017': [3, 2, 4, 4, 5, 3]
}
df = pd.DataFrame(data)
```

Create a bar Chart from a DataFrame:

```
page.ui.titles.subtitle("Fruit price per year")
bar = page.ui.charts.apex.bar(df.to_dict(orient="records"), y_columns=["2015", "2016",
↪"2017"], x_axis="fruits")
bar.colors(["blue", "green", "orange"])

page.ui.layouts.hr()
page.ui.titles.subtitle("Report powered by")
page.ui.rich.powered()
```

This example is available here

More example of the templates on Github

5.3.3.5 Advanced Dashboard

The below will illustrate an advanced web page without server.

This will create the page object:

```
page = pk.Page()
#page.theme.color_palette("brewer.PuBu8")
template = page.body.add_template(defined_style="doc")
template.style.css.background = page.theme.greys[0]
```

Add UI components to the page:

```
page.ui.title("Pandas tutorial #5")
page.ui.texts.references.website(url="https://towardsdatascience.com/data-visualization-
↪with-bokeh-in-python-part-ii-interactions-a4cf994e2512")
source_data = "https://raw.githubusercontent.com/WillKoehrsen/Bokeh-Python-Visualization/
↪master/interactive/data/complete_flights.csv"

df = pd.DataFrame(page.py.requests.csv(source_data, store_location=r"C:\tmps"))
df["dep_delay"] = pd.to_numeric(df["dep_delay"], downcast="float")
df["distance"] = pd.to_numeric(df["distance"], downcast="float")
agg_df = df.groupby(["name", "month", "distance"])["dep_delay"].sum()
agg_df = agg_df.reset_index()

max_value = float(df["distance"].max())
checks = page.ui.lists.checks(list(df["name"].unique()))
dist = page.ui.fields.static("[0, %s]" % max_value, label="Min, Max distance")
slider = page.ui.sliders.range([0, max_value], maximum=max_value)

chart = page.ui.charts.chartJs.bar(y_columns=["dep_delay"], x_axis="month")
table = page.ui.table(rows=["name", "month", "distance"], cols=["dep_delay"])
table.config.pagination = "local"
table.config.paginationSize = 10

pie = page.ui.charts.chartJs.pie(y_columns=["dep_delay"], x_axis="name")
pie_count = page.ui.charts.chartJs.pie(y_columns=["count"], x_axis="name")
```

Create data transformation groups for the data loaded from dataframes:

```
grp = page.data.js.record(agg_df.to_dict(orient="records")).filterGroup("aggData")
grp2 = page.data.js.record(agg_df.to_dict(orient="records")).filterGroup("aggData2")

update_button = page.ui.buttons.colored("update")

row = page.ui.row([[checks, update_button], chart], position="top")
row.set_size_cols(4)

total_delay = page.ui.titles.subtitle("Total Delay")
count_delay = page.ui.titles.subtitle("Count Delay")
```

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```
page.ui.row([[total_delay, pie], [count_delay, pie_count]], position="top")

toggle = page.ui.buttons.toggle({'on': "More than 3 hours", 'off': 'All delays'}, label=
↪"Delay Type",)

hamburger = page.ui.panels.hamburger([dist, slider, toggle], title="Details")
table.move()
```

Add an event to select the data to be used in the components:

```
toggle.input.click([
  page.js.if_(
    toggle.input.dom.content.isTrue(), [
      chart.build(grp.includes("name", checks.dom.content, empty_all=False).sup("dep_
↪delay", 180).sup("distance", slider.dom.min_select).inf("distance", slider.dom.max_
↪select).group().sumBy(["dep_delay"], ["month"], cast_vals=True)),
      table.build(grp.includes("name", checks.dom.content, empty_all=False).sup("dep_
↪delay", 180).sup("distance", slider.dom.min_select).inf("distance", slider.dom.max_
↪select)),
      pie.build(grp.includes("name", checks.dom.content, empty_all=False).sup("distance",
↪ slider.dom.min_select).inf("distance", slider.dom.max_select).group().sumBy(["dep_
↪delay"], ["name"], cast_vals=True)),
      pie_count.build(grp.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select).group().
↪countBy(["name"]))
    ]).else_([
      chart.build(grp2.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select).group().
↪sumBy(["dep_delay"], ["month"], cast_vals=True)),
      table.build(grp2.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select)),
      pie.build(grp2.includes("name", checks.dom.content, empty_all=False).sup("distance
↪", slider.dom.min_select).inf("distance", slider.dom.max_select).group().sumBy(["dep_
↪delay"], ["name"], cast_vals=True)),
      pie_count.build(grp2.includes("name", checks.dom.content, empty_all=False).sup(
↪"distance", slider.dom.min_select).inf("distance", slider.dom.max_select).group().
↪countBy(["name"]))
  ]),
  dist.input.build(slider.dom.content)
])

# Reuse the code generated by the toggle click for the below components.
update_button.click(toggle.input.event_fnc("click"))
slider.change(toggle.input.event_fnc("click"))
```

Add extra components to the page:

```
page.ui.layouts.hr()
page.ui.titles.subtitle("Report powered by")
page.ui.rich.powered()
```

This example is available here

More example of the templates on Github

5.3.4 Web server integration

5.3.4.1 Flask

5.3.4.1.1 Show case report

This is the demo page available from the below command line:

```
epyk.exe demo
epyk.exe transpile
```

Python script will have the below sections.

This will create the page object and add a predefined configuration to the `page.body`:

```
page = pk.Page()
page.headers.dev()
page.body.template.style.configs.doc(background="white")
```

Add the 3 components to the page (they will be automatically added to the body):

```
table = page.ui.table(mocks.popularity_2020)
table.options.paginationSize = 10

toggle = page.ui.toggle({"on": "Trend", "off": "Share"})
bar = page.ui.charts.bar(mocks.popularity_2020, y_columns=["Share"], x_axis="Language")
```

Create a JavaScript click event on the toggle component:

```
toggle.click([
  # Store the variable to myData on the JavaScript side
```

Then use the standard library in order to use core JavaScript features like: - Creating / updating a variable:

```
pk.std.var("myData", sorted(mocks.popularity_2020, key=lambda k: k['Language'])),
# Use the standard build and dom.content to respectively update and get the component␣
↪value
```

- Defining a if / else statement:

```
  pk.expr.if_(toggle.input.dom.content.toStr(), [
    # Use the variable to update the chart
    bar.build(pk.std.var("myData"), options={"y_columns": ["Trend"]})
  ]).else_([
    bar.build(pk.std.var("myData"), options={"y_columns": ["Share"]})
  ])
])
```

The examples using a Flask app is available here

More example of the templates on Github

5.3.4.1.2 Simple Workflow

This is a more complex example illustrating how to use workflow components and tabs in a page.

This will create the page object and add a predefined configuration to the body:

```
page = pk.Page()
page.body.template.style.configs.doc(background="white")
```

Add a stepper component and put it in a container for the display:

```
stepper = page.ui.steppers.arrow([
  {"value": 'test 1', "status": 'pending', 'label': 'test'},
  {"value": 'test 2'},
  {"value": 'test 3', "status": 'waiting'}],
  options={"media": False, "line": False})
page.ui.div(stepper, align="center")
```

Attach to this component a JavaScript event. This will only display a JavaScript standard alert:

```
stepper[1].click([
  page.js.alert("This ")
])
```

Note: Components and event can be added anywhere in the page. The page.components variable will keep the order when it will transpile the script.

Add a tabs and button components:

```
tabs = page.ui.panels.tabs()
tabs.add_panel("Status 1", "Description for status 1", selected=True)
tabs.add_panel("Status 2", "Description for status 2")
tabs.add_panel("Status 3", "Description for status 3")

btn1 = page.ui.button("Previous", icon="fas fa-caret-left")
btn1.style.css.padding_h = 5
```

Add a click event to the button:

```
btn1.click([
  stepper.dom[pk.std.var("state")].arrow(),
  stepper.dom[pk.std.var("state")].waiting(),
  stepper.dom[pk.std.var("state")].text("Waiting", color="black"),
  stepper.dom[pk.std.var("state")].css({"border-bottom": "1px solid white", "padding-
↪bottom": "5px"}),
  pk.std.var("state", pk.std.maths.max(pk.std.parseInt(pk.std.var("state")) - 1, 0),␣
↪global_scope=True),
  stepper.dom[pk.std.var("state")].css({"border-bottom": "1px solid green", "padding-
↪bottom": "5px"}),
  stepper.dom[pk.std.var("state")].circle(),
  stepper.dom[pk.std.var("state")].pending(),
  stepper.dom[pk.std.var("state")].text("Pending", color="black"),
  tabs.dom[pk.std.var("state")].select(),
```

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```
])

btn2 = page.ui.button("Next", icon="fas fa-caret-right")
btn2.style.css.padding_h = 5
btn2.click([
```

Use the DOM and JS properties in the click events since this will be run by the browser once the code will be transpiled to JavaScript. Python will only perform some sanity checks on the pre defined features:

```
  stepper.dom[pk.std.var("state")].success(),
  stepper.dom[pk.std.var("state")].arrow(),
  stepper.dom[pk.std.var("state")].text("Completed", color="black"),
  stepper.dom[pk.std.var("state")].css({"border-bottom": "1px solid white", "padding-
↪bottom": "5px"}),
  pk.std.var("state", pk.std.maths.min(pk.std.parseInt(pk.std.var("state")) + 1, 2),␣
↪global_scope=True),
  stepper.dom[pk.std.var("state")].css({"border-bottom": "1px solid green", "padding-
↪bottom": "5px"}),
  stepper.dom[pk.std.var("state")].circle(),
  stepper.dom[pk.std.var("state")].pending(),
  stepper.dom[pk.std.var("state")].text("Pending", color="black"),
  tabs.dom[pk.std.var("state")].select(),
  page.js.console.log(tabs.dom[pk.std.var("state")].innerText())
])
```

Create a variable when the browser will load the page:

```
page.body.onReady([
  pk.std.var("state", 0, global_scope=True)
])
```

This example is available here

More example of the templates on Github

5.3.4.2 Fast API

5.3.4.2.1 Log Viewer

This will create the page object and add a predefined configuration to the `page.body`:

```
page = pk.Page()
template = page.body.add_template(defined_style="margins")
template.style.css.background = "white"
```

Add a date object:

```
dt = page.ui.texts.date("Y-0", html_code='date_from', width=(100, "%"))
```

Create a navbar with components:

```
page.ui.navigation.shortcut([
  page.ui.layouts.hr(),
  page.ui.titles.title("Dates"),
  page.ui.titles.bold("From:", align="left"),
  dt,
  page.ui.titles.bold("To:", align="left"),
  page.ui.texts.date(html_code='date_to', width=(100, "%"), options={"date_from_js": "COB
↪"}),
  page.ui.layouts.hr(),
  page.ui.titles.title("Actions"),
```

Use `html_Code` on the components in order to get this alias when they are passed to services:

```
page.ui.input("GS", html_code="input"),
page.ui.buttons.refresh("Load", html_code="button"),
page.ui.icons.date(),
page.ui.div([
  page.ui.icons.awesome("far fa-file-pdf", width=15),
  page.ui.icons.awesome("fas fa-at", width=15),
]).css({"bottom": '10px', 'position': 'absolute', 'display': 'block'})
], size=(100, 'px'), options={"position": 'left'})

page.body.style.css.margin_left = 10
content = ""
title = page.ui.title(content, options={"markdown": True})
table = page.ui.tables.tabulators.figures(
  rows=["Date", "Name"], cols=["Low", "High", 'Open', 'Close', 'Volume', 'Adj Close'])

footer = page.ui.navigation.footer('@Data from pandas_datareader using yahoo as source.')
```

Create a `click` event on the page by finding the component from the `page.components` dictionary based on it `html_code`:

```
page.components['button'].click([
  page.components["button"].icon.dom.spin(True),
```

Define an AJAX post to an underlying service:

```
page.js.post("/viewer", {"button": 'Data 1'}, components=[page.components["input"],
```

Update the components:

```
page.components['date_from'], page.components['date_to']]).onSuccess([
title.build(pk.events.data["title"]),
table.build(pk.events.data["table"]),
page.components["button"].icon.dom.spin(False)
  ]),
])
page.components["input"].enter([page.components['button'].dom.events.trigger("click")])
footer.style.css.padding_left = 110
```

This example is available here

More example of the templates on Github

5.3.4.2.2 Webscraping

This will focus on the UI section of the template used to get data from an external website.

This will create the page object and add a predefined configuration to the `page.body`:

```
page = pk.Page()
page.body.template.style.configs.margins()
```

Add a QR Code component with the link of the example:

```
qrcode = page.ui.qrcode("https://github.com/epykure/epyk-templates/blob/master/tutos/
↪onepy/fastapi_webscraping.py")
qrcode.style.css.fixed(bottom=60, right=70)
qrcode.style.css.cursor = "pointer"
qrcode.style.css.z_index = 300
```

Add date components and change the CSS properties:

```
dt_from = page.ui.date(html_code='from', width=(120, "px"))
dt_from.input.style.css.margin_bottom = 10
dt_to = page.ui.date("2021-05-15", html_code='to', width=(120, "px"))
dt_to.input.style.css.margin_bottom = 10
```

Add a button component and change the CSS properties:

```
prices = page.ui.button("Get Prices", icon="fab fa-python")
prices.style.css.padding_left = 10
prices.style.css.padding_right = 10
prices.style.css.color = page.theme.colors[-1]
```

Create a navbar and attach the components to it:

```
bar = page.ui.navbar()
bar.style.css.background = page.theme.colors[-1]
bar.style.css.color = "white"
bar.add(dt_from)
bar.add(dt_to)
bar.add(prices)

page.ui.title("Eurostar average prices")
line = page.ui.charts.chartJs.line(y_columns=['standard', 'premier', 'business'], x_axis=
↪'full_date')
bar = page.ui.charts.chartJs.bar(y_columns=['average'], x_axis='category')
row = page.ui.row([line, bar])
row.set_size_cols(8)
```

Create a event when button is clicked:

```
prices.click([
  prices.icon.dom.spin(True),
```

Link this example to an entry point on the server:

```
  page.js.post("/web_scrapping", components=[dt_from, dt_to]).onSuccess([
    line.build(pk.events.data["prices"]),
    bar.build(pk.events.data["average"]),
    prices.icon.dom.spin(False)
  ])
])
```

This example is available here

More example of the templates on Github

5.3.4.2.3 Advanced Documentation viewer

This example is a bit more sophisticated as it will use a FAST Api server and a database in order to store version of the documentation.

Database structure will be defined when the server will start.

First create the page object:

```
page = pk.Page()
```

Create a bespoke CSS inline object:

```
css = pk.CssInline()
css.margin_bottom = 5
css.margin_left = 5
css.important(["margin_bottom", "margin_left"])
```

Create an autocomplete input components and change some options:

```
autocomp = page.ui.inputs.autocomplete(placeholder="script name", html_code="name",␣
↪options={"borders": "bottom"})
autocomp.options.select = True
version = page.ui.select(width=(100, 'px'), html_code="selected_version")
```

Add the CSS object to this components with a specific name:

```
version.attr["class"].add(css.to_class("cssTestClass"))
version.options.noneSelectedText = "None"
```

Add components to the page:

```
button = page.ui.buttons.colored("Load")
button.style.css.margin_left = 10
page.ui.navbar(components=[autocomp, version, button])
script = page.ui.text("script name", html_code="script")
script.options.editable = True
script.style.css.bold()
pkg_version = page.ui.text("Version")
pkg_number = page.ui.text("0.0.0", html_code="version")
```

Change css styles and options:

```
pkg_number.options.editable = True
pkg_number.style.css.margin_left = 10
v = page.ui.div([pkg_version, pkg_number], width="auto")
v.style.css.float = "right"
v.style.css.display = "inline-block"
```

Add icon components:

```
i1 = page.ui.icon("fas fa-edit")
i2 = page.ui.icon("fas fa-lock")
i3 = page.ui.icon("fas fa-save")
actions = page.ui.div([i1, i2, i3], width=(20, 'px'))
```

Add CSS style properties using `actions.style.css`:

```
actions.style.css.position = "absolute"
actions.style.css.top = 60
actions.style.css.right = 0
actions.style.css.padding_left = "3px"
actions.style.css.border_radius = "5px 0 0 5px"
actions.style.css.background = page.theme.greys[3]

header = page.ui.div([script, v])
header.style.css.background = page.theme.greys[2]
header.style.css.display = "block"
header.style.css.padding_h = 15

title = page.ui.title("Documentation Viewer", html_code="title")
title.options.editable = True
content = page.ui.rich.markdown(__doc__, html_code="content")
content.options.editable = True

banner = page.ui.text("Editable", width=(75, 'px'))
banner.style.css.background = page.theme.success[1]
banner.style.css.border_radius = "0 0 20px 0"
banner.style.css.padding_h = 10
banner.style.css.font_factor(-2)
banner.style.css.color = page.theme.greys[-1]
banner.style.css.position = "absolute"
banner.style.css.bold()
banner.style.css.top = 0
banner.style.css.left = 0

container = page.ui.div([banner, header, title, content, actions])
container.style.configs.doc(background="white")
container.style.css.position = "relative"
container.style.css.padding_top = 30

updt = page.ui.rich.update(align="right", html_code="last_update")
updt.style.css.italic()
updt.style.css.font_factor(-2)
container.add(updt)
```

Add events to the components:

```
i3.click([
```

Call an underlying service in the FAST API server:

```
page.js.post("/save", components=[banner, script, pkg_number, title, content, updt]).
↪onSuccess([
  page.js.msg.status(),
  updt.refresh()
])])
```

Add click event on to the first icon:

```
i1.click([
```

Change the dom properties using the common JavaScript features `dom.setAttribute`:

```
script.dom.setAttribute("contenteditable", True).r,
pkg_number.dom.setAttribute("contenteditable", True).r,
title.dom.setAttribute("contenteditable", True).r,
content.dom.setAttribute("contenteditable", True).r,
```

Display a temporary message in the page:

```
page.js.msg.text("Components editable"),
```

Update the banner component:

```
banner.build("Editable"),
banner.dom.css({"background": page.theme.success[1], "color": page.theme.greys[-1]})
])
```

In the same way click events are added on the other components:

```
i2.click([
  script.dom.setAttribute("contenteditable", False).r,
  pkg_number.dom.setAttribute("contenteditable", False).r,
  title.dom.setAttribute("contenteditable", False).r,
  content.dom.setAttribute("contenteditable", False).r,
  page.js.msg.text("Components locked"),
  banner.build("Locked"),
  banner.dom.css({"background": page.theme.colors[-1], "color": page.theme.greys[0]})
])

autocomp.enter([
  page.js.post("/versions", components=[autocomp]).onSuccess([
    version.build(pk.events.data["versions"]),
    version.js.val(pk.events.data["selected"]),
    version.js.refresh(),
    page.js.msg.status()
  ])
])

button.click([
  page.js.post("/details", components=[autocomp, version]).onSuccess([
```

(continues on next page)

(continued from previous page)

```
    title.build(pk.events.data["title"]),
    content.build(pk.events.data["content"]),
    script.build(pk.events.data["script"]),
    pkg_number.build(pk.events.data["number"]),
    updt.build(pk.events.data["last_date"]),
  ])
])
```

Add an `body.onReady` to load the autocompletion when the page is ready:

```
page.body.onReady([
  page.js.post("/templates").onSuccess([
    autocomp.js.source(pk.events.data["values"])
  ])
])
```

This example is available here

More example of the templates on Github

5.4 Epyk and full stack development

5.4.1 Documentation

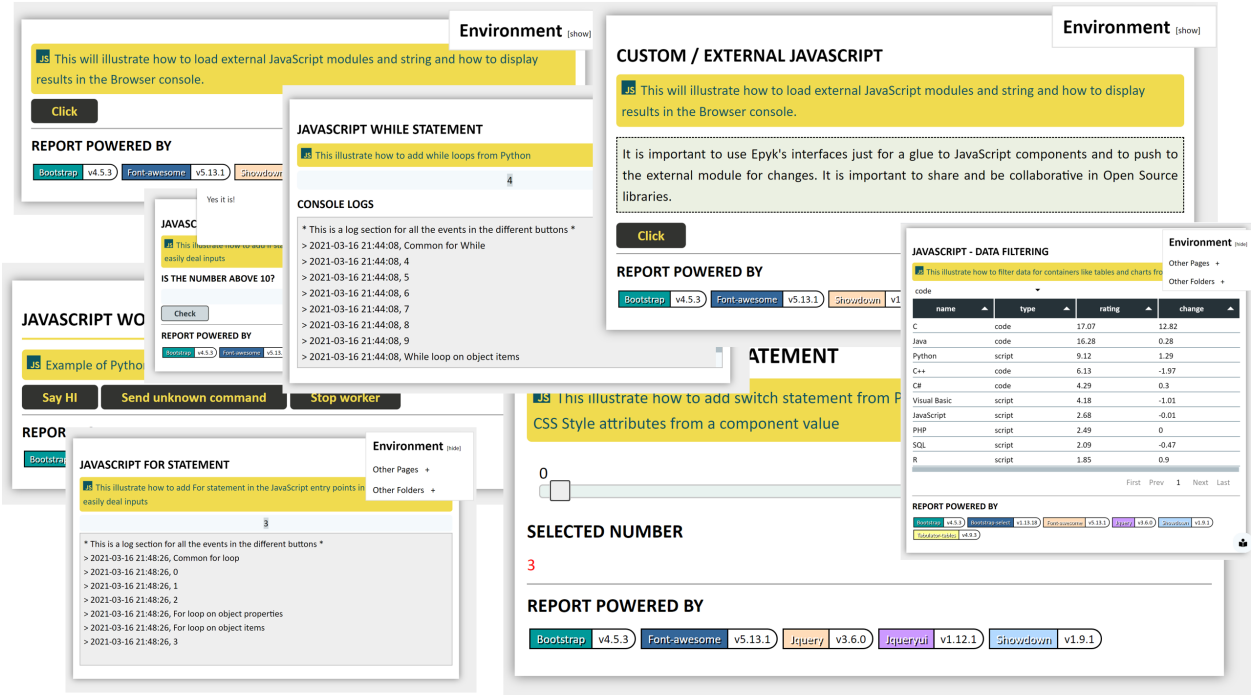
Epyk documentation will point you to the appropriate web concept.

The docstrings will link to either the online precised documentation or to the wrapped package. Epyk's target is to make the link between Python and the web in a transparent manner.

```
def click(self, js_funcs, profile=False, source_event=None, on_ready=False):
  """
  Description:
  ------------
  When a user clicks on a sparkline, a sparklineClick event is generated.
  The event object contains a property called "sparklines" that holds an array of the sparkline objects under
  the mouse at the time of the click.
  For non-composite sparklines, this array will have just one entry.

  Usage::

  Related Pages:

    https://omnipotent.net/jquery.sparkline/#interactive

  Attributes:
  ----------
  :param js_funcs: List | String. Required. Javascript functions.
  :param profile: Boolean | Dictionary. Required. A flag to set the component performance storage.
  :param source_event: String. Required. The source target for the event.
  :param on_ready: Boolean. Required. Specify if the event needs to be trigger when the page is loaded.
  """
```

Also components and entry points are structure to make sure you learn the various concepts of a web page. Thus the keys words `dom`, `console.log`, `InlineCss`, `css properties`, `page.bodt`, `component.onReady()` very popular in web development will be familiar to you as well.

Those concept are illustrated in the local section of the templates Github repo



5.4.2 Profiling

Checking performances in important on the backend but also on the front end side. Epyk will rely on the native features to profile the python and on the JavaScript side it will provide the profile keyword to write log messages to the console (F12 in the browser):

```
def click(self, js_funcs, profile=None, source_event=None, on_ready=False):
```

5.4.3 Styles & Configuration

5.4.3.1 CSS Style

5.4.4 Properties

It is possible to use CSS inline properties or bespoke CSS classes in order to change the display of components. Quite a few examples are available but the easiest is to use `style.css` properties:

```
button = page.ui.buttons.colored("Test")
button.style.css.color = "yellow" # Change the text color
button.style.css.position = "fixed"
button.style.css.bottom = 10 # Default will use px
button.style.css.right = 10 # Default will use px
```

More examples are available in the section *Library extensions*

5.4.5 Virtual classes

There are some shortcuts available to perform common and standard style changes. For example to change a style by putting the mouse hover a component can be done:

```
p = page.ui.texts.paragraph("This is a paragraph", helper="Paragraph helper")
p.style.hover({"color": "red"})
```

Or a bit more complex by doing, it is possible to add a full CSS class structure to a specific component:

```
p = page.ui.texts.paragraph("This is a paragraph", helper="Paragraph helper")
p.style.add_custom_class({"_attrs": {"color": "green"}, "_hover": {"color": "blue"}}, to_
↪component=True)
```

5.4.5.1 CSS effects

It is also possible to use predefined CSS effects and animates:

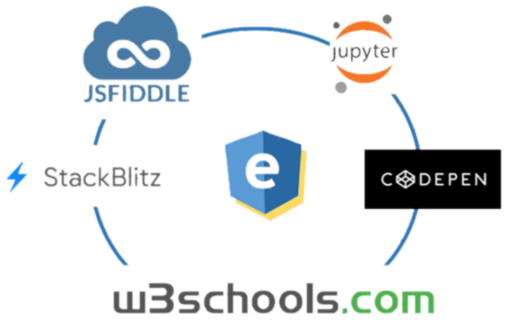
```
title2 = page.ui.titles.title("Epyk in few words", align="center")
title2.style.effects.shiny_text("green")


title1 = page.ui.titles.title("A vast selection of Charts", align="center")
title1.style.effects.down(start=-10)
```

5.4.6 Interactivity & events

5.4.6.1 Component events

5.4.7 Community

Epyk is dedicated to be a bridge to JavaScript. Thus it will provide ways to share pieces of code in both worlds. It is possible to structure your Python components and share them using Pyk files or to transpile a dashboard to then be shared in the popular online editors.



The purpose of this framework is to benefit from both worlds but also to contribute by providing feedbacks to the external libraries

5.4.7.1 To Pyk

5.4.7.2 To Jupyter or JupyterLab

Epyk can be imported to any Notebook. More details will come in this section.

5.4.7.3 To CodePen

The below is a code generated using the codepen outs to illustrate a problem:

```
import epyk as pk

page = pk.Page()

records = {"data": [
      {"name": 'Test', "_children": [
        {"name": 'AAAA', "progress": 767860},
        {"name": 'BBB', "progress": -2877980},
      ]}
    ], "columns": [
      {"title": "Task Name", "field": "name"},
      {"title": "Progress", "field": "progress"},
    ]}

data = [
      {"name": 'Test', "_children": [
        {"name": 'AAAA', "progress": 767860},
        {"name": 'BBB', "progress": -2877980},
      ]}
    ]


table = page.ui.tables.tabulators.hierarchy(data, cols=["name"], rows=["progress"],␣
↪width=(300, 'px'))
table.get_column("name").headerFilter = "input"
page.outs.codepen()
```

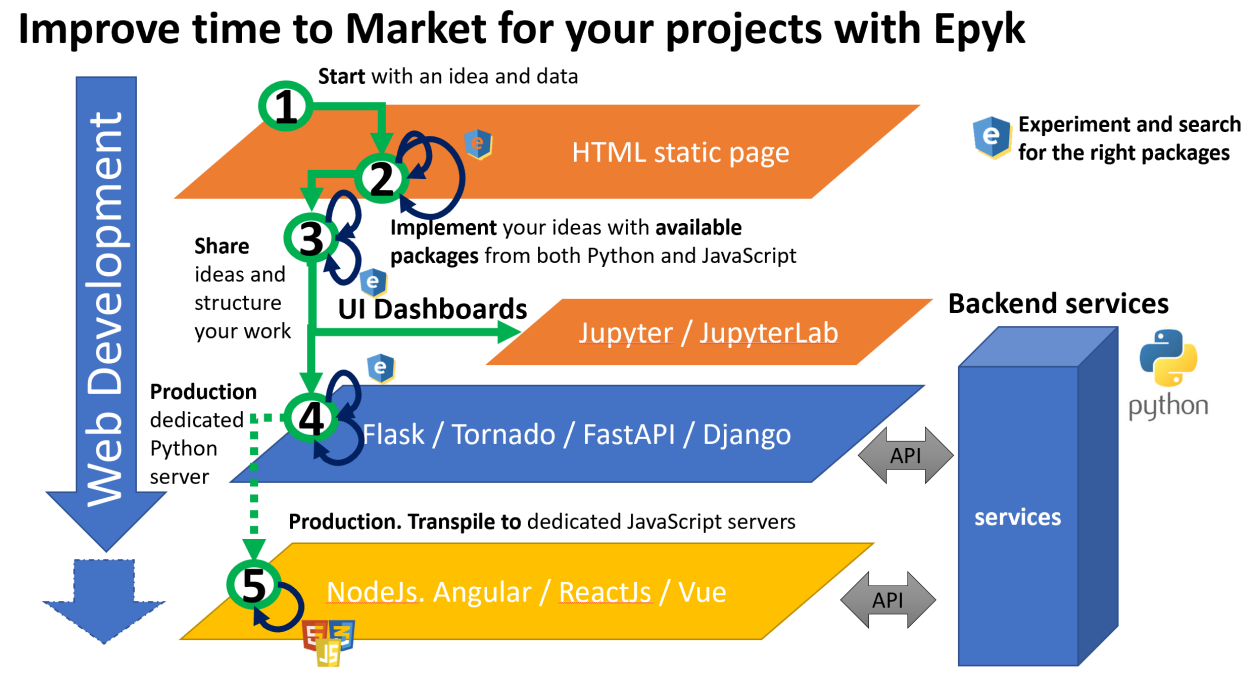
Codepend

name	progress
filter column...	
Parent Node 1	
Child A	767860
Child B	-2877980

5.4.7.4 To W3Try

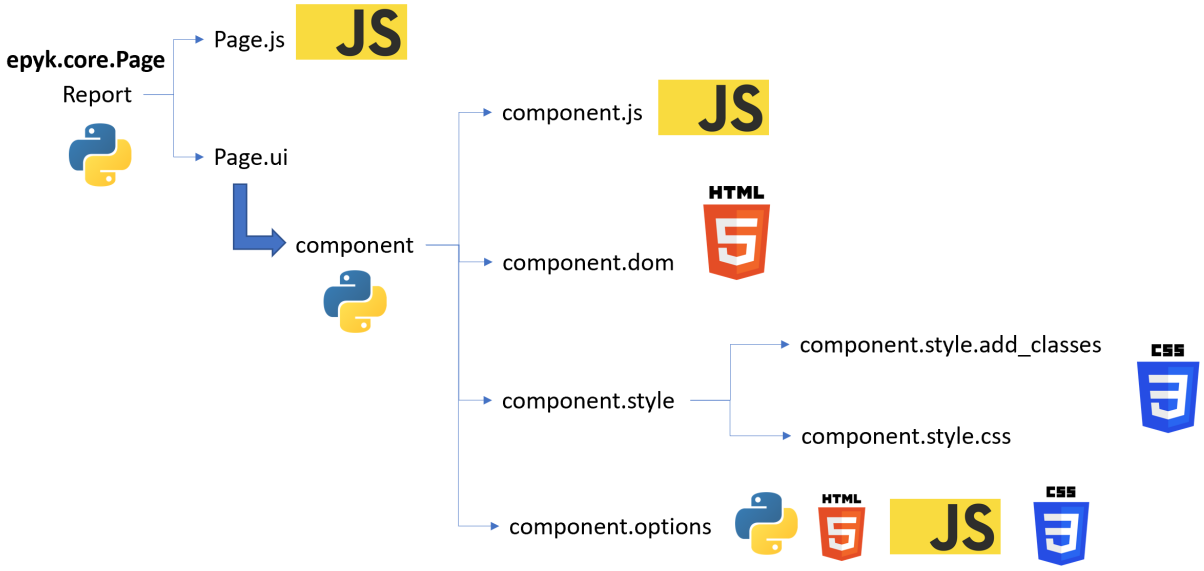
5.5 Design & Architecture

5.5.1 Architecture



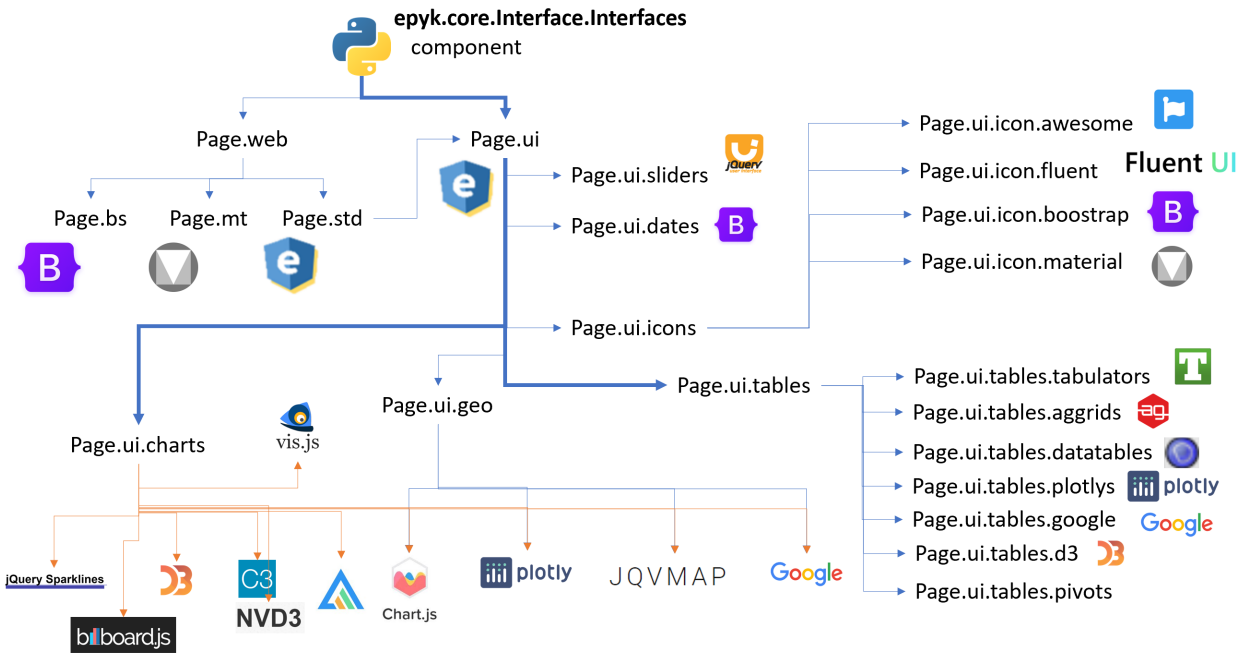
5.5.1.1 Page

From the page object it is possible to get all the entry points



The page object will also have dedicated properties to simplify the link with Python modules.

5.5.1.2 Components

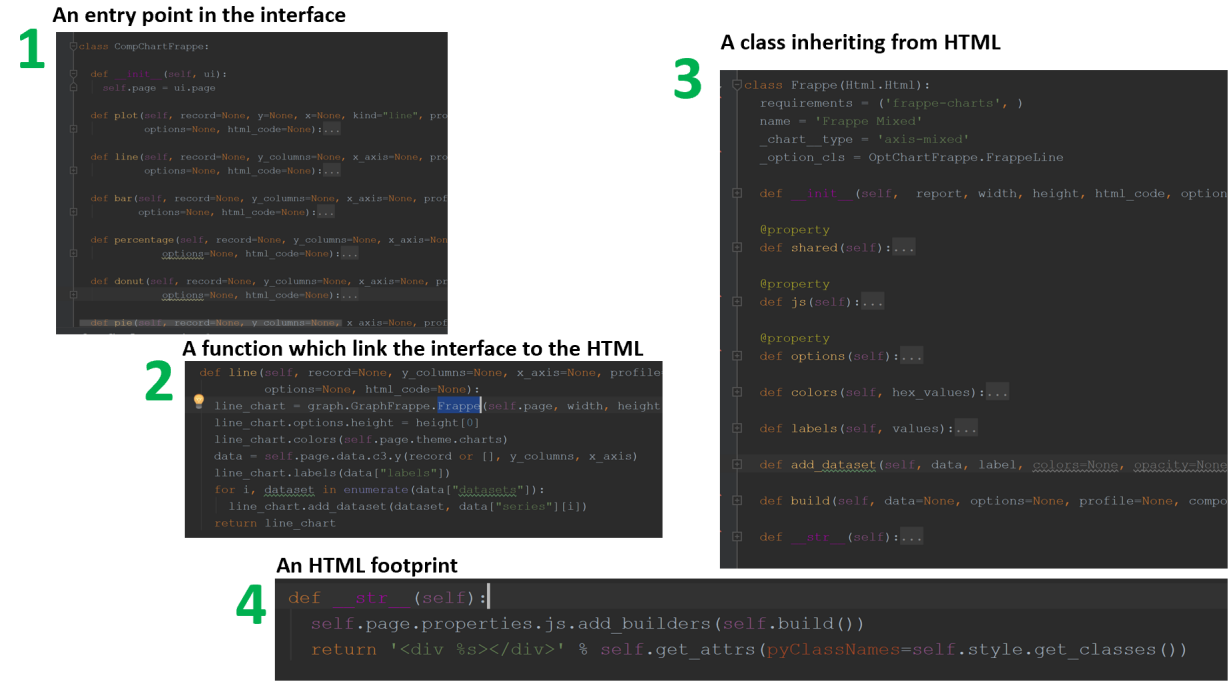


5.5.1.3 HTML Component

The below sections details the work required to add an new HTML component to the framework. Frappe-Charts will be used as reference here:

First the creation of teh key modules for the page object:

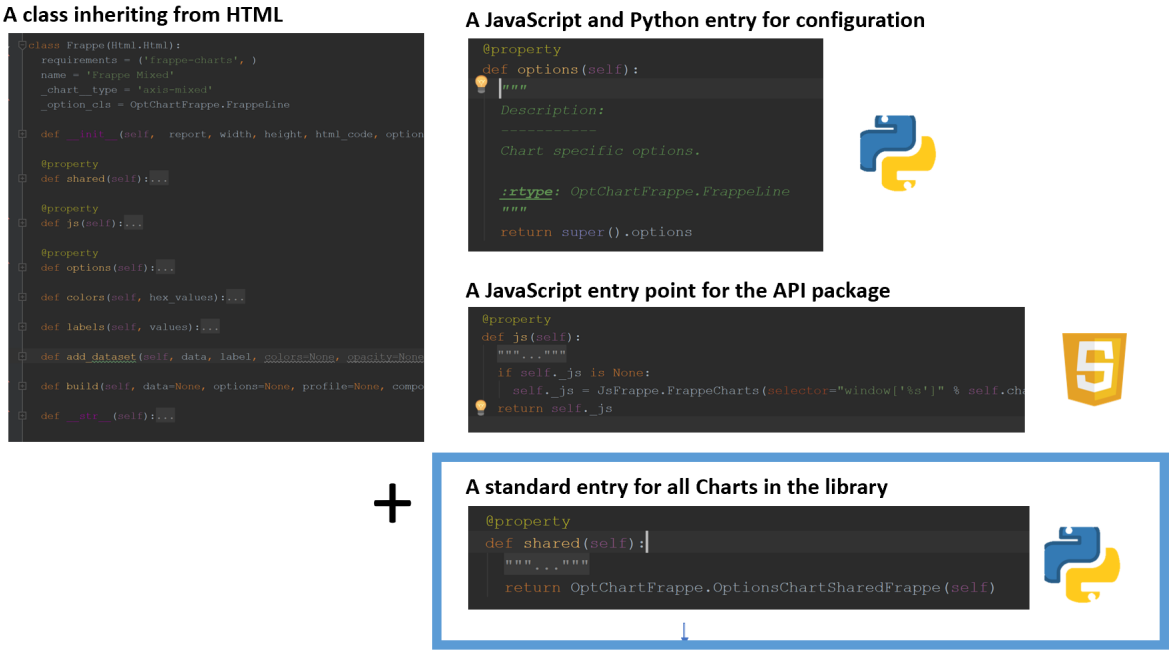
- An interface in the interface component: CompChartsFrappe.py
- An HTML component page: GraphFrappe.py



This will make the component available from the *page.ui* property

After to add interactivity and configuration for this components two extra modules are required:

- A dedicated modules for the component (Js, Py and Css) options: OptChartFrappe.py
- A module to wrap the external library API: JsFrappe.py

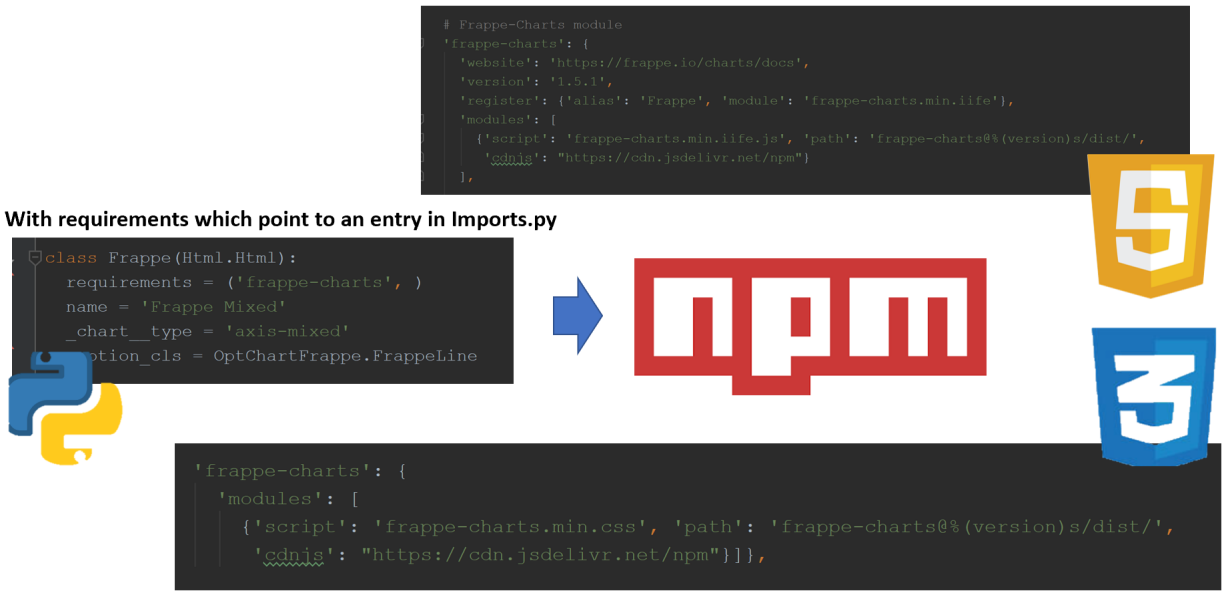


Those modules will have link to the online documentation of the different functions in order to provide further details and examples.

Also most of the functions are exactly the same than the ones defined in the API to simplify the communication between developers.

Then if some external module is required to build the component those are defined from the npm alias in the requirements class variable.

This will point to two references in the *Imports.py* module one for the JavaScript and the other one for the CSS. Imports.py is the module used to add the external files to the page. It will manage the dependencies between configurations and the version of the packages.



5.5.2 Common API to easy the migration

The spirit of the framework is to benefit from the rich ecosystem but to not be attached to one library or framework. Thus there is a common API for components to easy this transition.

For example for charts:

```
import epyk as pk

url_data = "https://raw.githubusercontent.com/vega/datalib/master/test/data/stocks.csv"

page = pk.Page()

data = page.py.requests.csv(url_data)
formatted_data = []
agg_data = {}
for rec in data:
    agg_data.setdefault(rec["date"], {})[rec["symbol"]] = float(rec["price"])
    agg_data[rec["date"]]["date"] = rec["date"]
chart = page.ui.charts.chartJs.bar(list(agg_data.values()), y_columns=["MSFT", "AMZN",
↪"IBM"], x_axis="date")
page.outs.jupyter()
```

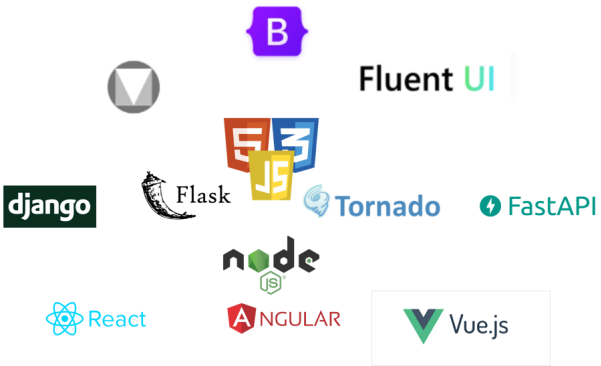
Note: Specific `.options` or `.js` functions will not be necessarily compatible between libraries. We are introducing the concept of *.shared* properties to solve this issue.

5.5.3 Collaborative platform

The main target of this library is to allow a smooth move from Python to JavaScript but also for the JavaScript developers to bring their knowledge in order to provide better integration and performances to the transpiled results.

By using Epyk and improving this layer, Python developers will be able to test JavaScript code and provide quick feedbacks. In the same way they will be able to produce web results which could be easily integrated to the IT stack.

To achieve this Epyk is implemented to be compatible with the current UI libraries and the most popular framework.

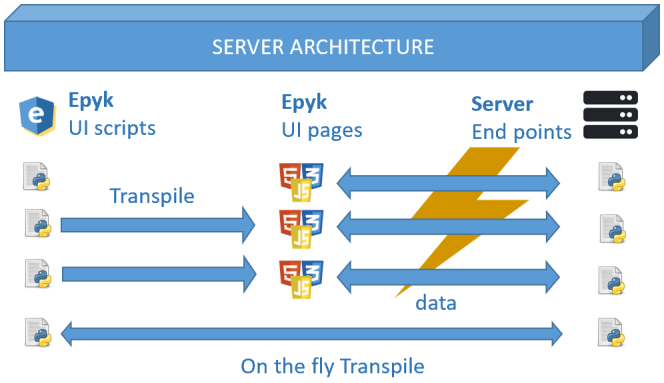


Integration to JavaScript web framework is still in progress on this.

5.5.4 Full stack development

Epyk ensure a full stack development and also it will guarantee that your front end will benefit from the community updates. Indeed this library is used for producing a configurable UI build from pre defined JavaScript and CSS definition, it the structure or the code as changed on the component side a simple update of the library and a new transpiling of the script will render better web pages.

It will also help you upgrading your packages in a safe manner. Indeed by using the *shared* property, this will guarantee that despite the changes performed in the packages this will remain unchanged.



5.5.5 Data Driven Design Architecture

This is the main concept which lead the implementation of Epyk. We realised that most of the users were familiar with Python hence were able to write algorithms but they were always blocked to promote and share their work easily.

Quite a few great proprietary platform (Tableau, Power BI, DataIku…) offer this service but we wanted to have something free and flexible enought to go to the last stage which is the integration to existing web Ecosystems.

5.5.6 Other related topics

5.5.6.1 A design for the web

Epyk is fully integrated to the web ecosystem and it is main target is to simplify the step from Python.

Python is becoming a very popular language nowadays and it is sometimes quite complicated to move to other technologies.

Epyk should be the right perfect library to deal with concept easily but also thanks to the documentation, structure and functions names to learn and get the good practices.

5.5.6.1.1 Be an actor

By using Epyk, it will be possible to create rich and interactive web content from the most popular libraries but it will also allow you to use those UI tools to communicate, provide feedback and ask for new features. Thus you will be able to point a bug or mention a nice feature missing a library.

Ask a question in Stack overflow with Codepen examples

Epyk structure will allow you to isolate a component or a feature, generate the web content to the desired formant and then check the result (and potentially adapt).

For example the below Stack overflow request will be there to ask for a change or details on a recently introduced Charting library:

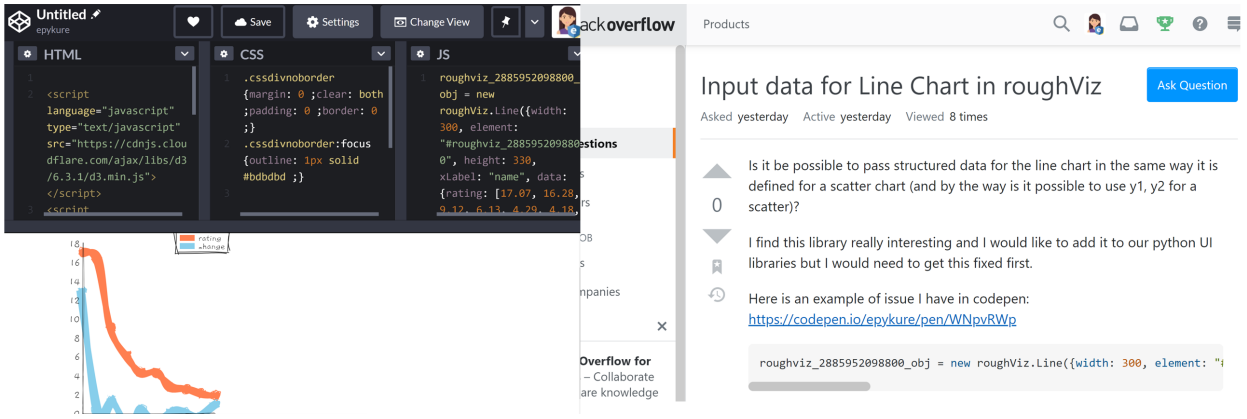
1. Isolate the component and illustrate the problem in a report:

```
import epyk as pk

page = pk.Page()
languages = [
    {"name": 'C', 'type': 'code', 'rating': 17.07, 'change': 12.82},
    {"name": 'Java', 'type': 'code', 'rating': 16.28, 'change': 0.28},
    {"name": 'Python', 'type': 'script', 'rating': 9.12, 'change': 1.29},
    {"name": 'C++', 'type': 'code', 'rating': 6.13, 'change': -1.97},
    {"name": 'C#', 'type': 'code', 'rating': 4.29, 'change': 0.3},
    {"name": 'Visual Basic', 'type': 'script', 'rating': 4.18, 'change': -1.01},
    {"name": 'JavaScript', 'type': 'script', 'rating': 2.68, 'change': -0.01},
    {"name": 'PHP', 'type': 'script', 'rating': 2.49, 'change': 0},
    {"name": 'SQL', 'type': 'script', 'rating': 2.09, 'change': -0.47},
    {"name": 'R', 'type': 'script', 'rating': 1.85, 'change': 0.90},
  ]
b = page.ui.charts.roughviz.plot(languages, y=["rating", 'change'], x='name',␣
↪width=300)
```

2. Use a specific outputs to generate Codepen files:

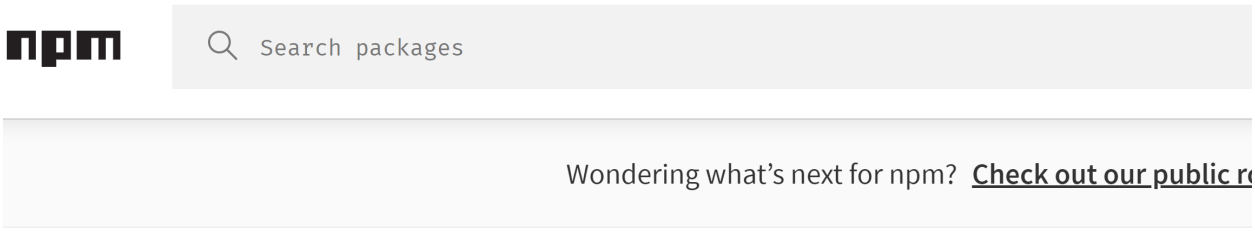
```
page.outs.codepen()
```

This will create to the root directory an output files with 3 files corresponding to the different Codepen boxes. Copy paste the content, save your work and create a question in Stack Overflow.



2. Add extra feature to enrich an existing library

In the same way it is possible to create and propose change to existing libraries. For example for Tabulator we create a module dedicated to enrich the number of existing Formatter, Aggregator and Mutator to ease the configuration for anybody using this library.



All Codepen source codes used to create the stack overflow requests are available here

5.5.6.2 Supported Libraries and Frameworks

A toolbox to multiple external libraries. Epyk will interface with the most popular JavaScript and Css libraries from the vast number of components.

This will be fully transparent all_components will include to the page their external resources.

5.5.6.3 127 Libraries

- accounting, version 0.4.1
- qrcodejs, version 1.0.0
- underscore, version 1.12.0
- promise-polyfill, version 8.2.0
- url-search-params, version 1.1.0
- babel-polyfill, version 7.4.4

- bootstrap, version 4.6.0
- moment, version 2.29.1
- ag-grid-community, version 25.0.1
- tabulator-tables, version 4.9.3
- tabulator-inputs, version
- tabulator-drop, version
- tabulator-mutators-inputs, version
- editors-inputs, version
- editors-dates, version
- editors-selects, version
- tabulator-icons, version
- tabulator-numbers, version
- font-awesome, version 5.13.1
- **`datatables, version 1.10.19 <>`_**
- datatables-buttons, version 1.6.1
- datatables-select, version 1.3.1
- datatables-scroller, version 2.0.1
- datatables-searchPanes, version 1.0.1
- datatables-responsive, version 2.2.3
- datatables-keytable, version 2.5.1
- datatables-autoFill, version 2.1.0
- datatables-rows-group, version 1.0.0
- datatables-row-group, version 1.1.1
- datatables-fixed-columns, version 3.2.2
- datatables-fixed-header, version 3.1.3
- datatables-export, version 1.5.2
- datatables-col-order, version 1.5.1
- jszip, version 3.5.0
- json-formatter-js, version 2.3.4
- pivottable, version 2.23.0
- requirejs, version 2.3.6
- topojson, version 3.0.2
- subtotal, version
- pivot-c3, version 2.23.0
- pivot-plotly, version 2.23.0
- pivot-d3, version 2.23.0

- jquery, version 3.6.0
- jqvmap, version 1.5.1
- qunit, version 2.13.0
- jquery-sparkline, version 2.1.2
- jqueryui, version 1.12.1
- jquery-bracket, version 0.11.1
- timepicker, version 1.13.18
- jquery-context-menu, version
- jquery-scrollbar, version
- **`pdfmake, version 0.1.70 <>`_**
- html2canvas, version 0.4.1
- dompurify, version 2.2.6
- jspdf, version 2.3.0
- clipboard, version 2.0.6
- d3, version 6.3.1
- **`d3-tip, version 0.9.1 <>`_**
- d3-axis, version 3.0.0
- d3-ease, version 3.0.1
- d3-dsv, version 3.0.1
- d3-dispatch, version 3.0.1
- d3-transition, version 3.0.1
- d3-selection, version 3.0.0
- d3-interpolate, version 3.0.1
- d3-time-format, version 4.0.0
- d3-time, version 3.0.0
- d3-array, version 3.0.1
- d3-format, version 3.0.1
- d3-timer, version 3.0.1
- d3-collection, version 1.0.7
- d3-scale, version 4.0.0
- d3-color, version 3.0.1
- d3-brush, version 3.0.0
- d3-drag, version 3.0.0
- d3-shape, version 3.0.1
- d3-zoom, version 3.0.0
- d3-path, version 3.0.1

- plotly.js, version 2.3.0
- nvd3, version 1.8.6
- c3, version 0.7.20
- crossfilter, version 1.3.12
- **`svgjs, version 2.6.2 <>`_**
- apexcharts, version 3.27.1
- dc, version 4.2.7
- vega, version 5.20.2
- vega-tooltip, version 0.25.1
- vega-util, version 1.16.1
- vega-lite, version 5.1.0
- vega-embed, version 6.18.2
- billboard.js, version 3.1.1
- rough-viz, version 1.0.6
- frappe-charts, version 1.5.1
- @chartshq/muze, version 2.0.0
- chart.js, version 3.5.0
- chartjs-plugin-dragdata, version latest
- chartjs-plugin-annotation, version 0.5.7
- chartjs-plugin-datalabels, version 0.7.0
- chartjs-plugin-labels, version 1.1.0
- chartjs-plugin-crosshair, version 1.1.6
- chartjs-plugin-zoom, version 0.7.7
- chartjs-chart-geo, version 3.1.0
- hammer, version 2.0.8
- @popperjs/core, version 2.10.1
- bootstrap-select, version 1.13.18
- ajax-bootstrap-select, version 1.4.5
- vis, version 4.21.0
- vis-timeline, version 7.3.7
- mathjax, version 3.1.2
- socket.io, version 3.0.4
- codemirror, version 5.59.2
- codemirror-search, version
- codemirror-placeholder, version
- codemirror-trailingspace, version

- codemirror-fullscreen, version
- codemirror-highlighter, version
- codemirror-hint, version
- codemirror-panel, version
- codemirror-fold, version
- highlight.js, version 10.4.1
- leaflet, version 1.7.1
- showdown, version 1.9.1
- sortablejs, version 1.10.2
- google-platform, version
- facebook-sdk, version 0.3.3
- tiny-slider, version 2.9.3

5.5.6.4 Framework

5.5.6.4.1 Import Manager

The import Manager is one of the entry point directly accessible from Epyk.

class epyk.core.js.Imports.**ImportManager**(*page=None*)

The main class in charge of defining the order of the imports in the header.

There is no check on the presence of the modules on the server. The only purpose of this module is to produce the string with the module names and the correct paths to your final HTML report.

add(*alias: str*)

Add package to the page external required modules.

Parameters
alias – The external module alias

addPackage(*alias: str*, *config: dict*)

Add a new package or update an existing one with new parameters.

Only few parameters are available here in order to limit the changes.

Usage:

```
i.addPackage('test',
{
  'req': [{'alias': 'd3'}],
  'modules': [
    {'script': 'dc.min.css', 'version': '3.0.9', 'path': 'dc/%(version)s/',
↪'cdnjs': 'https://cdnjs.cloudflare.com/ajax/libs'},
    {'script': 'dc.min.js', 'version': '3.0.9', 'path': 'dc/%(version)s/',
↪'cdnjs': 'https://cdnjs.cloudflare.com/ajax/libs'},
  ]},
)
```

Parameters

- **alias** – The package alias
- **config** – The Python dictionary with the package details

Returns
The import Manager.

cleanImports(*imports: List[str]*, *import_hierarchy: Optional[dict] = None*, *use_require_js: bool = False*)

Remove the underlying imports to avoid duplicated entries.

Usage:

```
>>> ImportManager().cleanImports(['c3'], JS_IMPORTS)
```

['jquery', 'd3', 'c3']

Parameters

- **imports** – An array with the list of aliases for the external packages
- **import_hierarchy** – Optional. The package definition (Javascript | CSS) from the above import list
- **use_require_js** – Optional. Define if this is using requirejs to load imports. Default False

Returns
Return the list with the full list of aliases (including dependencies)

cssGetAll()

To retrieve the full list of available modules on the server.

This will return the dependencies as they should be included in the HTML page. The order and the path resolution is already performed.

If split is True the generated css file will be not included.

Usage:

```
print(page.imports.cssGetAll())
```

cssResolve(*css_aliases: List[str]*, *local_css: Optional[dict] = None*, *excluded: Optional[List[str]] = None*)

Return the list of CSS modules to add to the header.

Usage:

```
>>> ImportManager().cssResolve(['c3'])
```

'<link rel="stylesheet" href="/static/c3/0.6.12/c3.min.css" type="text/css">'

Parameters

- **css_aliases** – An array with the list of aliases for the external packages
- **local_css** – Optional. The external file overrides with the full path
- **excluded** – Optional. Packages excluded from the result object (mandatory for some frameworks already onboarding modules).

Returns
The string to be added to the header.

cssURLs(*css_str: str*)

Retrieve the list of CSS dependencies URL from a header.

Parameters
css_str – The CSS String in the page

Returns
A Python list with all the CSS external URL to be imported.

extend(*aliases: List[str]*)

Add multiple aliases to the external requirements.

Parameters
aliases – The list of package aliases to be added

getFiles(*css_alias: List[str]*, *js_alias: List[str]*)

Retrieve the package definition from the list of module aliases

Usage:

```
>>> ImportManager().getFiles(['c3'], ['c3'])
```

f[‘css’][0][‘file’][‘script’]

Parameters

- **css_alias** – An array with the list of aliases for the CSS external packages
- **js_alias** – An array with the list of aliases for the Js external packages

Returns
A dictionary with the CSS and JS files definition.

getFullPackage(*alias: str*, *version: Optional[str] = None*, *static_path: Optional[str] = None*, *reload: bool = False*)

Download a full package (CSS and JS) locally for a server or full offline mode.

Usage:

```
Imports.ImportManager(report=Report()).getFullPackage('font-awesome')
```

Parameters

- **alias** – The package reference in the above list
- **version** – Optional. The package version to retrieve
- **static_path** – Optional. The path in which the files should be copied to
- **reload** – Optional. Flag to force the package reloading if the folder already exists. Default False

Returns
The Python Import manager.

getModules(*modules: dict*, *alias: Union[str, dict]*, *folder: Optional[str] = None*, *module_details: Optional[dict] = None*)

Return the list of modules for a given entry.

This will be used recursively to resolve all the dependencies.

Usage:

```
modules = collections.OrderedDict()
ImportManager().getModules(modules, 'c3')
```

Parameters

- **modules** – The ordered definition of modules
- **alias** – The module reference in the above JS and CSS dictionaries
- **folder** – Optional. The folder name
- **module_details** – The module definition. Default check in the Javascript modules

Returns
The list of modules

getReq(*mod: str*, *modules: List[dict]*, *import_hierarchy: Optional[dict] = None*, *use_require_js: bool = False*)

Set the list pf required modules for a given alias to the modules list.

Usage:

```
deps = []
page.imports.getReq("c3", deps)
print(deps)
```

Parameters

- **mod** – The alias of the external package
- **modules** – The list of packages aliases in the inverse dependency order
- **import_hierarchy** – Optional. The package definition (Javascript | CSS) from the above import list
- **use_require_js** – Optional. Define if this is using requirejs to load imports. Default False

google_products(*products: List[str]*, *api_key: Optional[str] = None*, *site_key: str = '6LeIxAcTAAAAAJcZVRqyHh71UMIEGNQ_MXjiZKhI'*)

Enable the google predefined products.

Those are by default disabled as they are sharing data with Google.

TODO: Add the use of the API Key.

Usage:

```
page.imports.google_products(['charts'])
page.imports.google_products(['maps'])
page.imports.google_products(['tables'])

https://developers.google.com/recaptcha/docs/faq#id-like-to-run-automated-tests-
↪with-recaptcha.-what-should-i-do
```

Parameters

- **products** – The various Google products to enable in the report

- **api_key** – Optional. The Google developer API key
- **site_key** – Optional. The Google site key: https://developers.google.com/recaptcha/docs/v3

jsGetAll()

To retrieve the full list of available modules on the server.

This will return the dependencies as they should be included in the HTML page. The order and the path resolution is already performed.

If split is True the generated JS file will be not included.

Usage:

```
print(page.imports.jsGetAll())
```

jsResolve(*js_aliases: List[str]*, *local_js: Optional[dict] = None*, *excluded: Optional[List[str]] = None*)

Return the list of Javascript modules to add to the header.

Usage:

```
>>> ImportManager().jsResolve(['c3'])
```

'<script language="javascript" type="text/javascript" src="/static/jquery/3.4.1/jquery.min.js"></script>

<script language="javascript" type="text/javascript" src="/static/d3/5.9.7/d3.min.js"></script> <script language="javascript" type="text/javascript" src="/static/c3/0.6.12/c3.min.js"></script>'

param js_aliases
An array with the list of aliases for the external packages

param local_js
Optional. The external file overrides with the full path

param excluded
Optional. Packages excluded from the result object (mandatory for some frameworks already onboarding modules)

return
The string to be added to the header

jsURLs(*expr: str*)

Retrieve the list of Javascript dependencies URL from a header.

Parameters
expr – The Javascript String in the page

Returns
A Python list with all the Javascript external URL to be imported.

locals(*aliases: List[str]*, *end_points: Optional[str] = None*)

Short circuit the import mechanism and retrieve the selected ones from a local static path.

This could help on the debugging and the improvement of the packages before submitting them for review.

Parameters

- **aliases** – The list of aliases
- **end_points** – Optional. The end point on the server (The module static_path as default)

packages_from_json(*dependency_file: str*, *ext_packages: Dict[str, dict]*)

reduce the list of packages to the ones defined in the packages.json. This will also add the requirements for those packages.

Usage:

```
page = ek.Page()
page.imports.packages_from_json(r"./assets/package.json")

# Loading external packages
ext_pkgs = {
    "@eonasdan/tempus-dominus": {
        'version': "6.7.7",
        'req': [{'alias': '@popperjs/core'}, {'alias': 'bootstrap'}],
        'modules': [
          {'script': 'tempus-dominus.min.css', 'node_path': 'dist/css/', 'path
↪': 'tempus-dominus/%(version)s/'},
          {'script': 'tempus-dominus.min.js', 'node_path': 'dist/js/', 'path':
↪'tempus-dominus/%(version)s/'},
        ]}}

page.imports.packages_from_json(r"./assets/package.json", ext_pkgs)
```

Parameters

- **dependency_file** – Path for the file packages.json
- **ext_packages** – A dictionary with all the external packages to add added to the internal imports

property pkgs: ImportPackages

Shortcut properties to the various package definitions.

This can be used in the script in order to change the path of the version of any external modules used.

property requirements: set

Retrieve all the mandatory requirements required to display the final HTML page.

Usage:

```
print(page.imports().requirements)
```

setVersion(*alias: str*, *version: str*, *js: Optional[dict] = None*, *css: Optional[dict] = None*)

Allow the use of different version of a package.

This will change the Import important to the Python env.

Usage:

```
page.imports.setVersion(page.imports.pkgs.popper_js.alias, "1.00.0")
```

Parameters

- **alias** – The package reference in the above list
- **version** – The new version to be used globally
- **js** – Optional. The JavaScript packages to be added

- **css** – Optional. The CSS packages to be added

show(*all: bool = False*)

Show all the underlying packages used in a report or available in the framework.

Parameters

all – Optional. A flag to specify if only the one requested in the report should be displayed

to_requireJs(*data: dict*, *excluded_packages: Optional[list] = None*)

Parameters

- **data** – The Report modules to resolve
- **excluded_packages** – Optional. The packages to exclude

website(*alias: str*)

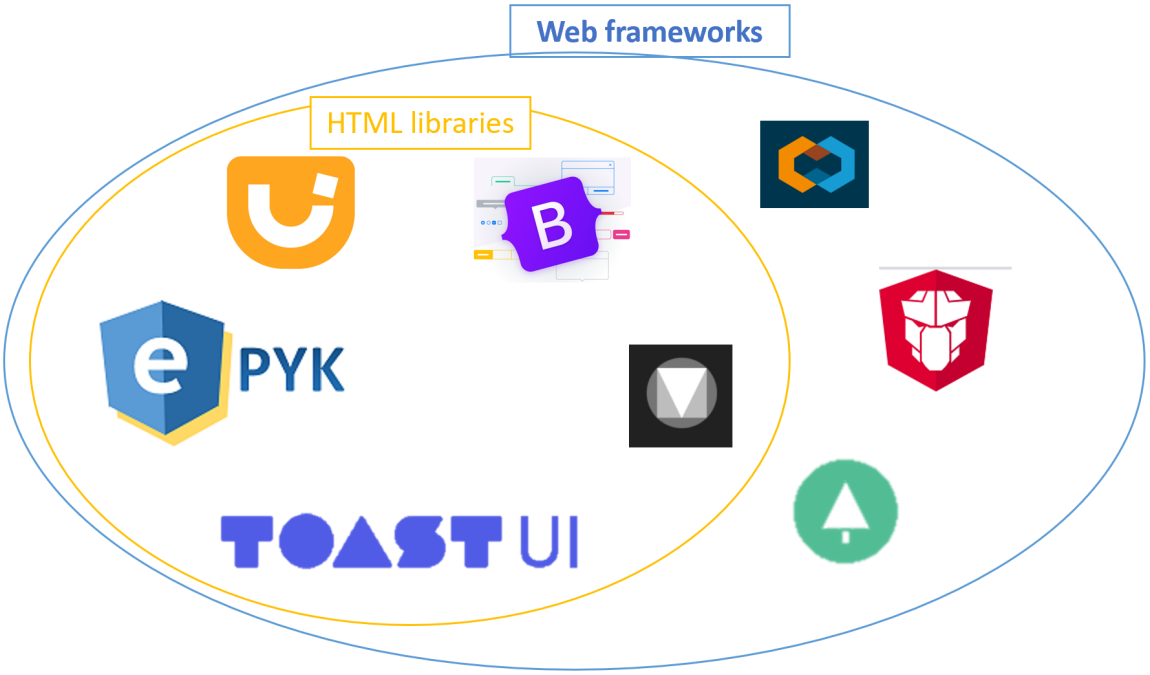
Get the official website for a JavaScript library.

Parameters

alias – The JavaScript module alias (usually the one used by npm)

5.6 Web frameworks

Multiple external web frameworks with predefined components are being integrated to Epyk. It is possible to extend this list and to create your own wrapper to your preferred Web library. To do so please follow the architecture guidelines: ../guides/add_another_web_framework.



Warning: This part of the framework is still work in progress so feel free to help.

5.6.1 Community

This is a collaborative and open source framework so please do not hesitate to propose changes or extend the implementation using PR. Code is fully available in Github ! More details on the way to contribute using PR

5.6.2 Jquery UI

Jquery and Jquery UI are fully integrated to the core components. It means that those libraries will be added automatically when they are needed by a component.

../report/web/jqueryui

Official website

5.6.3 ToastUI

Use TOAST UI to Make Your Web Delicious!. JavaScript UI library and free open source project constantly managed by NHN.

../report/web/toast

Official website

5.6.4 Bootstrap

Build fast, responsive sites with Bootstrap Quickly design and customize responsive mobile-first sites with Bootstrap, the world's most popular front-end open source toolkit, featuring Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful JavaScript plugins.

../report/web/bootstrap

Official website

5.6.5 Material Design UI

Design. Create intuitive and beautiful products with Material Design.

../report/web/material

Official website

5.6.6 Clarity

Work in progress (depend on the Angular integration)

5.6.7 Evergreen

Work in progress (depend on the Angular integration)

5.6.8 Common Interface

class epyk.interfaces.Interface.**WebComponents**(*page: PageModel*)

property bs: Components

Add the entire Bootstrap framework as a dependency to the framework.

This will enable more components to the framework.

More details on the `Bootstrap property` page

..note:

```
This will be using bootstrap 5.
```

Usage:

```
icon = page.web.bs.icons.danger()
```

property clr: Components

Clarity is a scalable, customizable, open source design system bolstered by the people that build with it, the people we build it for, and the community that makes us who we are.

Related Pages:

https://clarity.design/

Usage:

property evr: Components

Evergreen is a React UI Framework for building ambitious products on the web. Brought to you by Segment.

Related Pages:

https://evergreen.segment.com/introduction/getting-started

property ftw: Components

Simple components that focus on appearance and styling while showing the visual language of Office.

Usage:

```
page.web.ftw.check(label="Test Checkbox")
page.web.ftw.check(label="Test Checkbox 2")
page.web.ftw.buttons.small("Test Checkbox 2")
page.web.ftw.icon("add")
page.web.ftw.toggle(True)
page.web.ftw.loading("add", options={"large": True})
select = page.web.ftw.lists.select(selected="value 2")
data = ["value 1", "value 2", "value 3"]
select.data = select.parsers.from_list(data)
```

property jqui: Components

JQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library. Whether you're building highly interactive web applications or you just need to add a date picker to a form control, jQuery UI is the perfect choice.

More details on the `Jquery property` page

Related Pages:

https://jqueryui.com/

property mdc: Components

Set the material components entry point. This will be available in the same way than ui is available for anything else in the core framework.

More details on the `Bootstrap property` page

Usage:

Related Pages:

https://material.io/develop/web/ https://material.io/components?platform=web

Returns
Python HTML object

property std: *Components*

The internal components.

property tui: Components

Add the entire TOAST UI framework as a dependency to the framework. This will enable more components to the framework.

Related Pages:

https://ui.toast.com/

Usage:

```
dt = page.web.tui.date()
cal = page.web.tui.calendar()
```

5.7 Security and Control

Epyk is an open source platform allowing to display data transformed from Python modules thanks to the existing ecosystem. For this reason the security and control of the packages used is really important.

Epyk will provide a full control on the stack used from the data retrieval to the final display in the page.

5.7.1 External libraries

It is possible to restrict the list of packages or even to update / extend it. Those packages have be tested to work with a dedicated version but it is quite easy to check if the latest version will not put any regression to your page.

5.7.2 Offline mode

To speed up performances but also to run without internet connection on a server some features are available to download the external packages. The folders structure created is the same one used by node.js to facilitate to migration to other JavaScript or TypeScript web frameworks.

The property `page.imports.requirements` will allow to get the list of external packages used in the page.

It is important to put this at the end as packages are added during the run when component are attached to the page

5.7.2.1 Install packages

It is possible to install a specific package or a list of packages using the below CLI. If the package is already install the process will not try to update it:

```
epyk_npm.exe install -pkg=promise-polyfill,@popperjs/core,bootstrap,showdown,jquery,
↪accounting,tabulator-tables,moment,chart.js
```

5.7.2.2 Update packages

It is possible to update a specific package or a list of packages using the below CLI:

```
epyk_npm.exe update -pkg=promise-polyfill,@popperjs/core,bootstrap,showdown,jquery,
↪accounting,tabulator-tables,moment,chart.js
```

5.7.2.3 Install all packages

It is also possible to install all the packages (except the Google ones) used in the framework by using the follwoing CLI:

```
epyk_npm.exe install_all
```

5.7.2.4 Restrict the scope

5.7.2.5 Change versions

5.7.2.6 Add packages

Adding a new package means creating a new component. It is very easy to add a new package by just using the importManager.

5.7.2.7 Add packages

5.7.2.8 Checking packages and versions

It is possible to check for a report or a list of reports the list of external packages. This is quite useful to get a global view of the various dependencies but also it get information about the version of the packages compared to the actual ones in NPM:

```
::C:\Python\Python39\Scripts\epyk_npm.exe required -r=epyk_page_0.py
C:\Python\Python39\Scripts\epyk_npm.exe required
```

```
C:\epyks>C:\Python\Python39\Scripts\epyk_npm.exe required
showdown,jquery,tabulator-tables,accounting,chart.js,promise-polyfill,@popperjs/core,bootstrap,moment
[{'name': 'showdown', 'version': '1.9.1', 'count': 2, 'latest': '1.9.1', 'usage': '40.0%'}, {'name': 'jquery', 'version'
: '3.6.0', 'count': 3, 'latest': '3.6.0', 'usage': '60.0%'}, {'name': 'tabulator-tables', 'version': '4.9.3', 'count': 2
, 'latest': '4.9.3', 'usage': '40.0%'}, {'name': 'accounting', 'version': '0.4.1', 'count': 2, 'latest': '0.4.1', 'usage
': '40.0%'}, {'name': 'chart.js', 'version': '2.9.4', 'count': 2, 'latest': '3.2.1', 'usage': '40.0%'}, {'name': 'promis
e-polyfill', 'version': '8.2.0', 'count': 2, 'latest': '8.2.0', 'usage': '40.0%'}, {'name': '@popperjs/core', 'version':
 '2.9.2', 'count': 3, 'latest': '2.9.2', 'usage': '60.0%'}, {'name': 'bootstrap', 'version': '4.6.0', 'count': 3, 'lates
t': '5.0.1', 'usage': '60.0%'}, {'name': 'moment', 'version': '2.29.1', 'count': 2, 'latest': '2.29.1', 'usage': '40.0%'
}, {'name': 'font-awesome', 'version': '5.13.1', 'count': 1, 'latest': '4.7.0', 'usage': '20.0%'}, {'name': 'tiny-slider
', 'version': '2.9.3', 'count': 1, 'latest': '2.9.3', 'usage': '20.0%'}]
```

5.7.3 Google extensions

As google extensions are used to collect the information by default components using those modules are blocked. It will require a specific line of code in order to enable them otherwise the transpilation will raise an error:

```
# Enable Google Maps

# By default all Google products are disabled
page.imports.google_products(['maps'])

map = page.ui.geo.google.terrain(-33.92, 151.25)

# Click event to add interactivity on the page
page.ui.button("Click").click([
  map.js.setMapTypeId('satellite'),
  map.js.setHeading(45),
])
```

5.8 Advanced features

5.8.1 CLI Features

Epyk library will provide CLI features to assist in doing standard events:

1. epyk

Those CLI will provide features to transpile a script to different framework. Multiple entry points are available to allow the transpiling to different format. Functions to create new reports are also available here.

2. epyk_npm

Those CLI features will provide helper to deal with packages. It will allow to:

- check packages in a or multiple reports.
- Install external packages locally

3. epyk_project

Those CLI features will help in creating the right folder structure for projects. This will ensure an easy integration with the Studio.

5.8.1.1 Export (core) features

epyk_export.exe

epyk.core.cli.cli_export.**angular**(*args*)

Generate an Angular Application from the Epyk page

epyk.core.cli.cli_export.**demo**(*args*)

Create a page to demonstrate a example of report.

Parameters
args –

epyk.core.cli.cli_export.**html**(*args*)

Transpile a specific report.

Parameters

- **path** – -p, The path where the new environment will be created: -p /foo/bar
- **name** – -n, The name of the page to be transpiled: -n home
- **split** – -split, Y / N Flag to specify if the result should be splitting in several files

epyk.core.cli.cli_export.**main**()

The main function for all the export CLI entry points.

epyk.core.cli.cli_export.**page**(*args*)

Create a new page.

Parameters
args –

epyk.core.cli.cli_export.**transpile**(*args*)

Transpile a specific report

Parameters

- **name** – -p, The path where the new environment will be created: -p /foo/bar
- **path** – -n, The name of the page to be transpiled: -n home.
- **split** – -s, Y / N Flag, to specify if the files should be split input 3 modules.
- **output** – -0. String. Optional. The output destination path.
- **output** – -0. String. Optional. The output destination path.
- **colors** – String. Optional. The list of colors as string commas delimited.

5.8.1.2 NPM Wrappers

Dedicated CLI for the External packages management.

epyk_npm.exe

epyk.core.cli.cli_npm.**angular**(*args*)

Create an Angular application derived from the main NodeJs server. Then Angular CLI must be available on the NodeJs server.

Parameters

- **parser** – -s, The nodeJs server path
- **parser** – -n, The Angular application name

epyk.core.cli.cli_npm.**angular_parser**(*parser*)

Paser for the angular CLI

Parameters
subparser – subparser

epyk.core.cli.cli_npm.**install**(*args*)

Install only the defined packages locally. Those packages can be only the ones that the React or Vue scripters will be using.

The install will rely on the version and configuration in the Imports module

Usage:

```
print(",".join(list(page.imports.requirements)))

epyk_npm.exe install -pkg=promise-polyfill,@popperjs/core,bootstrap,showdown,jquery,
↪accounting,tabulator-tables,moment,chart.js
```

Parameters

- **packages** – -pkg. The packages list comma separated.
- **path** – -p. Optional. The project path. Default current path.
- **force** – -f. Optional. Force the update of the already installed packages. Default N.

epyk.core.cli.cli_npm.**install_all**(*args*)

Install all the internally defined packages locally. This will mimic the structure of NPM in order to facilitate the links.

Parameters
parser – -p, The project path

epyk.core.cli.cli_npm.**main**()

epyk.core.cli.cli_npm.**npm**(*args*)

Install the external packages relying on the NPM Javascript command line availabke on the NodeJs server. This will not install the packages using the definition in Imports but on the ones in the NPM configuration.

Parameters

- **parser** – -pkg, String, The packages list comma separated
- **parser** – -s, Path of the NodeJs server

epyk.core.cli.cli_npm.**react**(*args*)

Create the React application

Parameters

- **parser** – -s, The nodeJs server path
- **parser** – -n, The Angular application name

epyk.core.cli.cli_npm.**react_parser**(*parser*)

Paser for the vue CLI

Parameters

subparser – subparser

epyk.core.cli.cli_npm.**requirements**(*args*)

Get the list of external modules required for a script.

Parameters

- **path** – -p, the workspace path (Optional if run directly in the project root)
- **exception** – -e, Y/N flag
- **page** – -r, The page name (without the .py extension)

epyk.core.cli.cli_npm.**update**(*args*)

Install only the defined packages locally.

The install will rely on the version and configuration in the Imports module.

See also:

This is equivalent to epyk_npm.exe install -f=Y

Usage:

```
print(",".join(list(page.imports.requirements)))

epyk_npm.exe update -pkg=promise-polyfill,@popperjs/core,bootstrap,showdown,jquery,
↪accounting,tabulator-tables,moment,chart.js
```

param packages

-pkg. The packages list comma separated.

param path

-p. Optional. The project path. Default current path.

epyk.core.cli.cli_npm.**vue**(*args*)

Create the VueJs application

Parameters

- **parser** – -s, The nodeJs server path
- **parser** – -n, The Angular application name

epyk.core.cli.cli_npm.**vue_parser**(*parser*)

Paser for the vue CLI

Parameters

subparser – subparser

5.8.1.3 Project features

Main command lines for Epyk

epyk.exe

epyk.core.cli.cli_project.**add**(*args*)

Add the UI structure to an existing project. This will not create a new workspace it will only add the mandatory structure for a valid UI project.

The project structure is as below: /ui

ui end points definition and data structures communication with the backend

/reports	Folder with all the Python scripts
/templates	Folder with the shared report structure
/views	Folder with the transpiled scripts

ui_settings.py, configuration module for the UI framework

Parameters
parser – -p, The path where the new environment will be created: -p /foo/bar

epyk.core.cli.cli_project.**app**(*args*)

Parameters
args –

epyk.core.cli.cli_project.**compile**(*args*)

Compile a markdown file to a valid HTML page.

Parameters
args –

epyk.core.cli.cli_project.**main**()

Main entry point for the various project command lines.

epyk.core.cli.cli_project.**new**(*args*)

Create a new Epyk Structure.

The project structure is as below: /ui

/reports	Folder with all the Python scripts
/templates	Folder with the shared report structure
/views	Folder with the transpiled scripts

ui_settings.py, configuration module for the UI framework

Parameters

- **parser** – -p, The path where the new environment will be created: -p /foo/bar
- **parser** – -n, The name of the new environment: -n MyEnv

epyk.core.cli.cli_project.**page**(*args*)

Create a new page in the current project.

Parameters

- **parser** – -p, The page / report name to be created (without the extension)
- **parser** – -n, The path where the new environment will be created: -p /foo/bar

epyk.core.cli.cli_project.**translate**(*args*)

Translate a markdown file to a valid Epyk python page.

Parameters
args –

epyk.core.cli.cli_project.**transpile_all**(*args*)

Transpile to HTML all the reports in the project Views are generated by default at the same level than the ui_setting file

Parameters
args –

5.8.2 Page

This class is your your main entry point to the epyk framework, this is where you'll be able to access UI components through the report/ui interfaces or the report/js features. It takes care of writing the body section of your html page and also populating the style and scripts parts.

The below 2 lines of codes will show how to create a page object:

```
import epyk as pk

page  = pk.Page()
```

There are 6 main interfaces available through this object which will enable you to build a complete HTML page:

- *UI Interface*
- components
- *Javascript Interface*
- *Outputs Interface*
- *Python Interface*
- *Data Interface*
- *Web Framework Interfaces*

5.8.2.1 UI Interface

The UI interface allows you to access the different parts of the framework without having to know the underlying details how these components are built.

5.8.2.1.1 External Interfaces:

Bootstrap 4

Material UI

These interfaces are grouped per category as follows:

5.8.2.1.2 Interfaces per Categories:

components Interface

Buttons Interface

class epyk.interfaces.components.CompButtons.**Buttons**(*ui*)

Buttons Interface.

absolute(*text: str*, *size_notch=None*, *icon: str = ''*, *top: Optional[Union[tuple, int, str]] = (50, '%')*, *left: Optional[Union[tuple, int, str]] = (50, '%')*, *bottom=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Button

Display a button on the page regardless the current layout of components. By default, the button will be center on the page.

Tags
Categories

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Button

Usage:

```
page.ui.buttons.absolute("Test")
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **size_notch** – Optional. A value to be added to the number font size
- **bottom** – Optional. The position of the component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **top** – Optional. A tuple with the integer for the component's distance to the top of the page

- **left** – Optional. A tuple with the integer for the component's distance to the left of the page
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

button(*text: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Button

Standard button

Tags
Categories

Usage:

```
page.ui.button("Test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Button

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/alerts.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/button_link.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

cancel(*text: str = 'Cancel', width: Union[tuple, int] = (None, '%'), height: Union[tuple, int] = (None, 'px'), html_code: Optional[str] = None, align: str = 'left', tooltip: Optional[str] = None, profile: Optional[Union[bool, dict]] = None, options: Optional[dict] = None*) → Button

Button with cross icon to cancellation actions.

Tags
Categories

Usage:

```
page.ui.buttons.cancel("Cancel")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Button

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **align** – Optional. The text-align property within this component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

check(*flag: bool = False, tooltip: Optional[str] = None, width: Optional[Union[tuple, int, str]] = (None, 'px'), height: Optional[Union[tuple, int, str]] = (20, 'px'), label: Optional[str] = None, icon: Optional[str] = None, html_code: Optional[str] = None, profile: Optional[Union[bool, dict]] = None, options: Optional[Union[bool, dict]] = None*) → CheckButton

Wrapper to the checkbox button object.

Tags
Categories

Usage:

```
page.ui.buttons.check(label="Label")
page.ui.buttons.check(True, label="Label")
page.ui.buttons.check(True, label="Label", icon="fas fa-align-center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.CheckButton

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **flag** – Optional. The value of the checkbox. Default False
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **label** – Optional. The component label content
- **icon** – Optional. The icon to be used in the check component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

checkboxes(*record=None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Python wrapper to the HTML checkbox elements.

Tips: record data should be in the format expected by the component. If needed a data helper can be used. from the data package in the component property, the various functions available for the checkboxes will help.

Tags
Categories

Usage:

```
page.ui.buttons.checkboxes(data)

cb2 = page.ui.buttons.checkboxes(data, color="red", width=(100, "px"))
cb2.style.configs.shadow()
cb2.click([page.js.console.log(cb2.dom.current)])
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Checkbox

Related Pages:

https://www.w3schools.com/howto/howto_css_custom_checkbox.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button_checkboxes.py

Parameters

- **record** – Optional. The list of dictionaries with the data

- **color** – Optional. The color code
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. The text-align property within this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

clear(*text: str = ''*, *icon: str = 'fas fa-eraser'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Button

Standard clear button with a font-awesome icon.

Usage:

```
page.ui.buttons.clear("Clear")
```

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/alerts.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/button_link.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip

- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

colored(*text: str = ''*, *icon: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Button

Standard colored button.

Tags
Categories

Usage:

```
page.ui.buttons.colored("Test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Button

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/alerts.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/button_link.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

data(*filename*, *text: str = ''*, *icon: Optional[Union[str, bool]] = None*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Standard refresh button with a font-awesome icon.

Tags
Categories

Usage:

```
page.ui.buttons.refresh("Refresh")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Button

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/alerts.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/button_link.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **filename** – Optional. The filename
- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

filter(*text: str = ''*, *is_number: bool = False*, *width: Union[tuple, int] = ('auto', '')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Tags
Categories

Usage:

```
:param text: Optional. The filter value
:param is_number: Optional. The filter property type
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param tooltip: Optional. A string with the value of the tooltip
```

(continues on next page)

(continued from previous page)

```
:param profile: Optional. A flag to set the component performance storage
:param options: Optional. Specific Python options available for this component
```

important(*text: str = ''*, *icon: Optional[str] = None*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Button

Same as Standard button but used to attract user attention.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Usage:

```
page.ui.buttons.important("Important")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

large(*text: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Button

Large button.

Usage:

```
page.ui.buttons.large("Test")
```

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/alerts.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/button_link.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. The integer for the component width and its unit
- **height** – Optional. The integer for the component height and its unit
- **align** – Optional. The horizontal position of the component
- **icon** – Optional. The value of the icon to display from font-awesome
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. The value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

live(*time: int*, *js_funcs: Union[List[Union[str, JsDataModel]], str]*, *icon: Optional[Union[str, bool]] = 'fas fa-circle'*, *width: Optional[Union[tuple, int, str]] = ('auto', 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*)

Live component which will trigger event every x second. This will then allow other components to be refreshed in the page.

Tags
Categories

Usage:

```
b7 = page.ui.buttons.live(3, page.js.console.log("Click"), options={"started":␣
↪False})
b8 = page.ui.buttons.live(2, page.js.console.log("refresh data"), profile=True)
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button_icon.py

Parameters

- **time** – Interval time in second
- **js_funcs** – The Javascript functions
- **icon** – Optional. The font awesome icon reference
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

mail(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *align: str = 'left'*, *tooltip=None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Button

Add a mail button with a predefined icon from font-awesome.

Tags
Categories

Usage:

```
page.ui.buttons.mail()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Button

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

menu(*record: Optional[list] = None*, *text: str = ''*, *icon: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → ButtonMenu

Button with underlying items menu.

Tags
Categories

Usage:

```
tree5 = page.ui.buttons.menu(["A", "B", "C"], 'Menu')
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.ButtonMenu`

Related Pages:

https://www.w3schools.com/howto/tryit.asp?filename=tryhow_css_js_dropdown_hover

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/tree.py

Parameters

- **record** – Optional. The list of dictionaries with the data
- **text** – Optional. The value to be displayed to the button
- **icon** – Optional. The icon to be used in the check component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

more(*items*, *text: str = 'More'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → ButtonMore

Tags
Categories

Usage:

```
b = page.ui.buttons.more([
  {"text": "Add", "target": "_blank", "icon": "fab fa-500px",
   "url": "https://stackoverflow.com/questions/5884066/hashing-a-dictionary"},
  {"text": "Delete", "target": "_blank", "icon": "fab fa-500px",
   "url": "https://stackoverflow.com/questions/5884066/hashing-a-dictionary"},
```

(continues on next page)

(continued from previous page)

```
])
b.click([page.js.console.log("Click event")])
```

Templates:

Related Pages:

Parameters

- **items** – List of items to be added to the menu
- **text** – Optional. The text visible in the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

normal(*text: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Button

Standard button with a standard layout.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Usage:

```
page.ui.buttons.normal("Standard button")
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

- **options** – Optional. Specific Python options available for this component

phone(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *align: str = 'left'*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Button

Add a phone button with a predefined icon from font-awesome.

Tags
Categories

Usage:

```
page.ui.buttons.phone()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

pill(*text: str*, *value=None*, *group: Optional[str] = None*, *width: Union[tuple, int] = ('auto', '')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Add a pill button.

Tags
Categories

Usage:

Templates:

Parameters

- **text** – Optional. The text to be displayed to the button
- **value** – Optional. The value to be displayed in the pill
- **group** – Optional. The group value fot the pill

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

radio(*record: Optional[List[dict]] = None*, *html_code: Optional[str] = None*, *group_name: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Radio

Creates a radio HTML component.

Tips: record data should be in the format expected by the component. If needed a data helper can be used. from the data package in the component property, the various functions available for the radio will help.

Tags
Categories

Usage:

```
page.ui.buttons.radio(df, dfColumn="A", htmlCode="test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlRadio.Radio`

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_forms_inputs.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **record** – Optional. The Python list of dictionaries
- **group_name** – Optional. Group name for multi radio buttons
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

refresh(*text: str = 'Refresh'*, *icon: Optional[Union[str, bool]] = 'fas fa-sync-alt'*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Standard refresh button with a font-awesome icon.

Tags
Categories

Usage:

```
page.ui.buttons.refresh("Refresh")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/alerts.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/button_link.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

remove(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *align: str = 'left'*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Button

Button with cross icon.

Tags
Categories

Usage:

```
page.ui.buttons.remove("Remove")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

run(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Button

Add a run button with a predefined icon from font awesome.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Usage:

```
page.ui.buttons.run("Run")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. The text-align property within this component

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

small(*text: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Button

Standard button with a small layout.

Tags
Categories

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Button

Usage:

```
page.ui.buttons.small("Small button")
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

store(*image*, *url*, *width: Optional[Union[tuple, int, str]] = (7.375, 'rem')*, *height: Optional[Union[tuple, int, str]] = (2.375, 'rem')*, *html_code: Optional[str] = None*, *align: str = 'left'*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Button for a badge which point to the various application stores (Google and Apple). The badge must be issued from the Google Play Store.

Tags
Categories

Usage:

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Image

Related Pages:

https://play.google.com/intl/en_us/badges/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **image** – The url of the image
- **url** – The link to the app in the store
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **align** – Optional. The text-align property within this component
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

text(*text: str*, *icon: Optional[Union[str, bool]] = None*, *width: Union[tuple, int] = ('auto', '')*, *tooltip: Optional[str] = None*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Add a text button.

Tags
Categories

Usage:

Templates:

Parameters

- **text** – Optional. The value to be displayed to the button
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

thumbs_down(*width: Union[tuple, int] = ('auto', '')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Button with the font awesome icon far fa-thumbs-down.

Tags
Categories

Usage:

Templates:

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

thumbs_up(*width: Union[tuple, int] = ('auto', '')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Button with the font awesome icon far fa-thumbs-up.

Tags
Categories

Usage:

```
b6 = page.ui.buttons.thumbs_up(tooltip="Like")
```

Templates:

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

toggle(*record: Optional[dict] = None*, *label: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Add a toggle component.

Component Structure:

```
component.input: :class:`html.HtmlRadio.Switch`
component.label: :class:`html.HtmlText.Label`
```

Tags
Categories

Usage:

```
page.ui.buttons.toggle({'on': "true", 'off': 'false'})
```

Underlying HTML Objects:

- `epyk.core.html.HtmlRadio.Switch`

Related Pages:

http://thecodeplayer.com/walkthrough/pure-css-on-off-toggle-switch https://codepen.io/mburnette/pen/LxNxNg

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/switch.py

Parameters

- **record** – Optional. component data
- **label** – Optional. The toggle static label displayed
- **color** – Optional. String. Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

validate(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *align: str = 'left'*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Button

Add a validate button with a predefined icon from font awesome.

Tags
Categories

Usage:

```
page.ui.buttons.validate("Validate")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.Button`

Related Pages:

https://www.w3schools.com/tags/tag_button.asp http://www.kodingmadesimple.com/2015/04/custom-twitter-bootstrap-buttons-icons-images.html

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py

Parameters

- **text** – Optional. The value to be displayed to the button
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **align** – Optional. The text-align property within this component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

Calendar Interface

class epyk.interfaces.components.CompCalendars.**Calendar**(*ui*)

agenda(*task*, *start*, *end*, *details=None*, *location=None*, *icon: str = 'calendar'*, *text: str = 'Add to Calendar'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
:tags:
:categories:
```

Templates:

Related Pages:

https://stackoverflow.com/questions/5179760/add-events-to-google-calendar-yahoo-calendar-outlook-and-ical
https://codepen.io/vlemoine/pen/MLwygX

TODO: improve the time management in this component

Parameters

- **task** –
- **start** –
- **end** –
- **details** – Optional.
- **location** – Optional.
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **text** – Optional. The value to be displayed to the button
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

days(*month: Optional[int] = None*, *content=None*, *year: Optional[int] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
content = {
  "2020-07-02": {'task1': 50, 'task2': 50},
  "2020-07-03": {'task1': 100},
  "2020-07-21": {'task4': 100},
  "2020-07-22": {'task4': 100}
}

july = page.ui.calendars.days(7, content, align="center", options={"colors": {
↪"task4": 'red'}})
july.task('task1', start="2020-07-10", capacity=[50, 30, 10, 80])
july.task('task4', start="2020-07-20", capacity=[50, 40, 10])
july.weekly("task6", start="2020-07-02", capacity=3, frequency=2, options={'unit
↪': 8})
```

Templates:

Related Pages:

https://github.com/epykure/epyk-templates/blob/master/locals/components/calendar.py

Parameters

- **month** – Optional. The month number
- **content** –
- **year** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. The text-align property within this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

forecast(*month_period: int*, *content: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *position: str = 'top'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display a forecast based on a dictionary containing the values for several months

Usage:

```
:tags:
:categories:
```

Templates:

Related Pages:

https://github.com/epykure/epyk-templates/blob/master/locals/components/calendar.py

Parameters

- **month_period** – Number of months of forecast
- **content** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **position** – Optional. The position compared to the main component tag
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

google(*task*, *start: str*, *end: str*, *details=None*, *location=None*, *icon: str = 'google_plus'*, *text: str = 'Add to Google Calendar'*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add link to the google calendar. Will add the event to the Calendar.

Usage:

```
page.ui.calendars.google("hrehr", "Test", "20200801T153000Z", "20200802T163000Z
↪")
```

Templates:

Tags
Categories

Related Pages:

https://stackoverflow.com/questions/5179760/add-events-to-google-calendar-yahoo-calendar-outlook-and-ical
https://codepen.io/vlemoine/pen/MLwygX

TODO: improve the time management in this component

Parameters

- **task** –
- **start** – Date format YYYYMMDD
- **end** – Date format YYYYMMDD
- **details** – Optional.
- **location** – Optional.
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **text** – Optional. The value to be displayed to the button
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

legend(*record: list*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a legend to a Calendar component.

Tags
Categories

Usage:

```
monthly = page.ui.calendars.months(content=records, align="center")
page.ui.calendars.legend(monthly.tasks)
```

Templates:

Related Pages:

https://github.com/epykure/epyk-templates/blob/master/locals/components/calendar.py

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. The text-align property within this component
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

months(*content: Optional[dict] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
records = {
  1: {"Project 1": 12, "Project 2": 30},
  2: {"Project 1": 12, "Project 2": 30},
  3: {"Project 1": 42, "Project 2": 30},
  4: {"Project 1": 15, "Project 2": 30},
  5: {"Project 1": 12, "Project 2": 30},
  6: {"Project 1": 12, "Project 2": 30},
  7: {"Project 1": 12, "Project 2": 30},
}

monthly = page.ui.calendars.months(content=records, align="center")
monthly.style.css.margin_top = 10
```

Templates:

Related Pages:

https://github.com/epykure/epyk-templates/blob/master/locals/components/calendar.py

Parameters

- **content** – Optional. The Pie charts values
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

pill(*text: str*, *value=None*, *group=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Usage:

```
pill = page.ui.calendars.pill("4D")
page.ui.button("Click").click([page.js.alert(pill.dom.content)])
```

Templates:

Tags
Categories
Parameters

- **text** – Optional. The value to be displayed to the button
- **value** – Optional.
- **group** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

timer(*minutes: int*, *text: str = ''*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page = pk.Page()
dt = page.ui.calendars.timer(5)
```

Parameters

- **minutes** –
- **text** – Optional. The value to be displayed to the timer
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. The text-align property within this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.

Code Interface

class epyk.interfaces.components.CompCodes.**Code**(*ui*)

code(*language: str*, *text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Generic code editor.

Underlying HTML Objects:

- epyk.core.html.HtmlTextEditor.Code

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **language** – The language
- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

css(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

CSS Text editor.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Code`

Related Pages:

https://codemirror.net/index.html

Usage:

```
page.ui.codes.css('''
.cssdivnoborder {margin: 0 ;clear: both ;padding: 0 ;border: 0 ;}
.cssdivnoborder:focus {outline: 1px solid #B4BABF ;}
''')
```

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

javascript(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Javascript Text editor.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Code`

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)

- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

markdown(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Markdown Text editor.

Underlying HTML Objects:

- epyk.core.html.HtmlTextEditor.Code

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

python(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Python Text editor.

Tags
Categories

Underlying HTML Objects:

- epyk.core.html.HtmlTextEditor.Code

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

r(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

R Text editor.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Code`

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

rst(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

RestructuredText editor.

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Code`

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

sql(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

SQL Text editor.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Code`

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

xml(*text: str = ''*, *color: Optional[Union[str, bool]] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

XML Text editor.

Tags
Categories

Underlying HTML Objects:

- epyk.core.html.HtmlTextEditor.Code

Related Pages:

https://codemirror.net/index.html

Usage:

Templates:

Parameters

- **text** – Optional. The text
- **color** – Optional. The color code
- **width** – Optional. The with details in the format(value, unit)
- **height** – Optional. The height details in the format(value, unit)
- **html_code** – Optional. The unique component ID
- **options** – Optional. The object properties
- **helper** – Optional. The helper
- **profile** – Optional. A flag to set the component performance storage

Drawers Interface

class epyk.interfaces.components.CompDrawers.**Drawers**(*ui*)

drawer(*width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (100, '%')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Drawer

Bespoke drawer with handle on the right.

tags
categories

Usage:

```
d1 = page.ui.drawer()
d1.add_panel(page.ui.button("Test"), "ok")
d1.drawers[0].click([d1.panels[0].dom.css({"display": 'block'})])
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/drawers.py

- **param width**
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param options
  Optional. A dictionary with the components properties

param profile
Optional. A flag to set the component performance storage

param helper
Optional. A tooltip helper

`left`(*width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Drawer

Bespoke drawer with handle on the left.

tags
categories

Usage:

- **param width**
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param options
  Optional. A dictionary with the components properties

  param profile
  Optional. A flag to set the component performance storage

  param helper
  Optional. A tooltip helper

`multi`(*component: Html*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *options: Optional[dict] = None*, *profile: Optional[dict] = None*, *helper: Optional[str] = None*) → DrawerMulti

tags
categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/multi_drawers.py

- **param component**
  Object in charge of managing the panel display

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param options
  Optional. A dictionary with the components properties

  param profile
  Optional. A flag to set the component performance storage

param helper
Optional. A tooltip helper

no_handle(*component: Html*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Drawer

Bespoke drawer without handle. The event to display the panel will be attached to the component.

tags
categories

Usage:

```
page.ui.drawers.no_handle(page.ui.button("No Handle"))
```

- **param component**
  Object in charge of managing the panel display

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param options
  Optional. A dictionary with the components properties

  param profile
  Optional. A flag to set the component performance storage

  param helper
  Optional. A tooltip helper

right(*width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Drawer

Bespoke drawer with handle on the left.

tags
categories

Usage:

```
button = page.ui.button("Test")

d = page.ui.drawers.right()
d.add_panel(page.ui.button("Test1"), "ok1")
d.set_handle(button)

d.drawers[0].click([
  d.dom.hide(),
  d.panels[0].dom.css({"display": 'block'}).r,
  page.js.console.log(d.dom.content)
])
```

- **param width**
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param options
  Optional. A dictionary with the components properties

  param profile
  Optional. A flag to set the component performance storage

  param helper
  Optional. A tooltip helper

Fields Interface

`class epyk.interfaces.components.CompFields.Fields(ui)`

`autocomplete(value: str = '', label: Optional[str] = None, placeholder: str = '', icon: Optional[str] = None, width: Optional[Union[tuple, int, str]] = (100, '%'), height: Optional[Union[tuple, int, str]] = (None, 'px'), html_code: Optional[str] = None, helper: Optional[str] = None, options: Optional[Union[bool, dict]] = None, profile: Optional[Union[bool, dict]] = None) → FieldAutocomplete`

Tags
Categories

Usage:

```
page.ui.fields.autocomplete("", label="Range Example", icon="fas fa-unlock-alt")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldAutocomplete`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

checkbox(*value: bool = False*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldCheckBox

Tags
Categories

Usage:

```
page.ui.fields.checkbox(True, label="Check")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldCheckBox`

Related Pages:

https://www.w3schools.com/tags/att_input_type_checkbox.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

cob(*label: Optional[str] = None*, *icon: str = 'calendar'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → DatePicker

This component is based on the Jquery Date Picker object.

Tags
Categories

Usage:

```
page.ui.fields.cob(label="COB Date")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlDates.DatePicker`

Related Pages:

https://jqueryui.com/datepicker/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper

column_date(*label*, *value: str = 'T'*, *align: str = 'left'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
:param label: Optional. The text of label to be added to the component
:param value: Optional. The value to be displayed to this component. Default T
:param align: Optional. The text-align property within this component
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

column_text(*label*, *text: str = ''*, *align: str = 'left'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
:param label: Optional. The text of label to be added to the component
:param text: Optional. The string value to be displayed in the component
:param align: Optional. The text-align property within this component
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

date(*value: Optional[str] = None*, *label: Optional[str] = None*, *icon: str = 'calendar'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → DatePicker

This component is based on the Jquery Date Picker object.

Tags
Categories

Usage:

```
dt = page.ui.fields.date('2020-04-08', label="Date").included_dates(["2020-04-08
↪", "2019-09-06"])
dt.select([page.js.alert(dt.dom.content)])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlDates.DatePicker`

Related Pages:

https://jqueryui.com/datepicker/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/dates.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to the time component. Default now
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper

days(*value=None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldSelect

Tags
Categories

Usage:

```
page.ui.fields.select(["a", "b"], label="Check")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldSelect`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

file(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldFile

Tags
Categories

Usage:

```
page.ui.fields.integer(label="test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldFile`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string

- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

filters(*items=None*, *button=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (60, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *autocomplete: bool = False*, *kind: str = 'select'*, *profile: Optional[Union[bool, dict]] = None*)

Parameters

- **items** –
- **button** –
- **width** –
- **height** –
- **html_code** –
- **helper** –
- **options** –
- **autocomplete** –
- **kind** –
- **profile** –

hidden(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldInput

Create a hidden HTML component. This is used to store values which are not visible on the page.

Tags
Categories

Usage:

```
page.ui.fields.hidden(label="readonly field")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.FieldInput

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

input(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldInput

Tags
Categories

Usage:

```
page.ui.fields.input("", label="Range Example", icon="fas fa-unlock-alt")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldInput`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

integer(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldInteger

Tags
Categories

Usage:

```
page.ui.fields.integer(label="test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldInteger`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

months(*value=None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldSelect

Tags
Categories

Usage:

```
page.ui.fields.select(["a", "b"], label="Check")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldSelect`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

now(*deltatime: int = 0*, *label: Optional[str] = None*, *icon: str = 'clock'*, *color: Optional[str] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → TimePicker

This component is based on the Jquery Time Picker object.

Tags
Categories

Usage:

```
page.ui.fields.now(label="timestamp", color="red", helper="This is the report␣
↪timestamp")
page.ui.fields.now(label="Time field")
```

Underlying HTML Objects:

- epyk.core.html.HtmlDates.TimePicker

Related Pages:

https://github.com/jonthornton/jquery-timepicker

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **deltatime** – Optional
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **color** – Optional. The font color in the component. Default inherit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper

number(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldInput

Tags
Categories

Usage:

```
page.ui.fields.input("", label="Range Example", icon="fas fa-unlock-alt")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldInput`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

password(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldPassword

Tags
Categories

Usage:

```
page.ui.fields.password(label="password")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldPassword`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

radio(*value: bool = False*, *label: str = ''*, *group_name: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Radio

The <input type="radio"> defines a radio button. Radio buttons are normally presented in radio groups (a collection of radio buttons describing a set of related options). Only one radio button in a group can be selected at the same time.

Tags
Categories

Usage:

```
page.ui.inputs.radio(False, label="radio")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.Radio`

Related Pages:

https://www.w3schools.com/tags/att_input_type_radio.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default False
- **label** – Optional. The text of label to be added to the component
- **group_name** – Optional. Group different radio together to only have 1 value selected
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

range(*value: str = ''*, *min: int = 0*, *max: int = 100*, *step: int = 1*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldRange

The <input type="range"> defines a control for entering a number whose exact value is not important. Default range is 0 to 100. However, you can set restrictions on what numbers are accepted with the attributes below. - max - specifies the maximum value allowed - min - specifies the minimum value allowed - step - specifies the legal number intervals - value - Specifies the default value

Tags
Categories

Usage:

```
page.ui.fields.range(54, min=20, label="Range Example", icon="fas fa-unlock-alt
↪")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldRange`

Related Pages:

https://www.w3schools.com/tags/att_input_type_range.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **min** –
- **max** –
- **step** –
- **label** – Optional. The text of label to be added to the component
- **placeholder** –
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

select(*value: Optional[list] = None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *selected: Optional[bool] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *multiple: bool = False*, *profile: Optional[Union[bool, dict]] = None*) → FieldSelect

Tags
Categories

Usage:

```
page.ui.fields.select(["a", "b"], label="Check")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldSelect`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to the component. Default False
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **selected** – Optional. The selected value
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **multiple** – Optional. Flag to specify the number of items to be selectable
- **profile** – Optional. A flag to set the component performance storage

slider(*value: float = 0*, *min: float = 0*, *max: float = 10*, *step: float = 1*, *orientation: str = 'horizontal'*, *label: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *range: bool = False*, *profile: Optional[Union[bool, dict]] = None*) → Div

Parameters

- **value** – Optional. The value to be displayed to this component. Default 0
- **min** – Optional.
- **max** – Optional.
- **step** – Optional.
- **orientation** – Optional.
- **label** – Optional. The toggle static label displayed

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **range** – Optional.
- **profile** – Optional. A flag to set the component performance storage

static(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*, *input_tag: bool = False*) → FieldInput

Tags
Categories

Usage:

```
page.ui.fields.static(label="readonly field")

page.ui.fields.static('''
  Value Formatter €
  A Value Formatter is...
  ''', label="toto", options={"html_encode": True, "multiline": True})
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.FieldInput`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **input_tag** – Optional. Use an input field

text(*text: str = ''*, *label: Optional[str] = None*, *color: Optional[str] = None*, *align: str = 'left'*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Text

Add the HTML text component to the page.

Tags
Categories

Usage:

```
page.ui.text("this is a test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Text`

Related Pages:

https://www.w3schools.com/tags/tag_font.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/banners.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/contextmenu.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/markdown.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/postit.py

Parameters

- **text** – Optional. The string value to be displayed in the component
- **label** – Optional. The text of label to be added to the component
- **color** – Optional. The color of the text
- **align** – Optional. The position of the icon in the line (left, right, center)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** (*tuple*) – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage

textarea(*value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldTextArea

Tags
Categories

Usage:

```
page.ui.fields.textarea(label="Date")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.FieldTextArea

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component. Default empty string
- **label** – Optional. The text of label to be added to the component
- **placeholder** – Optional. The text to be displayed when the input is empty
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

time(*value: Optional[str] = None*, *label: Optional[str] = None*, *icon: str = 'clock'*, *color: Optional[str] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → TimePicker

This component is based on the Jquery Time Picker object.

Tags
Categories

Usage:

```
page.ui.fields.time(label="timestamp", color="red", helper="This is the report␣
↪timestamp")
page.ui.fields.time(label="Time field")
```

Underlying HTML Objects:

- epyk.core.html.HtmlDates.TimePicker

Related Pages:

https://github.com/jonthornton/jquery-timepicker

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to the time component. Default now
- **label** – Optional. The text of label to be added to the component

- **icon** – Optional. The component icon content from font-awesome references
- **color** – Optional. The font color in the component. Default inherit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper

today(*label: Optional[str] = None*, *icon: str = 'calendar'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → DatePicker

This component is based on the Jquery Date Picker object.

Tags
Categories

Usage:

```
page.ui.fields.today(label="Date").included_dates(["2019-09-01", "2019-09-06"])
page.ui.fields.today()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlDates.DatePicker`

Related Pages:

https://jqueryui.com/datepicker/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/dates.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Categories
Inputs,Texts

Tags
Dates

Parameters

- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **color** – Optional. The font color in the component. Default inherit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

- **helper** – Optional. A tooltip helper

toggle(*record=None*, *label: Optional[str] = None*, *is_on: bool = False*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Add a toggle component.

Tags
Categories

Usage:

```
page.ui.buttons.toggle({'on': "true", 'off': 'false'})
```

Underlying HTML Objects:

- epyk.core.html.HtmlRadio.Switch

Related Pages:

http://thecodeplayer.com/walkthrough/pure-css-on-off-toggle-switch https://codepen.io/mburnette/pen/LxNxNg

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/button.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/switch.py

Parameters

- **record** – Optional. The list of dictionaries with the data
- **label** – Optional. The toggle static label displayed
- **is_on** – Optional.
- **color** – Optional. String. Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

weeks(*value=None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldSelect

Tags
Categories

Usage:

```
page.ui.fields.select(["a", "b"], label="Check")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.FieldSelect

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to this component
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

years(*value=None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldSelect

tags
categories

Usage:

```
page.ui.fields.select(["a", "b"], label="Check")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.FieldSelect

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

- **param value**
  Optional. The value to be displayed to this component

  param label
  Optional. The text of label to be added to the component

  param icon
  Optional. The component icon content from font-awesome references

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param html_code
  Optional. An identifier for this component (on both Python and Javascript side)

param helper
Optional. A tooltip helper

param options
Optional. Specific Python options available for this component

param profile
Optional. A flag to set the component performance storage

Timelines Interface

class epyk.interfaces.components.CompFields.**Timelines**(*ui*)

categories(*value=None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → FieldSelect

Tags
Categories

Usage:

```
:param value:
:param label: Optional.
:param icon: Optional.
:param width: Optional. A tuple with the integer for the component width and
↪its unit
:param height: Optional. A tuple with the integer for the component height and
↪its unit
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side).
:param helper: Optional.
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

issues(*records=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Items

Tags
Categories

Usage:

```
:param records:
:param width: Optional. A tuple with the integer for the component width and
↪its unit
:param height: Optional. A tuple with the integer for the component height and
↪its unit
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side)
:param profile: Optional. A flag to set the component performance storage
:param helper:
```

meeting(*time*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → IconEdit

Tags
Categories

Usage:

```
:param time:
:param icon: Optional.
:param width: Optional. A tuple with the integer for the component width and
↪its unit.
:param height: Optional. A tuple with the integer for the component height and
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side).
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

milestone(*completion_date: Union[datetime, str]*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → IconEdit

Tags
Categories

Usage:

```
:param completion_date:
:param icon: Optional.
:param width: Optional. A tuple with the integer for the component width and
↪its unit
:param height: Optional. A tuple with the integer for the component height and
↪its unit
:param html_code: Optional.
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

period(*start_date: Union[datetime, str]*, *days: int*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
:param start_date:
:param days:
:param width: Optional. A tuple with the integer for the component width and
↪its unit
:param height: Optional. A tuple with the integer for the component height and
↪its unit
```

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```
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

view(*start_date: Union[datetime, str]*, *end_date: Union[datetime, str]*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
:param start_date:
:param end_date:
:param width: Optional. A tuple with the integer for the component width and
↪its unit
:param height: Optional. A tuple with the integer for the component height and
↪its unit
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

week(*start_date: Union[datetime, str]*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
:param start_date:
:param width: Optional. A tuple with the integer for the component width and
↪its unit
:param height: Optional. A tuple with the integer for the component height and
↪its unit
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

workload(*value*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
:param value: The workload percentage.
:param width: Optional. A tuple with the integer for the component width and
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side).
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

Forms Interface

class epyk.interfaces.components.CompForms.**Forms**(*ui*)

date(*html_code: str = 'Current'*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Create a DatePicker object.

tags
categories

Usage:

```
page.ui.forms.date("http://127.0.0.1:5000", "POST")
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Form
- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlDates.DatePicker

- **param html_code**
  Optional. An identifier for this component (on both Python and Javascript side)

  param helper
  Optional. A tooltip helper

  param profile
  Optional. A flag to set the component performance storage

  param options
  Optional. Specific Python options available for this component

dates(*html_code: str*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Form

Create two DatePicker objects for current and previous.

tags
categories

Usage:

```
page.ui.forms.dates("http://127.0.0.1:5000", "POST")
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Form
- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlDates.DatePicker

- **param html_code**
  An identifier for the prefix of the date components (on both Python and Javascript side)

  param profile
  Optional. A flag to set the component performance storage

param options
Optional. Specific Python options available for this component

param helper
Optional. A tooltip helper

input(*html_code: str*, *value: str = ''*, *label: Optional[str] = None*, *placeholder: str = ''*, *icon: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Form

tags
categories

Usage:

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Form`
- `epyk.core.html.HtmlInput.FieldInput`

- **param html_code**
  An identifier for this component (on both Python and Javascript side)

  param value
  Optional. The value to be displayed to this component. Default empty

  param label
  Optional. The text of label to be added to the component

  param placeholder
  Optional. The text to be displayed when the input is empty

  param icon
  Optional. The component icon content from font-awesome references

  param profile
  Optional. A flag to set the component performance storage

  param options
  Optional. Specific Python options available for this component

  param helper
  Optional. A tooltip helper

inputs(*record: List[dict]*, *helper: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*) → Form

tags
categories

Usage:

```
page.ui.forms.inputs([
  {"label": "name", "htmlCode": "input"},
  {"label": "name 2", "htmlCode": "input2"},
])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Form`

- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlInput.FieldInput

- **param record**
  The Python list of dictionaries

  param html_code
  Optional. An identifier for this component (on both Python and Javascript side)

  param helper
  Optional. A tooltip helper

  param options
  Optional. Specific Python options available for this component

  param profile
  Optional. A flag to set the component performance storage

new(*components: Optional[List[Html]] = None*, *helper: Optional[str] = None*) → Form

Creates a new empty form.

tags
categories

Usage:

```
f = page.ui.form()
```

- **param helper**
  Optional. A tooltip helper

  param components
  Optional. The different HTML objects to be added to the component

subscribe(*value: str = ''*, *placeholder: str = 'Enter email address'*, *button: Union[Html, str] = 'Subscribe'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*) → Div

tags
categories

Usage:

- **param value**
  Optional. The value to be displayed to this component. Default empty

  param placeholder
  Optional. The text to be displayed when the input is empty

  param button
  Optional. The button component

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

param options
Optional. Specific Python options available for this component

param profile
Optional. A flag to set the component performance storage

Icons Interface

class epyk.interfaces.components.CompIcons.**Icons**(*ui*)

avatar(*img: str = ''*, *name: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (30, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, '')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display an avatar component.

Usage:

```
:param img: The image full path
:param name: Optional.The tooltip name
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

awesome(*icon: str*, *text: Optional[str] = None*, *tooltip: Optional[str] = None*, *position: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*, *align: str = 'left'*, *size: Optional[Union[tuple, int, str]] = (None, 'px')*) → IconEdit

Generic function to create icon components. Default icon library used is font awesome but this might change depending on the web framework used.

Usage:

```
page.ui.icons.awesome(icon="fas fa-align-center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/banners.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/icons.py

Parameters

- **icon** – Optional. The font awesome icon reference
- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit

- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

badge(*text: str = ''*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *background_color: Optional[str] = None*, *color: Optional[str] = None*, *url: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Badge

Display a badge component using Bootstrap

Usage:

```
page.ui.images.badge("Test badge", "Label", icon="fas fa-align-center")
page.ui.images.badge("This is a badge", background_color="red", color="white")
page.ui.images.badge(12, icon="far fa-bell", options={"badge_position": 'right'}
↪)

b = rptObj.ui.images.badge(
  7688, icon="fab fa-python", options={'badge_css': {'color': 'white',
↪"background": 'red'}})
b.options.badge_css = {"background": 'green'}
```

Underlying HTML Objects:

- `epyk.core.html.HtmlImage.Badge`

Related Pages:

https://getbootstrap.com/docs/4.0/components/badge/

Parameters

- **text** – Optional. The content of the badge
- **icon** – Optional. A String with the icon to display from font-awesome
- **background_color** – Optional. The background color of the badge
- **color** – Optional. The text color of the badge
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **url** – Optional
- **tooltip** – Optional. The text to display in the tooltip
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

bar(*records=None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (70, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a bespoke options / actions bar with icons

Usage:

Related Pages:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/chips.py

Parameters

- **records** –
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

capture(*text=None*, *position=None*, *tooltip='Save to clipboard'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.capture()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

clear(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Same as *epyk.interfaces.components.CompIcons.Icons.awesome()* with a fas fa-times-circle icon

Usage:

```
page.ui.icons.clear()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **align** –
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **size** – Optional. A tuple with the integer for the component size and its unit

clock(*text: Optional[str] = None*, *position: Optional[str] = None*, *tooltip: str = 'Last Updated Time'*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options=None*, *profile: Optional[Union[bool, dict]] = None*, *align: str = 'left'*, *size: Optional[Union[tuple, int, str]] = (None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.clock()
page.ui.icons.clock().color("red")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/icons.py

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

danger(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

date(*value: Optional[str] = None*, *label: Optional[str] = None*, *icon: str = 'calendar'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → DatePicker

This component is based on the Jquery Date Picker object.

Usage:

```
page.ui.fields.date('2020-04-08', label="Date").included_dates(["2020-04-08",
↪"2019-09-06"])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlDates.DatePicker`

Related Pages:

https://jqueryui.com/datepicker/

Parameters

- **value** – Optional. The value to be displayed to the time component. Default now
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **color** – Optional. The font color in the component. Default inherit

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper

delete(*text=None*, *position=None*, *tooltip='Delete Component on the page'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.delete()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **size** – Optional. A tuple with the integer for the component size and its unit

download(*text=None*, *position=None*, *tooltip='Download'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.download()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

edit(*text: Optional[str] = None*, *position: Optional[str] = None*, *tooltip: str = 'Edit'*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*, *align: str = 'left'*, *size: Optional[Union[tuple, int, str]] = (None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.edit()
page.ui.icons.edit().color("red")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/icons.py

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

epyk(*align: str = 'center'*, *size: Optional[Union[tuple, int, str]] = (32, 'px')*)

Add the Epyk Icon.

Usage:

```
page.ui.icons.epyk()
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Image

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional.

error(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

excel(*text=None*, *position=None*, *tooltip='Convert to Excel'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.excel()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center...)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

facebook(*text=None*, *url='https://en-gb.facebook.com/'*, *position=None*, *tooltip='Facebook'*, *width=(25, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.facebook()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** –
- **url** –
- **position** –
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

fixed(*icon: Optional[str] = None*, *family: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *align: str = 'left'*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → IconEdit

Parameters

- **icon** – Optional. The icon value
- **family** – Optional. The icon family
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **color** – Optional.
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. A string with the horizontal position of the component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

fluent(*icon: str*, *text: Optional[str] = None*, *tooltip: Optional[str] = None*, *position: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → IconEdit

Usage:

```
page.ui.icons.awesome(icon="fas fa-align-center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

ms-Icon ms-Icon–AdminDLogoInverse32

Parameters

- **icon** – Optional. The FluentUI icon reference
- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

gallery(*icons=None*, *columns=6*, *width=(None, '%')*, *height=('auto', '')*, *options=None*, *profile=None*)

Mosaic of pictures.

Tags
Categories

Usage:

Related Pages:

Underlying HTML Objects:

Templates:

Parameters

- **icons** – List. Optional. The list with the pictures
- **columns** – Integer. Optional. The number of column for the mosaic component
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **options** – Dictionary. Optional. Specific Python options available for this component
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage

github(*text=None*, *url='https://github.com/epykure/epyk-ui'*, *position=None*, *tooltip='Go the the Github project'*, *width=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Link to a GitHub repository.

By default this icon button will redirect to the Epyk UI repository.

Usage:

```
page.ui.icons.github()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** – optional. The text on the icon
- **url** – Optional. The url link
- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

hamburger(*width=(15, 'px')*, *height=(2, 'px')*, *color=None*, *options=None*, *profile=None*)

https://www.w3schools.com/howto/tryit.asp?filename=tryhow_css_menu_icon_js

Parameters

- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **color** – String. Optional. The font color in the component. Default inherit
- **options** – Dictionary. Optional. Specific Python options available for this component
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage

info(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
```

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```
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

instagram(*text=None*, *url='https://www.instagram.com/?hl=en'*, *position=None*, *tooltip='Twitter'*, *width=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.twitter()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** –
- **url** –
- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

large(*icon=None*, *family=None*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *color=None*, *tooltip=None*, *align='left'*, *options=None*, *profile=None*)

Usage:

```
:param icon:
:param family:
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side)
```

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```
:param color:
:param tooltip:
:param align: String. Optional. The text-align property within this component
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage
```

linkedIn(*text=None*, *url='https://www.linkedin.com/in/epykure-python-58278a1b8/'*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Create a LinkedIn icon button which will by default point to the Epykure account. Epykure account is the official account for the development of this framework.

Usage:

```
page.ui.icons.linkedIn()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** – Optional. The text for the Icon
- **url** – Optional. The url when clicked
- **position** –
- **tooltip** – Optional. The tooltip when the mouse is hover
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

mail(*text=None*, *url=''*, *position=None*, *tooltip='Share by mail'*, *width=(25, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Same as *epyk.interfaces.components.CompIcons.Icons.awesome()* with a fab fa-stack-overflow icon

Usage:

```
page.ui.icons.mail()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** –
- **url** –
- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

menu(*data*, *width=(100, '%')*, *height=(None, 'px')*, *options=None*, *profile=False*, *align: str = 'left'*, *size=(None, 'px')*)

Add a menu bar with multiple icons.

Usage:

```
menu = page.ui.icons.menu([
  {"icon": "fab fa-github-square", "tooltip": "Github path", 'url': 'test'},
  {"icon": "far fa-eye"},
  {"icon": "fas fa-file-code"}
])
```

Parameters

- **data** – List. The icons definition.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **size** – Tuple. Optional. A tuple with the integer for the icon size and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **align** – String. Optional. A string with the horizontal position of the component
- **options** – Dictionary. Optional. Specific Python options available for this component
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage

messenger(*text=None*, *url='https://en-gb.facebook.com/'*, *position=None*, *tooltip='Facebook'*, *width=(25, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.facebook()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **url** –
- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

next(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

pdf(*text=None*, *position=None*, *tooltip='Convert to PDF'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.pdf(tooltip="helper")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

play(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Shortcut to the play icon.

Usage:

```
page.ui.icons.play()
```

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

plus(*text=None*, *position=None*, *tooltip='Add line'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.plus()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

previous(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

python(*text=None*, *url='https://pypi.org/'*, *position=None*, *tooltip=''*, *width=(25, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.python()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** –
- **url** –
- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component

- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

refresh(*text=None*, *position=None*, *tooltip='Refresh Component'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.refresh()
page.ui.icons.refresh().color("red")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

remove(*text=None*, *position=None*, *tooltip='Remove Item'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.remove()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

rss(*text='RSS'*, *position=None*, *tooltip=''*, *width=('auto', '')*, *height=(25, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.rss()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. A string with the horizontal position of the component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **size** – Optional. A tuple with the integer for the component size and its unit

save(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

signin(*text: str*, *width: Optional[Union[tuple, int, str]] = (40, 'px')*, *icon: Optional[str] = None*, *colored: bool = True*)

Usage:

```
page.ui.icons.signin("test")
```

Underlying HTML Objects:

- :class:`epyk.core.html.HtmlEvent.SignIn

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/icons.py

Parameters

- **text** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **icon** – Optional. The component icon content from font-awesome references
- **colored** – Optional.

stackoverflow(*text=None*, *url='https://stackoverflow.com/'*, *position=None*, *tooltip='Share your comments'*, *width=(25, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.stackoverflow()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlButton.IconEdit`

Parameters

- **text** –
- **url** –
- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

stop(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Shortcut to the stop icon.

Usage:

```
page.ui.icons.stop()
```

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

success(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

table(*text=None*, *position=None*, *tooltip='Convert to Table'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.table(tooltip="helper")
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None

- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

tick(*flag=True*, *text=None*, *icons=('fa fa-check', 'fa fa-times')*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*) → Tick

Display a tick box component

Usage:

```
page.ui.icons.tick()
```

Underlying HTML Objects:

- epyk.core.html.HtmlRadio.Tick

Parameters

- **flag** – Optional. The state for the tick component
- **text** – optional. The text for this component. Default none
- **icons** – Optional. The two icons to use for the component state
- **position** – Optional. A string with the vertical position of the component
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

timer(*time*, *js_funcs*, *icon='clock'*, *width=(15, 'px')*, *height=(15, 'px')*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*)

Usage:

```
:param time: Integer. Interval time in second
:param js_funcs: String | List. The Javascript functions
:param icon: String. The font awesome icon reference
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit
:param size: Tuple. Optional. A tuple with the integer for the icon size and␣
```

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(continued from previous page)

```
↪its unit
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage
:param align: A string with the horizontal position of the component
```

property toggles

More custom toggles icons.

twitch(*text=None*, *url='https://www.twitch.tv/epykure1'*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.twitter()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** –
- **url** –
- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

twitter(*text=None*, *url='https://twitter.com/Epykure1'*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.twitter()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** –
- **url** –

- **position** –
- **tooltip** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

warning(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

wrench(*text=None*, *position=None*, *tooltip='Processing Time'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.wrench()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

youtube(*text=None*, *url='https://www.youtube.com/'*, *position=None*, *tooltip='Follow us on Youtube'*, *width=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.youtube()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** –
- **url** –
- **position** –
- **tooltip** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Dictionary. Optional. Specific Python options available for this component
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

zoom(*text=None*, *position=None*, *tooltip='Zoom on Component'*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
page.ui.icons.zoom()
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.IconEdit

Parameters

- **text** – Optional. The text to be displayed to this component. Default None
- **position** – Optional. The position of the icon in the line (left, right, center)
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **align** – Optional. A string with the horizontal position of the component
- **size** – Optional. A tuple with the integer for the component size and its unit

zoom_in(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

zoom_out(*text=None*, *position=None*, *tooltip=''*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *options=None*, *profile=None*, *align: str = 'left'*, *size=(None, 'px')*) → IconEdit

Usage:

```
:param text: Optional. The text to be displayed to this component. Default None
:param position: Optional. The position of the icon in the line (left, right,␣
↪center)
:param tooltip: Optional. A string with the value of the tooltip
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
:param align: Optional. A string with the horizontal position of the component
:param size: Optional. A tuple with the integer for the component size and its␣
↪unit
```

Toggles Interface

class epyk.interfaces.components.CompIcons.**Toggles**(*ui*)

collapse(*icon_on='compress'*, *icon_off='fas fa-expand'*, *family=None*, *width=(None, 'px')*, *html_code=None*, *height=(None, 'px')*, *color=None*, *tooltip=None*, *align='left'*, *options=None*, *profile=None*) → IconToggle

Usage:

```
page.ui.images.icon("fab fa-angellist")
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Icon

Related Pages:

https://fontawesome.com/icons?m=free

Parameters

- **icon_on** – Optional. The component icon content from font-awesome references
- **icon_off** – Optional. The component icon content from font-awesome references
- **family** – Optional. The Icon library reference
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **color** – Optional. The font color in the component. Default inherit
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

lock(*icon_on='lock_open'*, *icon_off='fas fa-lock'*, *family=None*, *width=(None, 'px')*, *html_code=None*, *height=(None, 'px')*, *color=None*, *tooltip=None*, *align='left'*, *options=None*, *profile=None*) → IconToggle

Add a lock toggle button.

Usage:

```
page.ui.icons.toggles.lock()
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Icon

Related Pages:

https://fontawesome.com/icons?m=free

Parameters

- **icon_on** – Optional. The component icon content from font-awesome references
- **icon_off** – Optional. The component icon content from font-awesome references
- **family** – Optional. The Icon library reference
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **color** – Optional. The font color in the component. Default inherit
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Images Interface

class epyk.interfaces.components.CompImages.**Images**(*ui*)

animated(*image: str = ''*, *text: str = ''*, *title: str = ''*, *url: Optional[str] = None*, *path: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (200, 'px')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → AnimatedImage

Advance image with mask and gallery link. This will display some details when the mouse is on the container.

Tags
Categories

Usage:

```
c = page.ui.images.animated("epykIcon.PNG", text="This is a comment", title=
↪"Title", url="#")
c.style.css.borders()
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.AnimatedImage

Related Pages:

https://tympanus.net/Tutorials/OriginalHoverEffects/

Parameters

- **image** – Optional. The image file name
- **text** – Optional. String. The image file path
- **title** – Optional. The image title displayed in to the mask on mouse hover the container
- **url** – Optional. The link to the gallery
- **path** – Optional. String. The image file path
- **width** – Optional. Tuple. The component width in pixel or percentage

- **height** – Optional. Tuple. The component height in pixel or percentage
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

avatar(*text: str = ''*, *image: Optional[str] = None*, *path: Optional[str] = None*, *status: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (30, 'px')*, *height: Optional[Union[tuple, int, str]] = (30, 'px')*, *align: str = 'center'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *menu: Optional[Html] = None*, *options: Optional[Union[bool, dict]] = None*) → Div

Generate or load an avatar.

Tags
Categories

Usage:

```
page.ui.images.avatar("Epyk", status='out')
page.ui.images.avatar(image="epykIcon.PNG", path=config.IMG_PATH, status=False)
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Div`
- `epyk.core.html.HtmlImage.Image`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **text** – Optional. The value to be displayed to the component
- **image** – Optional. The url of the image
- **path** – Optional. String. The image file path
- **status** – Optional. The avatar status code. Default no status
- **width** – Optional. Tuple. The component width in pixel or percentage
- **height** – Optional. Tuple. The component height in pixel or percentage
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

background(*url: str*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *size: str = 'cover'*, *margin: int = 0*, *align: str = 'center'*, *html_code: Optional[str] = None*, *position: str = 'middle'*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Div

Add a background image.

Tags
Categories

Usage:

```
:param url: Optional. The link to the gallery
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param size: Optional. The type of background in
:param margin: Optional. The CSS margin properties are used to create space␣
↪around elements, outside of any defined
```

borders

Parameters

- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **position** – Optional. A string with the vertical position of the component
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

badge(*text: str = ''*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *background_color: Optional[str] = None*, *color: Optional[str] = None*, *url: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Badge

Display a badge component using Bootstrap.

Tags
Categories

Usage:

```
page.ui.images.badge("Test badge", "Label", icon="fas fa-align-center")
page.ui.images.badge("This is a badge", background_color="red", color="white")
page.ui.images.badge(12, icon="far fa-bell", options={"badge_position": 'right'}
↪)

b = page.ui.images.badge(
  7688, icon="fab fa-python", options={'badge_css': {'color': 'white',
↪"background": 'red'}})
b.options.badge_css = {"background": 'green'}
```

Underlying HTML Objects:

- `epyk.core.html.HtmlImage.Badge`

Related Pages:

https://getbootstrap.com/docs/4.0/components/badge/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/links.py

Parameters

- **text** – Optional. The content of the badge
- **label** – Optional. The label to display close to the badge
- **icon** – Optional. A String with the icon to display from font-awesome
- **background_color** – Optional. The background color of the badge
- **color** – Optional. The text color of the badge
- **url** – Optional. The underlying url link for the badge
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **tooltip** – String. Optional, The text to display in the tooltip
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A boolean to store the performances for each components

carousel(*images: Optional[list] = None*, *path: Optional[str] = None*, *selected: int = 0*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → ImgCarousel

Carousel component for pictures.

Tags
Categories

Usage:

```
car = page.ui.images.carousel(["epykIcon.PNG", "epyklogo.ico", "epyklogo_whole_
↪big.png"],
                              path=r"../../../static/images", height=(200, 'px'))
car.click([page.js.console.log('data', skip_data_convert=True)])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlImage.ImgCarousel`

Related Pages:

https://www.cssscript.com/basic-pure-css-slideshow-carousel/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **images** – Optional. With the different picture file names
- **path** – Optional. The common path for the pictures
- **width** – Optional. Tuple. The component width in pixel or percentage
- **height** – Optional. Tuple. The component height in pixel
- **selected** – Optional. The selected item index
- **options** – Optional. Specific Python options available for this component

- **profile** – Optional. A flag to set the component performance storage

circular(*image: Optional[str] = None*, *path: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (200, 'px')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *align: str = 'center'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Image

Add an HTML image to the page. The path can be defined either in a absolute or relative format.

Tip: The absolute format does not work on servers. It is recommended to use relative starting to the root of the server.

Tags
Categories

Usage:

```
page.ui.circular("epykIcon.PNG", path=r"../../../static/images", height=(50, "px
↪"))
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Image

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_ref_css_images.asp https://www.w3schools.com/cssref/css3_pr_border-radius.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **image** – Optional. The image file name
- **path** – Optional. String. The image file path
- **width** – Optional. Tuple. The component width in pixel or percentage
- **height** – Optional. Tuple. The component height in pixel or percentage
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

color(*code: str*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (110, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Simple vignette to display a color with it is code.

TODO: Return the hex code of the color when dom.content used

Tags
Categories

Usage:

```
page.ui.images.color("FFFFFF")
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div

Parameters

- **code** – The color code
- **color** – Optional. The font color
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage

container(*components: List[Html]*, *max_width: Optional[Union[tuple, int, str]] = (900, 'px')*, *align: str = 'center'*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Div

Empty container for images.

Tags
Categories

Usage:

```
:param components: List of HTML Component. internal components
:param max_width: Optional. The maximum width for this container
:param align: Optional. A string with the horizontal position of the component
:param profile: Optional. A flag to set the component performance storage
:param options: Optional. Specific Python options available for this component
```

emoji(*symbol: Optional[str] = None*, *top: Optional[Union[tuple, int, str]] = (20, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Emoji

Tags
Categories

Usage:

```
page.ui.images.emoji(page.symbols.smileys.DISAPPOINTED_FACE)
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Emoji

Related Pages:

https://github.com/wedgies/jquery-emoji-picker

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **symbol** – Optional. The emoji code
- **top** – Optional. The number of pixel from the top of the page
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

epyk(*align: str = 'center', width: Optional[Union[tuple, int, str]] = (None, '%'), height: Optional[Union[tuple, int, str]] = ('auto', ''), html_code: Optional[str] = None, profile: Optional[Union[bool, dict]] = None, tooltip: Optional[str] = None, options: Optional[Union[bool, dict]] = None*)

Add the Epyk Icon.

Usage:

```
page.ui.icons.epyk()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlImage.Image`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **align** – Optional. A string with the horizontal position of the component.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **tooltip** – Optional. A string with the value of the tooltip
- **options** – Optional. Specific Python options available for this component

figure(*image: Optional[str] = None, caption: Optional[str] = None, path: Optional[str] = None, width: Optional[Union[tuple, int, str]] = (100, '%'), height: Optional[Union[tuple, int, str]] = (None, 'px'), align: str = 'center', html_code: Optional[str] = None, profile: Optional[Union[bool, dict]] = None, tooltip: Optional[str] = None, options: Optional[Union[bool, dict]] = None*) → Figure

Display a picture as a figure component with an attached caption object.

Tags
Categories

Related Pages:

https://www.w3schools.com/tags/tag_figcaption.asp

Usage:

```
page.ui.images.figure("33c33735-8a1e-4bef-8201-155b4775304a.jpg", "test caption
↪",
  path=picture_path, width=(100, 'px'))
```

Parameters

- **image** – Optional. The url path of the image
- **caption** – Optional.
- **path** – Optional. The image file path
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **tooltip** – Optional. A string with the value of the tooltip
- **options** – Optional. Specific Python options available for this component

gallery(*images: Optional[List[Union[dict, Html]]] = None*, *columns: int = 6*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Grid

Mosaic of pictures.

Tags
Categories

Usage:

Related Pages:

Underlying HTML Objects:

Templates:

Parameters

- **images** – Optional. The list with the pictures
- **columns** – Optional. The number of column for the mosaic component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

icon(*icon: Optional[str] = None*, *family: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *align: str = 'left'*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Icon

Add an icon to the page.

Tags
Categories

Usage:

```
page.ui.images.icon("fab fa-angellist")
icon = page.ui.icon("fab fa-python")
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Icon

Related Pages:

https://fontawesome.com/icons?m=free

Parameters

- **icon** – Optional. The component icon content from font-awesome references
- **family** – Optional. The Icon framework reference
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **color** – Optional. The font color in the component. Default inherit
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

img(*image: Optional[str] = None*, *path: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'center'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *tooltip: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*) → Image

Add an HTML image to the page. The path can be defined either in a absolute or relative format.

Tip: The absolute format does not work on servers. It is recommended to use relative starting to the root of the server.

Tags
Categories

Usage:

```
page.ui.img("epykIcon.PNG", path=r"../../../static/images", height=(50, "px"))
```

Underlying HTML Objects:

- epyk.core.html.HtmlImage.Image

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_ref_css_images.asp https://www.w3schools.com/cssref/css3_pr_border-radius.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **image** – Optional. The image file name
- **path** – Optional. Optional. The image file path

- **width** – Optional. Optional. The component width in pixel or percentage
- **height** – Optional. Optional. The component height in pixel or percentage
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **tooltip** – Optional. A string with the value of the tooltip
- **options** – Optional. Specific Python options available for this component

logo(*url: str*, *width: Optional[Union[tuple, int, str]] = (160, 'px')*, *height: Optional[Union[tuple, int, str]] = (60, 'px')*, *top: Optional[Union[tuple, int, str]] = (16, 'px')*, *left: Optional[Union[tuple, int, str]] = (16, 'px')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
:param url: Optional. The link to the gallery
:param width: Optional. The component width in pixel or percentage
:param height: Optional. The component height in pixel or percentage
:param top: Optional. A tuple with the integer for the component's distance to␣
↪the top of the page
:param left: Optional. A tuple with the integer for the component's distance to␣
↪the left of the page
:param profile: Optional. A flag to set the component performance storage
:param options: Optional. Specific Python options available for this component
```

section(*image: str*, *name: str*, *title: str*, *text: str*, *url: Optional[str] = None*, *path: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (200, 'px')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

```
page.ui.images.section("epykIcon.PNG", "# Test", "Epyk Test", 'This is a test',␣
↪path=r"../../../static/images")
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlText.Span
- epyk.core.html.HtmlText.Paragraph
- epyk.core.html.HtmlText.Title
- epyk.core.html.HtmlImage.Image

Parameters

- **image** – The url of the image
- **name** – The name of the image
- **title** – Optional. A panel title. This will be attached to the title property
- **text** – Optional. The value to be displayed to the component
- **url** – Optional. The link to the gallery
- **path** – Optional. The image file path
- **width** – Optional. The component width in pixel or percentage
- **height** – Optional. The component height in pixel or percentage
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

wallpaper(*url: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (100, '%')*, *size: str = 'cover'*, *margin: int = 0*, *align: str = 'center'*, *html_code: Optional[str] = None*, *position: str = 'middle'*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Background

Tags
Background

Categories

Usage:

```
:param url: Optional. The link to the gallery
:param width: Optional. Tuple. The component width in pixel or percentage
:param height: Optional. Tuple. The component height in pixel or percentage
:param size: Optional. The type of background in
:param margin: Optional. The CSS margin properties are used to create space␣
↪around elements,
```

outside of any defined borders

Parameters

- **align** – Optional. The text-align property within this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **position** – Optional. The position compared to the main component tag
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

youtube(*video_id: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'center'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*) → Image

Get teh picture used by youtube.

Tags
Categories

Usage:

```
:param video_id: Optional. The youtube video ID
:param width: Optional. The component width in pixel or percentage
:param height: Optional. The component height in pixel or percentage
:param align: Optional. A string with the horizontal position of the component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param profile: Optional. A flag to set the component performance storage
:param options: Optional. Specific Python options available for this component
```

Inputs Interface

class epyk.interfaces.components.CompInputs.**Inputs**(*ui*)

autocomplete(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → AutoComplete

Enables users to quickly find and select from a pre-populated list of values as they type, leveraging searching and filtering.

Usage:

```
page.ui.inputs.autocomplete("Test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.AutoComplete`

Related Pages:

https://jqueryui.com/autocomplete/

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

cell(*text: str = ''*, *language: str = 'python'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (60, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Cell

Usage:

```
page.ui.inputs.cell()
```

Underlying HTML Objects:

- epyk.core.html.HtmlTextEditor.Cell

Parameters

- **text** – Optional. The value to be displayed to the componen
- **language** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

checkbox(*flag: bool*, *label: str = ''*, *group_name: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: str = ''*, *profile: Optional[Union[bool, dict]] = None*) → InputCheckbox

Usage:

```
page.ui.inputs.checkbox(False)
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.Checkbox

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **flag** –
- **label** – Optional. The text of label to be added to the component
- **group_name** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional.
- **tooltip** – Optional. A string with the value of the tooltip.
- **profile** – Optional. A flag to set the component performance storage

d_date(*text: str*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (140, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → InputDate

Usage:

```
date = page.ui.inputs.d_date()
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.InputDate

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

d_int(*value: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → InputInteger

Usage:

```
date = page.ui.inputs.d_int()
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.InputInteger

Parameters

- **value** – Optional. The value of this input number field
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip

- **profile** – Optional. A flag to set the component performance storage

d_radio(*flag: bool = False*, *group_name: Optional[str] = None*, *placeholder: str = ''*, *tooltip: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → InputRadio

Add a radio component.

Usage:

```
page.ui.inputs.d_radio()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.InputRadio`

Parameters

- **flag** – Optional. The component init value
- **group_name** – Optional. The radio group name
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

d_range(*value*, *min_val: float = 0*, *max_val: float = 100*, *step: float = 1*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → InputRange

Usage:

```
:param value: Optional. The value of the component
:param min_val: Optional. The minimum value
:param max_val: Optional. The maximum value
:param step: Optional. The step when the handle is moved
:param placeholder: Optional. Text visible when the input component is empty
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param attrs: Optional. Specific HTML tags to be added to the component
```

(continues on next page)

(continued from previous page)

```
:param tooltip: Optional. A string with the value of the tooltip
:param profile: Optional. A flag to set the component performance storage
```

d_search(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Input

One of the new types of inputs in HTML5 is search.

Usage:

```
page.ui.inputs.d_search("")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.Input`

Related Pages:

https://developer.mozilla.org/fr/docs/Web/HTML/Element/Input/search https://css-tricks.com/webkit-html5-search-inputs/

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

d_text(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Input

Usage:

```
page.ui.inputs.d_text()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.Input`

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

d_time(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (139, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → InputTime

A lightweight, customizable javascript timepicker plugin for jQuery inspired by Google Calendar.

Usage:

```
date = page.ui.inputs.d_time()
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.InputTime

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

editor(*text: str = ''*, *language: str = 'python'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Editor

Usage:

```
page.ui.inputs.editor()
```

Underlying HTML Objects:

- epyk.core.html.HtmlTextEditor.Editor

Parameters

- **text** – Optional. The value to be displayed to the componen
- **language** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

file(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → InputFile

Input field that will hide characters typed in

Usage:

```
page.ui.inputs.file()
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.InputFile

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

filters(*items: Optional[List[Html]] = None*, *button: Optional[Html] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (60, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *autocomplete: bool = False*, *profile: Optional[Union[bool, dict]] = None*) → Div

Parameters

- **items** –
- **button** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **html_code** –
- **helper** –
- **autocomplete** –
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

hidden(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Input

Add a hidden input component to the page. This could be used to store data to then be passed to underlying services,

Usage:

```
rptObj.ui.inputs.hidden("Test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.Input

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

input(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Input

Add a standard input component.

Usage:

```
page.ui.inputs.input("Test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.Input

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py https://github.com/epykure/epyk-templates/blob/master/locals/components/modal.py https://github.com/epykure/epyk-templates/blob/master/locals/components/popup_info.py

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

label(*label: str*, *text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[dict] = None*, *attrs: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Add an input label component.

Usage:

```
page.ui.inputs.label()
page.ui.inputs.label("test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.Input
- epyk.core.html.HtmlText.Label
- epyk.core.html.HtmlContainer.Div

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/links.py

Parameters

- **label** –
- **text** –
- **placeholder** –
- **width** –
- **height** –
- **html_code** –
- **tooltip** – Optional. A string with the value of the tooltip.
- **options** –

- **profile** –
- **attrs** –

left(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Input

Add a standard input component.

Usage:

```
page.ui.inputs.left("Test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.Input

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py https://github.com/epykure/epyk-templates/blob/master/locals/components/modal.py https://github.com/epykure/epyk-templates/blob/master/locals/components/popup_info.py

Parameters

- **text** – Optional. The value to be displayed to the component
- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

password(*text: str = ''*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *attrs: Optional[dict] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Input

Input field that will hide characters typed in.

Usage:

```
page.ui.inputs.password(placeholder="Password")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.Input

Parameters

- **text** – Optional. The value to be displayed to the component

- **placeholder** – Optional. Text visible when the input component is empty
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **attrs** – Optional. Specific HTML tags to be added to the component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

radio(*flag: bool*, *label: Optional[str] = None*, *group_name: Optional[str] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Radio

Usage:

```
page.ui.radio(['Single', 'Multiple'], html_code="type")
```

Underlying HTML Objects:

- epyk.core.html.HtmlInput.Radio

Related Pages:

https://www.w3schools.com/tags/att_input_type_radio.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/radio.py

Parameters

- **flag** –
- **label** – Optional.
- **group_name** – Optional.
- **icon** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** –
- **tooltip** – Optional. A string with the value of the tooltip
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

search(*text: str = ''*, *placeholder: str = 'Search..'*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *extensible: bool = False*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Search

Add an input search component.

Usage:

```
page.ui.inputs.search()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Cell`

Related Pages:

https://www.w3schools.com/howto/tryit.asp?filename=tryhow_css_anim_search

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list_filter.py

Parameters

- **text** – Optional. The value to be displayed to the componen
- **placeholder** –
- **align** – Optional. The text-align property within this component
- **color** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **extensible** –
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

textarea(*text: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *rows: int = 5*, *placeholder: Optional[str] = None*, *background_color: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *tooltip: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → TextArea

Add textarea component.

Usage:

```
page.ui.inputs.textarea("Test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.TextArea`

Related Pages:

https://www.w3schools.com/tags/tag_textarea.asp

Parameters

- **text** – Optional. The value to be displayed to the component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **rows** –
- **placeholder** – Optional. Text visible when the input component is empty
- **background_color** –
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage

Delimiter Interface

class epyk.interfaces.components.CompLayouts.**Delimiter**(*ui*)

dashed(*count: int = 1*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Wrapper around the HT html tag.

Tags
Categories

Usage:

Templates:

Parameters

- **count** – Optional. The number of HR tag to be added.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The content position. Values (left, right, center). Default center.
- **options** – Optional. Dictionary. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

dotted(*count: int = 1*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Wrapper around the HT html tag.

Tags
Categories

Usage:

Templates:

Parameters

- **count** – Optional. The number of HR tag to be added.
- **width** – Optional. A tuple with the integer for the component width and its unit.

- **align** – Optional. The content position. Values (left, right, center). Default center.
- **options** – Optional. Dictionary. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

double(*count: int = 1*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Wrapper around the HT html tag.

Tags
Categories

Usage:

Templates:

Parameters

- **count** – Optional. The number of HR tag to be added.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The content position. Values (left, right, center). Default center.
- **options** – Optional. Dictionary. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

line(*count: int = 1*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Wrapper around the HT html tag.

Tags
Categories

Usage:

Templates:

Parameters

- **count** – Optional. The number of HR tag to be added.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The content position. Values (left, right, center). Default center.
- **options** – Optional. Dictionary. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Layouts Interface

class epyk.interfaces.components.CompLayouts.**Layouts**(*ui*)

accentuate(*width: Optional[Union[tuple, int, str]] = (10, '%')*, *height: Optional[Union[tuple, int, str]] = (1, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Add a styles hr component to lightly underline another component.

Tags
Categories

Usage:

```
page.ui.layouts.accentuate()
```

Templates:

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. The content position. Values (left, right, center). Default center.
- **options** – Optional. Dictionary. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

br(*count: int = 1*, *profile: Optional[Union[bool, dict]] = None*) → Newline

Wrapper around the Br html tag.

The
 tag inserts a single line break.

Tags
Categories

Usage:

```
page.ui.layouts.new_line(10)
```

Underlying HTML Objects:

- epyk.core.html.HtmlOthers.Newline

Related Pages:

https://www.w3schools.com/tags/tag_br.asp

Parameters

- **count** – Integer. Optional. The number of empty line to put. Default 1.
- **profile** – Boolean | Dictionary. Optional. Activate the profiler.

centered(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

col(*components: Optional[List[Html]] = None*, *position: str = 'middle'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Col

Python wrapper for a column of HTML elements from Bootstrap.

This component is a container and it is used to display multiple Ares components in column. You can first add a component in the data list then add the + operator to add more.

Tags
Categories

Usage:

```
page.ui.layouts.col([
  page.ui.text("test C"),
  page.ui.text("test D"),
])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Col`

Related Pages:

https://getbootstrap.com/docs/4.0/layout/grid/ https://www.alsacreations.com/tuto/lire/1493-css3-flexbox-layout-module.html

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **position** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. A string with the horizontal position of the component.
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.

- **profile** – Optional. A flag to set the component performance storage.

columns(*components: List[Html]*, *cols*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *position: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Grid

Tags
Categories

Usage:

Templates:

Parameters

- **components** – List. The different HTML objects to be added to the component.
- **cols** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **align** – String. Optional. A string with the horizontal position of the component.
- **position** – String. Optional. A string with the vertical position of the component.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean or Dictionary. Optional. A flag to set the component performance storage.

dialogs(*text: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Dialog

Simple Jquery UI modal with a text.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlEvent.Dialog`

Related Pages:

https://jqueryui.com/dialog/

Usage:

```
:param text: Optional. The value to be displayed to the component.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

div(*components: Optional[Union[Html, List[Html]]] = None*, *label: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *icon: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *editable: bool = False*, *align: str = 'left'*, *padding: Optional[int] = None*, *html_code: Optional[str] = None*, *tag: str = 'div'*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *position: Optional[Union[bool, dict]] = None*) → Div

Add a simple div container to the page. The tag defines a division or a section in an HTML document.

The tag is used as a container for HTML elements - which is then styled with CSS or manipulated with JavaScript.

Tags
Categories

Usage:

```
div = page.ui.div([html])
div += html_2
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Div`

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/bars.py

Parameters

- **components** – The different HTML objects to be added to the component
- **label** – Optional.
- **color** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **icon** – Optional.
- **position** – Optional.
- **editable** – Optional.
- **align** – Optional. A string with the horizontal position of the component
- **padding** – Optional.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tag** – Optional. The HTML tag (Default div)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **helper** – Optional.

form(*components: Optional[List[Html]] = None*, *helper: Optional[str] = None*) → Form

Tags
Categories

Usage:

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Form`

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **helper** – Optional. A tooltip helper.

grid(*rows=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *position: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Grid

Python wrapper to the HTML Bootstrap Grid.

Tags
Categories

Usage:

```
gr = page.ui.layouts.grid()
gr += [page.ui.text("test %s" % i) for i in range(5)]
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Grid`

Related Pages:

https://getbootstrap.com/docs/4.0/layout/grid/

Templates:

Parameters

- **rows** –
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. A string with the horizontal position of the component.
- **position** – Optional. A string with the vertical position of the component.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

header(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Header

The HTML <header> element represents introductory content, typically a group of introductory or navigational aids. It may contain some heading elements but also a logo, a search form, an author name, and other elements.

Tags
Categories

Usage:

```
div = page.ui.header([html])
div += html_2
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Header

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/HTML/Element/header

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** –
- **options** – Optional. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

hr(*count: int = 1*, *background_color: Optional[str] = None*, *margins: int = 0*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Wrapper around the HT html tag.

The <hr> tag defines a thematic break in an HTML page (e.g. a shift of topic).

Tips: If background_color is True, the theme color will be used.

Tags
Categories

Usage:

```
page.ui.layouts.hr(10)
```

Underlying HTML Objects:

- epyk.core.html.HtmlOthers.Hr

Related Pages:

https://www.w3schools.com/tags/tag_hr.asp

Templates:

Parameters

- **count** – Optional. The number of HR tag to be added.
- **background_color** – Optional. The component background color.

- **margins** – Optional. The margin top and bottom in pixels.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. The content position. Values (left, right, center). Default center.
- **options** – Optional. Dictionary. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

icons(*icon_names=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → IconsMenu

Tags
Categories

Usage:

```
menu = page.ui.layouts.icons(["fas fa-bell", "fas fa-calendar-check"])
menu.icon.click([menu.icon.dom.css({"color": 'red'})])
menu[0].click([menu[0].dom.css({"color": 'red'})])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.IconsMenu

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/icons.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py

Parameters

- **icon_names** –
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **profile** – Optional. A flag to set the component performance storage.

iframe(*url: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (100, '%')*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → IFrame

Add a iframe component to the page.

Tags
Categories

Usage:

```
page.ui.layouts.iframe("http://www.google.com")
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.IFrame

Templates:

Parameters

- **url** – Optional. The link to the underlying page.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **helper** – Optional. A tooltip helper.
- **profile** – Optional. A flag to set the component performance storage.

inline(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Tags
Categories

Usage:

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

new_line(*count: int = 1*, *profile: Optional[Union[bool, dict]] = None*) → Newline

Wrapper around the Br html tag.

The
 tag inserts a single line break.

Tags
Categories

Usage:

```
page.ui.layouts.new_line(10)
```

Underlying HTML Objects:

- epyk.core.html.HtmlOthers.Newline

Related Pages:

https://www.w3schools.com/tags/tag_br.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/contextmenu.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/links.py

Parameters

- **count** – Integer. Optional. The number of empty line to put. Default 1.
- **profile** – Boolean | Dictionary. Optional. Activate the profiler.

panel(*components: Optional[List[Html]] = None*, *title: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → Panel

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Panel

Tags
Categories

Usage:

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **title** –
- **color** – Optional. The font color in the component. Default inherit.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

popup(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Popup

Add a generic popup component to the page.

Tags
Categories

Usage:

```
popup = page.ui.layouts.popup(page.ui.title('Test'), color="red")
popup.add(page.ui.texts.paragraph('Test'))
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

row(*components: Optional[List[Html]] = None*, *position: str = 'middle'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Row

Python wrapper for a column of HTML elements from Bootstrap.

This component is a container and it is used to display multiple Ares components in column. You can first add a component in the data list then add the + operator to add more.

Tags
Categories

Usage:

```
row = page.ui.layouts.row()
row += page.ui.layouts.col([
  page.ui.text("test A"),
  page.ui.text("test B"),
])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Row`

Templates:

Related Pages:

https://getbootstrap.com/docs/4.0/layout/grid/ https://www.alsacreations.com/tuto/lire/1493-css3-flexbox-layout-module.html

Parameters

- **components** – The different HTML objects to be added to the component.
- **position** – Optional. The CSS justify-content attribute
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. A string with the horizontal position of the component.
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

section(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Section

The <section> tag defines sections in a document, such as chapters, headers, footers, or any other sections of the document.

Tags
Categories

Usage:

```
div = page.ui.header([html])
div += html_2
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Header

Related Pages:

https://www.w3schools.com/tags/tag_section.asp

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

table(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Table

table layout for HTML components.

Tags
Categories

Usage:

```
row = page.ui.layouts.table()
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Table

Templates:

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **helper** – Optional. A tooltip helper.

- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

underline(*width: Optional[Union[tuple, int, str]] = (10, '%')*, *height: Optional[Union[tuple, int, str]] = (3, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Add a styles hr component to underline another component.

Tags
Categories

Usage:

```
page.ui.layouts.underline()
```

Templates:

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. The content position. Values (left, right, center). Default center.
- **options** – Optional. Dictionary. Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Links Interface

class epyk.interfaces.components.CompLinks.**Links**(*ui*)

button(*text: str = ''*, *url: str = ''*, *icon: Optional[str] = None*, *helper: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *decoration: bool = False*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Underlying HTML Objects:

- epyk.core.html.HtmlLinks.ExternalLink

Usage:

```
page.ui.links.button()
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/links.py

Parameters

- **text** – Optional. The string value to be displayed in the component
- **url** – The destination page when clicked
- **icon** – Optional. The component icon content from font-awesome references
- **helper** – Optional. A tooltip helper
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **decoration** –

- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

colored(*text: str = ''*, *url: str = ''*, *icon: Optional[str] = None*, *helper: Optional[str] = None*, *color: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *decoration: bool = False*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display a link with the same layout than a buttons.colored HTML component.

Usage:

```
page.ui.links
```

Parameters

- **text** – Optional. The string value to be displayed in the component.
- **url** – Optional. The string url of the link.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **helper** – Optional. A tooltip helper.
- **color** – Optional. The font color in the component. Default inherit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **decoration** –
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. Optional. A flag to set the component performance storage.

data(*text: str*, *value*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *fmt: str = 'txt'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Python interface to the Hyperlink to retrieve data.

Usage:

```
data_link = page.ui.links.data("link", "test#data")
data_link.build({"text": 'new link Name', 'data': "new content"})
```

Underlying HTML Objects:

- epyk.core.html.HtmlLinks.DataLink

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/links.py

Parameters

- **text** – The string value to be displayed in the component
- **value** – The value to be displayed to this component.

- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **fmt** – Optional. The downloaded data format.
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storag.e

download(*url: str = '#', text: str = '', icon: str = 'download', helper: Optional[str] = None, height: Optional[Union[tuple, int, str]] = (None, 'px'), decoration: bool = False, align: str = 'left', html_code: Optional[str] = None, options: Optional[dict] = None, profile: Optional[Union[bool, dict]] = None*)

HTML component to upload files.

Usage:

```
page.ui.links
```

Parameters

- **text** – Optional. The string value to be displayed in the component
- **url** – Optional. The string url of the link
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **helper** – Optional. A tooltip helper
- **height** – Optional. A tuple with the integer for the component height and its unit
- **decoration** –
- **align** – Optional. The text-align property within this component.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

external(*text: str, url: str, icon: Optional[str] = None, align: str = 'left', helper: Optional[str] = None, height: Optional[Union[tuple, int, str]] = (None, 'px'), decoration=False, html_code: Optional[str] = None, options: Optional[dict] = None, profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.links.external('data', 'www.google.fr', icon="fas fa-align-center",␣
↪options={"target": "_blank"})
```

Underlying HTML Objects:

- `epyk.core.html.HtmlLinks.ExternalLink`

Related Pages:

https://www.w3schools.com/TagS/att_a_href.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/links.py

Parameters

- **text** – Optional. The string value to be displayed in the component
- **url** – Optional. The string url of the link
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **align** – Optional. The text-align property within this component.
- **helper** – Optional. A tooltip helper
- **height** – Optional. A tuple with the integer for the component height and its unit
- **decoration** –
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

link(*text: str = ''*, *url: str = ''*, *icon: Optional[str] = None*, *align: str = 'left'*, *tooltip: Optional[str] = None*, *helper: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *decoration: bool = False*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Python interface to the common Hyperlink.

Usage:

```
page.ui.link({"text": "Profiling results", "url": '#'})
l = page.ui.links.link('data', 'www.google.fr', icon="fas fa-align-center",␣
↪options={"target": "_blank"})
b = page.ui.images.badge("new")
l.append_child(b)
```

Underlying HTML Objects:

- `epyk.core.html.HtmlLinks.ExternalLink`

Parameters

- **text** – Optional. The string value to be displayed in the component.
- **url** – Optional. The string url of the link.
- **align** – Optional. The text-align property within this component.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **tooltip** – Optional. The tooltip displayed when the mouse is on the component.
- **helper** – Optional. A tooltip helper.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **decoration** –
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

upload(*url: str = '#', text: str = '', icon: str = 'upload', helper: Optional[str] = None, height: Optional[Union[tuple, int, str]] = (None, 'px'), decoration: bool = False, align: str = 'left', html_code: Optional[str] = None, options: Optional[dict] = None, profile: Optional[Union[bool, dict]] = None*)

HTML component to upload files.

Usage:

```
page.ui.links
```

Parameters

- **text** – Optional. The string value to be displayed in the component
- **url** – Optional. The string url of the link
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **helper** – Optional. A tooltip helper
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **decoration** –
- **align** – Optional. The text-align property within this component.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Lists Interface

class epyk.interfaces.components.CompLists.**Lists**(*ui*)

alpha(*data=None, width: Optional[Union[tuple, int, str]] = ('auto', ''), height: Optional[Union[tuple, int, str]] = (None, 'px'), html_code: Optional[str] = None, options: Optional[dict] = None, profile: Optional[Union[bool, dict]] = None, helper: Optional[str] = None*)

Usage:

```
page.ui.lists
```

Underlying HTML Objects:

- epyk.core.html.HtmlList.List

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper

- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

badges(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.lists.badges([{'label': 'Python', 'value': 12}, {'label': 'R', 'value':␣
↪3}])

i = page.ui.lists.badges([
  {"text": 'text', 'icon': 'fas fa-times', 'checked': True, 'value': 8},
  {"text": 'text', 'icon': 'fas fa-times', 'checked': True, 'value': 5},
], options={"badge": {"background": 'green'}})
i.click([page.js.console.log(i.dom.content)])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlList.Badges`

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp https://v4-alpha.getbootstrap.com/components/list-group/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

box(*records: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, '%')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Special list configuration for a list of box with a title with a text and a list of icons

Usage:

```
page.ui.lists
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list_box.py

Parameters

- **records** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **helper** – Optional. A tooltip helper

brackets(*records=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (550, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
minimalData = {
  "teams": [
    ["Team 1", "Team 2"],
    ["Team 3", "Team 4"]
],
  "results": [
    [[1, 2], [3, 4]],
    [[4, 6], [2, 1]]]
}

bt = page.ui.lists.brackets(minimalData)
```

Parameters

- **records** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

checks(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a list component with checkbox items.

Usage:

```
data = [{"label": "python", "value": False}, {"label": "Java", "value": 5}]
checks = page.ui.lists.checklist(data)

ts = page.ui.lists.items(["menu %s" % i for i in range(10)])
its.options.checked_key = "selected"
#its.options.max_selected = 2
```

(continues on next page)

(continued from previous page)

```
its.options.items_type = "check"
its.options.checked_key = "selected"
its.options.text_click = True
```

Underlying HTML Objects:

- epyk.core.html.HtmlList.Checks

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

chips(*items=None*, *category: str = 'group'*, *placeholder: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (60, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a chip (filter) html component

Usage:

```
chips = page.ui.chips([])
chips2 = page.ui.chips(["example", {"value": 'test', 'name': 'group 2'}],␣
↪options={"visible": True})
```

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.Filters

Related Pages:

https://www.w3schools.com/howto/howto_css_contact_chips.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/chips.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

Parameters

- **items** – Selected items
- **category** – Optional. The group of the items.
- **placeholder** – Optional. The input field placeholder
- **width** – Optional. A tuple with the integer for the component width and its unit

- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

disc(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.lists
```

Underlying HTML Objects:

- `epyk.core.html.HtmlList.List`

Related Pages:

https://www.w3schools.com/cssref/pr_list-style-type.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/paragraph.py

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

drop(*data=None*, *color=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
cols_keys = page.ui.lists.drop(html_code="cols_agg_keys")
cols_keys.style.css.min_height = 20
cols_keys.items_style(style_type="bullets")
cols_keys.drop()
```

Parameters

- **data** –
- **color** –

- **width** –
- **height** –
- **html_code** –
- **helper** –
- **options** –
- **profile** –

dropdown(*records=None*, *text: str = ''*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Create a dropdown item.

Underlying HTML Objects:

- `epyk.core.html.HtmlTrees.DropDown`

Related Pages:

http://getbootstrap.com/docs/4.0/components/dropdowns/ https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_js_dropdown_multilevel_css&stacked=h https://codepen.io/svnt/pen/beEgre

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/dropdown.py https://github.com/epykure/epyk-templates/blob/master/locals/components/tree.py

Parameters

- **records** – Optional. The list of dictionaries with the input data.
- **text** – Optional. The value to be displayed to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

groups(*data=None*, *categories=None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
l = page.ui.lists.groups(["AWW", "B"])
l.add_list(["D", "E"], category="Test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlList.Groups

Related Pages:

http://designbump.com/create-a-vertical-accordion-menu-using-css3-tutorial/ http://thecodeplayer.com/walkthrough/vertical-accordion-menu-using-jquery-css3

Parameters

- **data** –
- **categories** –
- **color** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

icons(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.lists.badges([{'label': 'Python', 'value': 12}, {'label': 'R', 'value':␣
↪3}])
```

Underlying HTML Objects:

- epyk.core.html.HtmlList.Badges

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp https://v4-alpha.getbootstrap.com/components/list-group/

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

item(*text: Optional[str] = None*, *tag: Optional[str] = None*, *options: Optional[dict] = None*) → Li

Add a dynamic and configurable list component.

Usage:

```
l = page.ui.lists.list(["A", "B"])
```

Underlying HTML Objects:

- epyk.core.html.HtmlList.List

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp http://astronautweb.co/snippet/font-awesome/

Parameters

- **text** –
- **tag** –
- **options** –

items(*records: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → Items

Add a JavaScript based list component.

Usage:

```
c = page.ui.lists.items([
  {"text": 'value 1', 'icon': 'fas fa-times', 'checked': True, 'value': 8000},
  {"text": 'value 1', 'icon': 'fas fa-times', 'checked': True, 'value': 50000},
], options={"style": {"background": 'green', 'color': 'white'}})
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py https://github.com/epykure/epyk-templates/blob/master/locals/components/list_custom.py https://github.com/epykure/epyk-templates/blob/master/locals/components/list_filter.py

Parameters

- **records** – Optional. The list of dictionaries with the input data.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **helper** – Optional. A tooltip helper

list(*data=None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a static list component.

Usage:

```
l = page.ui.lists.list(["A", "B"])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlList.List`

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp http://astronautweb.co/snippet/font-awesome/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list_dragdrop.py

Parameters

- **data** – List. Optional. The list items.
- **color** – String. Optional. The font color in the component. Default inherit.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – String. Optional. A tooltip helper.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

lookup(*lookup=None*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, '%')*, *profile: Optional[Union[bool, dict]] = None*, *multiple: bool = False*, *options: Optional[dict] = None*) → Lookup

HTML Select component.

Usage:

```
select1 = page.ui.select([
  {"value": "value 1", "text": "value 1"},
  {"value": "value 2", "text": "value 2"},
])
lookupData = {"value 1": [
  {"value": "A", 'text': "Example 1"},
  {"value": "B", 'text': "Example 2"}
]}
select2 = page.ui.lookup(lookupData)
select1.change([
  select2.build(select1.dom.content)
])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlSelect.Lookup`

Related Pages:

https://silviomoreto.github.io/bootstrap-select/examples/ https://www.npmjs.com/package/bootstrap-select-v4 https://www.jqueryscript.net/form/Bootstrap-4-Dropdown-Select-Plugin-jQuery.html

Parameters

- **lookup** – Dictionary. Optional. The mapping to the list of recs to be loaded.
- **html_code** – Optional. The component identifier code (for bot
- **width** – Tuple. Optional. Integer for the component width
- **height** – Tuple. Optional. Integer for the component height
- **profile** – Optional. A flag to set the component performance storage
- **multiple** – Boolean. To set if the component can handle multiple selections
- **options** – The select options as defined https://developer.snapappointments.com/bootstrap-select/options/

numbers(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Usage:

```
page.ui.lists.numbers(["A", "B"])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlList.List`

Related Pages:

https://www.w3schools.com/html/html_lists.asp https://www.w3.org/wiki/CSS/Properties/list-style-type

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **helper** – Optional. A tooltip helper

pills(*records=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, '%')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Usage:

```
page.ui.lists
```

Parameters

- **records** –
- **width** –
- **height** –
- **options** –
- **html_code** –
- **profile** –
- **helper** –

points(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Usage:

```
page.ui.lists
```

Underlying HTML Objects:

- epyk.core.html.HtmlList.List

Related Pages:

https://www.w3schools.com/html/html_lists.asp

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** –
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

radios(*data=None*, *group_name: str = 'group'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.lists
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlInput.Radio

Parameters

- **data** –
- **group_name** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – String. Optional. A tooltip helper
- **options** – Dictionary. Optional. Specific Python options available for this component
- **profile** – Boolean or Dictionary. Optional. A flag to set the component performance storage

roman(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Underlying HTML Objects:

- epyk.core.html.HtmlList.List

Usage:

```
page.ui.lists
```

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

select(*records=None*, *html_code: Optional[str] = None*, *selected: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, '%')*, *profile: Optional[Union[bool, dict]] = None*, *multiple: bool = False*, *options: Optional[dict] = None*) → Select

HTML Select component.

Usage:

```
records = [
  {"text": 'Text 1', "value": "text 1"},
  {"text": 'Text 2', "value": "text 2"},
  {"text": 'Text 3', "value": "text 3"},
]

select = page.ui.select(records)
```

Underlying HTML Objects:

- `epyk.core.html.HtmlSelect.Select`

Related Pages:

https://silviomoreto.github.io/bootstrap-select/examples/ https://www.npmjs.com/package/bootstrap-select-v4 https://www.jqueryscript.net/form/Bootstrap-4-Dropdown-Select-Plugin-jQuery.html

Parameters

- **records** – Optional. The list of dictionaries with the input data.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **selected** – Optional. The selected value or values.
- **width** – Optional. Integer for the component width.
- **height** – Optional. Integer for the component height.
- **profile** – Optional. A flag to set the component performance storage.
- **multiple** – Optional. To set if the component can handle multiple selections.
- **options** – The select options as defined https://developer.snapappointments.com/bootstrap-select/options/

squares(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.lists.squares(["A", "B"])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlList.List`

Related Pages:

https://www.w3schools.com/cssref/pr_list-style-type.asp

Parameters

- **data** –

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

tree(*data=None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Tree

Usage:

```
data = [{"label": 'test', 'items': [{"label": 'child 1', 'color': 'red'}]}]
page.ui.lists.tree(data)
```

Underlying HTML Objects:

- epyk.core.html.HtmlTrees.Tree

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Media Interface

class epyk.interfaces.components.CompMedia.**Media**(*ui*)

audio(*value: str = ''*, *path: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Add a audio track from the server to the page. The format for the video must be mpeg.

Usage:

```
page.ui.media.video("CWWB3673.mpeg")
```

Underlying HTML Objects:

- epyk.core.html.HtmlMedia.Audio

Related Pages

https://www.w3schools.com/html/html5_video.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/

Parameters

- **value** – Optional. The name of the audio object.
- **path** – Optional. THe path to the audio object.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.

camera(*align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Add a video from the server to the page. The format for the video must be MP4.

Usage:

```
page.ui.media.camera()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlMedia.Camera`

Related Pages:

https://www.w3schools.com/html/html5_video.asp https://www.kirupa.com/html5/accessing_your_webcam_in_html5.htm

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/

Parameters

- **align** – Optional. A string with the horizontal position of the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. The component identifier code (for both Python and Javascript).
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.

video(*value: str = ''*, *align: str = 'center'*, *path: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Add a video from the server to the page. The format for the video must be MP4.

Usage:

```
page.ui.media.video("CWWB3673.MP4")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlMedia.Media`

Related Pages:

https://www.w3schools.com/html/html5_video.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/

Parameters

- **value** – Optional. The name of the video.
- **path** – Optional. THe path to the video.
- **align** – Optional. A string with the horizontal position of the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. The component identifier code (for both Python and Javascript).
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.

youtube(*link: str*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

This will add a youtube video using the shared line to embedded to a website.

Usage:

```
page.ui.media.youtube("https://www.youtube.com/embed/dfiHMtih5Ac")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlMedia.Youtube`

Related Pages

https://www.w3schools.com/html/html5_video.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/

Parameters

- **link** – The youtube link.
- **align** – Optional. A string with the horizontal position of the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. The component identifier code (for both Python and Javascript).
- **profile** – Optional. A flag to set the component performance storage.

- **options** – Optional. A dictionary with the components properties.

Menus Interface

class epyk.interfaces.components.CompMenus.**Menus**(*ui*)

bar(*data=None*, *align: str = 'left'*, *position: str = 'top'*, *color: Optional[str] = None*, *width: Union[tuple, int] = (350, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.menus.bar([
  {"value": "File", "children": [
    {"url": "Test", "text": "Test"}
  ]}
])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlContainer.Grid
- epyk.core.html.HtmlText.Title
- epyk.core.html.HtmlList.List

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp http://astronautweb.co/snippet/font-awesome/

Parameters

- **data** –
- **align** – Optional. A string with the horizontal position of the component
- **position** – Optional. A string with the vertical position of the component
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

bottom(*data: Optional[List[dict]] = None*, *color: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (30, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a menu item at the bottom of the page. The menu will be fixed on the page, always visible.

Usage:

```
page.ui.menus.bottom([{"value": "Menu 1", 'children': ["Item 1", "Item 2"]},
↪"Menu 1 2"])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlText.Title
- epyk.core.html.HtmlList.List

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp http://astronautweb.co/snippet/font-awesome/

Parameters

- **data** – Optional. The top menu values
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

button(*value*, *components: Union[Html, List[Html]]*, *symbol: Optional[str] = None*, *width: Union[tuple, int] = ('auto', '')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Usage:

```
mb = page.ui.menus.button("Value", page.ui.button("sub button"))
mb.items[0].click([page.js.alert(mb.items[0].dom.content)])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlButton.Button

Parameters

- **value** –
- **components** –
- **symbol** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

buttons(*data: Optional[list] = None*, *color: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
bs = page.ui.buttons.buttons(["Button", "Button 2", "Button 3"])
bs[2].click([
  page.js.alert(bs[2].dom.content)
])
```

Underlying HTML Objects:

- epyk.core.html.HtmlButton.Buttons

Parameters

- **data** –
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

contextual(*record: Optional[list] = None*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *visible: bool = False*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Set a bespoke Context Menu on an Item. This will create a popup on the page with action. This component is generic is need to be added to a component to work.

Usage:

```
menu = page.ui.contextual([{"text": 'text', 'event': 'alert("ok")'}])
page.ui.title("Test").attach_menu(menu)
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/contextmenu.py

Parameters

- **record** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **visible** – Optional.
- **options** – Optional. Specific Python options available for this component

- **profile** – Optional. A flag to set the component performance storage

divisor(*data*, *divider: Optional[bool] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Add list of items separated by a symbol (default BLACK_RIGHT_POINTING_TRIANGLE). The components will be based on Links.

Usage:

```
record = []
page.ui.menus.divisor(record)
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlText.link

Parameters

- **data** –
- **divider** – symbols.shape | String. The symbol between the links.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **options** – Dictionary. Optional. Specific Python options available for this component
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage

icons(*data: Optional[List[Union[str, dict]]] = None*, *width=(100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'center'*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Add a menu bar with font awesome icons.

Usage:

```
icons = page.ui.menus.icons([
    "bi-1-circle-fill",
    "bi-search-heart-fill",
    "bi-x-circle-fill",
], options={"icon_family": "bootstrap-icons"})
```

Parameters

- **data** – Optional. Parameter bar icons
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

images(*data: Optional[list] = None*, *path: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'center'*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Usage:

```
page.ui.menus.images(["https://jupyter.org/favicon.ico", "https://codepen.io//
↪favicon.ico"])
```

Parameters

- **path** –
- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. The text-align property within this component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

menu(*data: Optional[list] = None*, *color: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.menus.menu([
  {"value": "File", "children": [
    {"url": "Test", "text": "Test"}
  ]}
])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlContainer.Grid
- epyk.core.html.HtmlText.Title
- epyk.core.html.HtmlList.List

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp http://astronautweb.co/snippet/font-awesome/

Parameters

- **data** –
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

pills(*data: Optional[List] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (50, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Usage:

```
page.ui.pills.
```

Parameters

- **data** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

right(*data=None*, *color: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (30, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.lists.
```

Parameters

- **data** –
- **color** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –
- **helper** –
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

selections(*data*, *width=(150, 'px')*, *height=('auto', '')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Menu using Jquery UI external module.

Usage:

```
page.ui.menus.selections(["Item 1", "Item 2"])

page.ui.menus.selections([
  {'value': "fas fa-exclamation-triangle", 'items': [
    {"value": 'value 1'},
    {"value": 'value 2'},
    {"value": 'value 3'},
  ]},
    "fas fa-exclamation-triangle"])
```

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.Menu

Related Pages:

https://jqueryui.com/menu/

Parameters

- **data** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

toolbar(*data: Optional[list] = None*, *width: Union[tuple, int] = ('auto', '')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Usage:

```
tb = page.ui.menus.toolbar(["fas fa-paint-brush", "fas fa-code"])
tb[1].link.val = 4589
tb[1].tooltip("This is a tooltip")
tb[0].style.css.color = 'red'

# with other icon families
page.ui.menus.toolbar(["face"], options={"icon_family": 'material-design-icons'}
↪)
page.ui.menus.toolbar(["Mail", "AdminALogo32"], options={"icon_family": 'office-
↪ui-fabric-core'})
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div

- epyk.core.html.HtmlImage.Badge

Parameters

- **data** – Optional. The list of icons
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

top(*data: Optional[List[dict]] = None*, *color: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (30, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a menu item at the top of the page. The menu will be fixed on the page, always visible

Usage:

```
page.ui.menus.top([{"value": "Menu 1", 'children': ["Item 1", "Item 2"]},"Menu␣
↪1 2"])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlContainer.Grid
- epyk.core.html.HtmlText.Title
- epyk.core.html.HtmlList.List

Related Pages:

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp http://astronautweb.co/snippet/font-awesome/

Parameters

- **data** – Optional. The top menu values
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Modals Interface

class epyk.interfaces.components.CompModals.**Modals**(*ui*)

acknowledge(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display a popup with a ok button to validate the message has been displayed.

Usage:

```
popup = page.popup(page.ui.title('Test'), color="red")
popup + page.paragraph('Test')
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

dialog(*text*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[Union[HtmlModel, str]] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Simple Jquery UI modal with a text.

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.Dialog

Related Pages:

https://jqueryui.com/dialog/

Usage:

```
:param text: Optional. The value to be displayed to the component.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param helper: Optional. A tooltip helper.
```

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```
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

disclaimer(*disc_list*, *header=None*, *footer=None*, *submit: bool = True*, *validation_text: str = 'AGREE'*, *action: Optional[str] = None*, *add_buttons=None*, *helper: Optional[Union[HtmlModel, str]] = None*)

Disclaimer that will appear as a modal.

Usage:

```
privacy_title = page.ui.texts.title('A privacy reminder', 2)
p1 = page.ui.texts.paragraph('''
  Scroll down and click "%s" when you're ready to continue, or explore other␣
↪options on this page.
  ''' % page.ui.tags.strong('''I agree''', options={'managed': False}))
disc = page.ui.modals.disclaimer([privacy_title, p1])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Modal
- epyk.core.html.HtmlContainer.Row
- epyk.core.html.HtmlButton.Button

Parameters

- **disc_list** –
- **header** –
- **footer** –
- **submit** –
- **validation_text** –
- **action** –
- **add_buttons** –
- **helper** –

error(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display an error popup.

Usage:

```
popup = page.ui.popup(page.ui.title('Test'), color="red")
popup + page.ui.paragraph('Test')
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

forms(*components: Html*, *action: str*, *method: str*, *header=None*, *footer=None*, *helper: Optional[Union[HtmlModel, str]] = None*)

Simple interface to create an html form within a modal

Usage:

```
d = page.ui.fields.today('test')
i = page.ui.fields.input(placeholder='test2', label='test1')
i2 = page.ui.fields.input('test3', label='test2')
form_modal = page.ui.modals.forms([d, i, i2], "http://127.0.0.1:5000", "POST")
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Modal
- epyk.core.html.HtmlContainer.Form

Related Pages:

https://www.w3schools.com/w3css/w3css_modal.asp

Parameters

- **components** –
- **action** –
- **method** –
- **header** –
- **footer** –
- **helper** –

icon(*components: Optional[List[Html]] = None*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display a generic popup with an icon.

Usage:

```
popup = page.popup(page.ui.title('Test'), color="red")
popup + page.paragraph('Test')
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **icon** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

info(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display an info popup.

Usage:

```
popup = page.ui.popup(page.ui.title('Test'), color="red")
popup + page.ui.paragraph('Test')
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

loading(*text: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display a success popup.

Usage:

```
popup = page.ui.popup(page.ui.title('Test'), color="red")
popup + page.ui.paragraph('Test')
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **text** – Optional. The loading text.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

popup(*components: Optional[List[Html]] = None*, *title: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display a generic popup.

Usage:

```
popup = page.ui.modals.popup(page.ui.title('Test'), color="red")
popup.add(page.ui.texts.paragraph('Test'))
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **title** –
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

stepper(*records=None*, *components: Optional[List[Html]] = None*, *shape: str = 'arrow'*, *title: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Parameters

- **records** –
- **components** –
- **shape** –
- **title** –
- **width** –
- **height** –
- **options** –
- **profile** –

success(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display a success popup.

Usage:

```
popup = page.ui.popup(page.ui.title('Test'), color="red")
popup + page.ui.paragraph('Test')
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

validation(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
popup = page.popup(page.ui.title('Test'), color="red")
popup + page.paragraph('Test')
```

Underlying HTML Objects:

- epyk.core.html.HtmlPopup.Popup

Related Pages:

https://www.w3schools.com/tags/tag_div.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modals.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Banners Interface

class epyk.interfaces.components.CompNavigation.**Banners**(*ui*)

bottom(*data: Union[str, list] = ''*, *background=None*, *align='center'*, *width=(100, '%')*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
# Add a banner with HTML content
icon = page.ui.icon("fab fa-python")
text = page.ui.text("This is a text")

# Chang the option to have the content in one line
bottom = page.ui.banners.bottom([icon, text], options={"inline": True})
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/banners.py

Parameters

- **data** –
- **background** – String. Optional. Background color code.
- **align** – String. The text-align property within this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

contact_us(*title='Contact Us'*, *background=None*, *width=(100, '%')*, *align='left'*, *height=(None, 'px')*, *html_code='contactus'*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param title: String. Optional. A panel title. This will be attached to the␣
↪title property.
:param background: String. Optional. Background color code.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

cookies(*text*, *url*, *align='center'*, *width=(100, '%')*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
page.ui.banners.cookies("Test", "#")
```

Parameters

- **text** – String. The value to be displayed to the component.
- **url** – String. The url link.
- **align** – String. The text-align property within this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

corner(*data=''*, *background=None*, *position='bottom'*, *width=(180, 'px')*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
# Add a banner on the bottom right corner
b = page.ui.banners.corner("bottom", 'red')
# Add click event on the banner
b.click([
  # hide the bonner on click
  b.dom.hide()
])

# Add a banner on the top right conner
corner = page.ui.banners.corner("top", 'red', position='top')
# Add interactivity on the banner style
corner.style.hover({"background": "white", 'color': 'red'})
# display the banner
corner.hover([b.dom.show()])
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/banners.py

Parameters

- **data** –
- **background** – String. Optional. Background color code.
- **position** – String. Optional. A string with the vertical position of the component
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **options** – Dictionary. Optional. Specific Python options available for this component
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage

disclaimer(*copyright=None*, *links=None*, *width=(100, '%')*, *height=('auto', '')*, *align='center'*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param copyright:
:param links:
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
```

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```
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

follow(*text*, *width=(100, '%')*, *height=('auto', '')*, *align='left'*, *options=None*, *profile=False*, *youtube=True*, *twitter=True*, *facebook=True*, *twitch=True*, *instagram=True*, *linkedIn=True*)

Tags
Categories

Usage:

```
:param text: String. Optional. The value to be displayed to the component.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param youtube: Boolean. Optional. Add the icon to the follow bar. Default True.
:param twitter: Boolean. Optional. Add the icon to the follow bar. Default True.
:param facebook: Boolean. Optional. Add the icon to the follow bar. Default␣
↪True.
:param twitch: Boolean. Optional. Add the icon to the follow bar. Default True.
:param instagram: Boolean. Optional. Add the icon to the follow bar. Default␣
↪True.
:param linkedIn: Boolean. Optional. Add the icon to the follow bar. Default␣
↪True.
```

info(*data*, *icon='fas fa-info-circle'*, *background=None*, *width=(100, '%')*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param data:
:param icon: String. Optional. The component icon content from font-awesome␣
↪references. Default fas fa-info-circle
:param background: String. Optional. Background color code.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage
```

quote(*content*, *author*, *avatar=None*, *background=None*, *size_notch=0*, *width=(100, '%')*, *align='center'*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param content: String. Optional. The value to be displayed to the component.
:param author:
:param avatar:
:param background: String. Optional. Background color code.
:param size_notch:
:param align: String. Optional. A string with the horizontal position of the␣
↪component
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage
```

row(*headers*, *links*, *size_notch=0*, *background=None*, *width=(100, '%')*, *align='left'*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param headers:
:param links:
:param size_notch:
:param background: String. Optional. Background color code.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

sponsor(*logos*, *title='Sponsors'*, *content=''*, *background=None*, *width=(100, '%')*, *height=('auto', '')*, *align='center'*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param logos:
:param title: String. Optional. A panel title. This will be attached to the␣
```

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```
↪title property.
:param content:
:param background: String. Optional. Background color code.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

text(*data=''*, *size_notch=0*, *background=None*, *width=(100, '%')*, *align='center'*, *height=(None, 'px')*, *options=None*, *html_code=None*, *profile=False*)

Tags
Categories

Usage:

```
:param data:
:param size_notch:
:param background: String. Optional. Background color code.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

title(*title*, *content*, *size_notch=0*, *background=None*, *width=(100, '%')*, *align='center'*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param title:  String. Optional. A panel title. This will be attached to the␣
↪title property.
:param content: String. Optional. The value to be displayed to the component.
:param size_notch:
:param background: String. Optional. Background color code.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
```

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```
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

top(*data=''*, *background=None*, *width=(100, '%')*, *height=(None, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
# to Change the CSS style
top = page.ui.banners.top("text")
top.style.css.font_size = '40px'
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/banners.py

Parameters

- **data** –
- **background** – String. Optional. Background color code.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

NavBars Interface

class epyk.interfaces.components.CompNavigation.**NavBars**(*ui*)

dark(*logo=None*, *title=None*, *width=(100, '%')*, *height=(40, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param logo:
:param title: String. Optional. A panel title. This will be attached to the␣
↪title property.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
```

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```
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

fixed(*logo=None*, *title=None*, *width=(100, '%')*, *height=(40, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param logo:
:param title: String. Optional. A panel title. This will be attached to the␣
↪title property.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

top(*logo=None*, *title=None*, *width=(100, '%')*, *height=(40, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param logo:
:param title: String. Optional. A panel title. This will be attached to the␣
↪title property.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

transparent(*logo=None*, *title=None*, *width=(100, '%')*, *height=(40, 'px')*, *options=None*, *profile=False*)

Tags
Categories

Usage:

```
:param logo:
:param title: String. Optional. A panel title. This will be attached to the␣
↪title property.
```

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```
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

Navigation Interface

class epyk.interfaces.components.CompNavigation.**Navigation**(*ui*)

banner(*image: str = ''*, *text: str = ''*, *link: str = ''*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Union[dict, bool] = False*)

Tags
Categories

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Div
- epyk.core.html.HtmlImage.Image
- epyk.core.html.HtmlContainer.Col
- epyk.core.html.HtmlContainer.Row
- epyk.core.html.HtmlText.Text
- epyk.core.html.HtmlLinks.ExternalLink

Parameters

- **image** – Optional. The image full path
- **text** – Optional. The value to be displayed to the component
- **link** – Optional. The url link
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

bar(*logo=None*, *title=None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (40, 'px')*, *options=None*, *html_code=None*, *avatar: Union[bool, str] = False*, *profile: Union[dict, bool] = False*) → HtmlNavBar

Tags
Categories

Usage:

```
nav = page.ui.navigation.bar(title="test")
nav.add_text("Test text")
nav + page.ui.button("Click")
```

Underlying HTML Objects:

- epyk.core.html.HtmlMenu.HtmlNavBar

Parameters

- **logo** –
- **title** – String. Optional. A panel title. This will be attached to the title property
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **avatar** – Optional.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

dots(*count: int*, *selected: int = 1*, *position: str = 'right'*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Union[dict, bool] = False*)

Tags
Categories

Usage:

```
d = page.ui.navigation.dots(10)
```

Parameters

- **count** – Optional. The number of pages
- **selected** – Optional. The selected index
- **position** – Optional. A string with the vertical position of the component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

down(*icon: str = 'fas fa-arrow-down'*, *top: int = 20*, *right: int = 20*, *bottom: Optional[int] = None*, *tooltip: Optional[str] = None*, *width: Union[tuple, int] = (25, 'px')*, *height: Union[tuple, int] = (25, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Navigation button to go to the bottom of the page directly.

Tags
Categories

Usage:

```
page.ui.navigation.down()
```

Parameters

- **icon** – Optional. The component icon content from font-awesome references. Default fas fa-arrow-up
- **top** – Optional. The top property affects the vertical position of a positioned element
- **right** – Optional. The right property affects the horizontal position of a positioned element
- **bottom** – Optional. The top property affects the vertical position of a positioned element
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

footer(*components=None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (80, 'px')*, *fixed=False*, *options=None*, *profile=False*) → HtmlFooter

Will create a footer object in the body of the report.

Tags
Categories

Usage:

Underlying HTML Objects:

- epyk.core.html.HtmlMenu.HtmlFooter

Parameters

- **components** – list of html components.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **fixed** – Boolean. Optional. Fix the component at the page bottom.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

indices(*count: int*, *selected: int = 1*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Tags
Categories

Usage:

```
page.ui.navigation.indices(10)
```

Parameters

- **count** – Optional. The number of pages
- **selected** – Optional. The selected index
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

more(*text: str = 'See more'*, *icon: Optional[Union[str, bool]] = None*, *width: Union[tuple, int] = ('auto', '')*, *tooltip: Optional[str] = None*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Add a see more button to get the number of calls for a pagination on the server side.

Usage:

```
t = page.ui.text("Rewind")
btn = page.ui.navigation.more()
btn.click([page.js.console.log(btn.dom.next())])
t.click([btn.dom.rewind()])
```

Parameters

- **text** – Optional. The value to be displayed to the button
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. A string with the horizontal position of the component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

nav(*logo=None*, *title: Optional[str] = None*, *components=None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (40, 'px')*, *options: Optional[dict] = None*, *avatar: bool = False*, *profile: Union[dict, bool] = False*) → HtmlNavBar

Tags
Categories

Usage:

```
page.ui.components_skin = {"nav": {"css": {"background-color": 'pink'}}}
nav = page.ui.navigation.nav(height=60, options={"center": True, "logo_height":␣
↪50})
```

Parameters

- **logo** – Optional. The picture for the logo
- **title** – Optional. A panel title. This will be attached to the title property
- **components** – Optional. The Components to be added to the navbar
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **avatar** – Optional. Add a avatar picture to the right in the navbar
- **profile** – Optional. A flag to set the component performance storage

panel(*width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (100, '%')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*) → PanelsBar

Tags
Categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/bars.py

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **helper** – Optional. A tooltip helper

path(*record: List[dict]*, *divider: Optional[str] = None*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Union[dict, bool] = False*)

Tags
Categories

Usage:

```
record = [{"text": "Lin 1", 'url': 'report_list.html'}, {"text": "Link 2"}]
page.ui.navigation.path(record)
```

Parameters

- **record** – Component input data
- **divider** – Optional. A path delimiter

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

pilcrow(*text: str = ''*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add an anchor on the page and move to this when it is clicked.

Tags
Categories

Usage:

```
:param text: Optional. The value to be displayed to the component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

pin(*text: str*, *url: str = '#'*, *icon: str = 'fas fa-map-pin'*, *top: int = 20*, *right: int = 20*, *bottom: Optional[int] = None*, *tooltip: Optional[str] = None*, *width: Union[tuple, int] = (25, 'px')*, *height: Union[tuple, int] = (25, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Shortcut to a specific position in the page.

Tags
Categories

Usage:

```
page.ui.navigation.pin("anchor", tooltip="test", bottom=20)
```

Parameters

- **text** – The shortcut name
- **url** – Optional. The anchor name
- **icon** – Optional. The component icon content from font-awesome references. Default fas fa-arrow-up
- **top** – Optional. The top property affects the vertical position of a positioned element
- **right** – Optional. The right property affects the horizontal position of a positioned element
- **bottom** – Optional. The top property affects the vertical position of a positioned element
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

points(*count: int*, *selected: int = 0*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Union[dict, bool] = False*) → Points

Tags
Categories

Usage:

```
p = page.ui.navigation.points(10)
for i, _ in enumerate(p):
  p.click_item(i, [])
```

Parameters

- **count** – The number of pages
- **selected** – Optional. The selected index
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

scroll(*progress: int = 0*, *height: Union[tuple, int] = (3, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Add a horizontal progressbar to display the status of the page scrollbar.

Tags
Categories

Usage:

```
page.ui.navigation.scroll()
```

Parameters

- **progress** – Optional. The progression on the page
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

shortcut(*components=None*, *logo=None*, *size=(40, 'px')*, *options=None*, *profile=None*, *html_code=None*) → Shortcut

Tags
Categories

Usage:

```
:param components: List. The different HTML objects to be added to the␣
↪component.
:param logo:
:param size: Integer. Optional. Panel's height in pixel.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

side(*components=None*, *anchor=None*, *size=262*, *position='right'*, *options=None*, *profile=False*, *z_index: int = 20*, *overlay: bool = False*)

Tags
Categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/contextmenu.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/st_news.py

Parameters

- **components** – The different HTML objects to be added to the component.
- **anchor** – Optional. The panel button to show / hide.
- **size** – Optional. Panel's width in pixel.
- **position** – Optional. A string with the vertical position of the component.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.
- **z_index** – Optional.
- **overlay** – Optional.

to(*y*, *x: Optional[int] = None*, *icon: str = 'fas fa-map-pin'*, *top: int = 20*, *right: int = 20*, *bottom: Optional[int] = None*, *tooltip: Optional[str] = None*, *width: Union[tuple, int] = (25, 'px')*, *height: Union[tuple, int] = (25, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Navigation button to go to a specific point in the page directly.

Tags
Categories

Usage:

```
page.ui.navigation.to(100, tooltip="test")
```

Parameters

- **y** – The y position on the page
- **x** – Optional. The x position on the page

- **icon** – Optional. The component icon content from font-awesome references. Default fas fa-arrow-up
- **top** – Optional. The top property affects the vertical position of a positioned element
- **right** – Optional. The right property affects the horizontal position of a positioned element
- **bottom** – Optional. The top property affects the vertical position of a positioned element
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

up(*icon: str = 'fas fa-arrow-up'*, *top: int = 20*, *right: int = 20*, *bottom: Optional[int] = None*, *tooltip: Optional[str] = None*, *width: Union[tuple, int] = (25, 'px')*, *height: Union[tuple, int] = (25, 'px')*, *options: Optional[dict] = None*, *profile: Union[bool, dict] = False*)

Navigation button to go to the top of the page directly.

Tags
Categories

Usage:

```
page.ui.navigation.up()
```

Parameters

- **icon** – Optional. The component icon content from font-awesome references. Default fas fa-arrow-up
- **top** – Optional. The top property affects the vertical position of a positioned element
- **right** – Optional. The right property affects the horizontal position of a positioned element
- **bottom** – Optional. The top property affects the vertical position of a positioned element
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Network Interface

class epyk.interfaces.components.CompNetwork.**Network**(*ui*)

alert(*category: str*, *value: str = ''*, *width: Optional[Union[tuple, int, str]] = (320, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, None)*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → Alert

Function to add when the python run some tags to put on the top of your report messages.

The type of the messages can be different according to its criticallity. This is fully defined and #driven in the Python and visible in the browser when the page is ready

All the notification can be hidden directly from the report by setting the flag alerts = False e.g: rptObj.alerts = False

Usage:

```
page.ui.messaging.alert('WARNING', 'Server URL not recognized', 'Please check')
```

Underlying HTML Objects:

- `epyk.core.html.HtmlMessaging.Alert`

Related Pages:

https://getbootstrap.com/docs/4.0/components/alerts/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/alerts.py

Parameters

- **category** – The warning level.
- **value** – Optional. The content of the notification.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

assistant(*image*, *name: str = ''*, *path: Optional[str] = None*, *html_code: Optional[str] = None*, *size: Optional[Union[tuple, int, str]] = (50, 'px')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Assistant

Usage:

```
:param image:
:param name:
:param path:
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side).
:param size: Optional. A tuple with the integer for the component width and its
↪unit.
:param profile: Optional. A flag to set the component performance storage.
:param options: Optional. Specific Python options available for this component.
```

bot(*html_code: str*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Bot

Usage:

```
container = page.ui.network.bot(html_code='bot_service')
```

Underlying HTML Objects:

- epyk.core.html.HtmlMessaging.Bot

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/bot.py

Parameters

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.

chat(*html_code: str*, *record: Optional[List[dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Chat

Usage:

Underlying HTML Objects:

- epyk.core.html.HtmlMessaging.Chat

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/chat.py

Parameters

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **record** – Optional. The Python list of dictionaries.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.

comments(*html_code: str*, *record: Optional[List[dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Comments

Python wrapper to a div item composed to several sub html items to display message

Usage:

```
db = page.db(database="test.db")
page.comments('Test', dbService={'db': db, 'com_table': 'comments', 'reply_table
↪': 'replyComments',
  'reply_service': 'post_reply/url', 'user_coms': 'user_comments', 'privacy':
↪'public', 'service': your/url})
```

Underlying HTML Objects:

- epyk.core.html.HtmlMessaging.Comments

Related Pages:

https://leaverou.github.io/bubbly/ http://manos.malihu.gr/jquery-custom-content-scroller/

Parameters

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **record** – Optional. The Python list of dictionaries.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.

danger(*value: str = ''*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (320, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, None)*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → Alert

Function to add when the python run some tags to put on the top of your report messages.

The type of the messages can be different according to its criticality. This is fully defined and #driven in the Python and visible in the browser when the page is ready

All the notification can be hidden directly from the report by setting the flag alerts = False e.g: rptObj.alerts = False

Usage:

```
page.ui.messaging.alert('danger', 'Server URL not recognized', 'Please check')
```

Underlying HTML Objects:

- `epyk.core.html.HtmlMessaging.Alert`

Related Pages:

https://getbootstrap.com/docs/4.0/components/alerts/

Parameters

- **value** – Optional. The content of the notification.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

download(*name: str*, *icon: Optional[str] = None*, *path: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → IconEdit

Usage:

```
:param name: Optional.
:param icon: Optional. The component icon content from font-awesome references.
:param path: Optional. String. The image file path.
:param width: Optional. A tuple with the integer for the component width and
↪its unit.
:param height: Optional. A tuple with the integer for the component height and
↪its unit.
:param html_code: Optional. The id for this component.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

dropfile(*placeholder: str = ''*, *delimiter: str = 'TAB'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → DropFile

Add an HTML component to drop files. The files will be dropped by default to the OUTPUT folder of the defined environment.

Files will also be recorded in the database in order to ensure that those data will not be shared. The data sharing is and should be defined only by the user from the UI.

Underlying HTML Objects:

- `epyk.core.html.HtmlFiles.DropFile`

Usage:

```
page.ui.network.dropfile()
```

Related Pages:

Parameters

- **placeholder** – Optional. The placeholder text when input empty.
- **delimiter** – Optional. The column delimiter.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **tooltip** – Optional. A string with the value of the tooltip.
- **html_code** – Optional. The id for this component.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

impression(*number: int = 0*, *icon: str = 'fas fa-chart-bar'*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Add an impression component. This is designed to use the viewport function to increment the value,

Usage:

```
page.ui.network.impression()
```

Parameters

- **number** – Optional. The initial value

- **icon** – Optional. The icon text
- **options** – Optional. The number component options
- **html_code** – Optional. The code used on the JavaScript side
- **profile** – Optional. The profiling options

info(*value: str = ''*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (320, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, None)*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → Alert

Function to add when the python run some tags to put on the top of your report messages. The type of the messages can be different according to its criticallity. This is fully defined and #driven in the Python and visible in the browser when the page is ready

Usage:

```
page.ui.messaging.alert('info', 'Server URL not recognized', 'Please check')
```

Underlying HTML Objects:

- epyk.core.html.HtmlMessaging.Alert

Related Pages:

https://getbootstrap.com/docs/4.0/components/alerts/

Parameters

- **value** – Optional. The content of the notification.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

news(*value: str = ''*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (320, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, None)*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → News

Usage:

```
b = page.ui.button("Display")
n = page.ui.messaging.news("This is a title", "This is the content", link_
↪script="TestSlider")
b.click(n.jsGenerate("Updated content", isPyData=True))
```

Underlying HTML Objects:

- epyk.core.html.HtmlMessaging.News

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/st_news.py

Parameters

- **value** – Optional.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

room(*img: str*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (60, 'px')*, *height: Optional[Union[tuple, int, str]] = (60, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → Room

Usage:

```
:param img: Optional. The image path on the server or locally to be used.
:param html_code: Optional. The id for this component.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

success(*value: str = ''*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (320, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, None)*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → Alert

unction to add when the python run some tags to put on the top of your report messages. The type of the messages can be different according to its criticallity. This is fully defined and #driven in the Python and visible in the browser when the page is ready

Usage:

```
page.ui.messaging.alert('success', 'Server URL not recognized', 'Please check')
```

Underlying HTML Objects:

- `epyk.core.html.HtmlMessaging.Alert`

Related Pages:

https://getbootstrap.com/docs/4.0/components/alerts/

Parameters

- **value** – Optional. The content of the notification.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

upload(*icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (25, 'px')*, *height: Optional[Union[tuple, int, str]] = (25, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → IconEdit

Usage:

```
:param icon: Optional. The component icon content from font-awesome references
:param width: Optional. A tuple with the integer for the component width and its unit
:param height: Optional. A tuple with the integer for the component height and its unit
:param html_code: Optional. The id for this component
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

votes(*number: int = 0*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

Add a vote component with two arrows and a number.

Usage:

```
vote = page.ui.network.votes()
vote.up.style.css.cursor = "pointer"
vote.up.click(vote.number.dom.add(1))
vote.down.click(vote.number.dom.add(-1))
```

Parameters

- **number** – Optional. The initial value
- **options** – Optional. The number component options
- **html_code** – Optional. The code used on the JavaScript side
- **profile** – Optional. The profiling options

warning(*value: str = ''*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (320, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, None)*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → Alert

Function to add when the python run some tags to put on the top of your report messages. The type of the messages can be different according to its criticallity. This is fully defined and #driven in the Python and visible in the browser when the page is ready

Usage:

```
page.ui.messaging.alert('warning', 'Server URL not recognized', 'Please check')

danger = page.ui.network.warning()
danger.options.time = None
danger.options.close = True
```

Underlying HTML Objects:

- epyk.core.html.HtmlMessaging.Alert

Related Pages:

https://getbootstrap.com/docs/4.0/components/alerts/

Parameters

- **value** – Optional. The content of the notification.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Numbers Interface

class epyk.interfaces.components.CompNumbers.**Numbers**(*ui*)

digits(*text: Optional[str] = None*, *color: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = None*, *height: Optional[Union[tuple, int, str]] = None*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

The tag is used to group inline-elements in a document.

The tag provides no visual change by itself.

The tag provides a way to add a hook to a part of a text or a part of a document.

Tags
Categories

Usage:

```
page.ui.texts.span("Test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Position

Related Pages:

https://www.w3schools.com/tags/tag_span.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/numbers.py

Parameters

- **text** – Optional. The string value to be displayed in the component.
- **color** – Optional. The color of the text.
- **align** – Optional. The position of the icon in the line (left, right, center).
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **tooltip** – Optional. A string with the value of the tooltip.

- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

dollar(*number: float = 0*, *title: Optional[str] = None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.texts.dollar(289839898, label="test", helper="Ok", icon="fas fa-align-
↪center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Numeric

Parameters

- **number** – Optional. The value to be displayed to the component. Default now.
- **title** – Optional. A panel title. This will be attached to the title property.
- **label** – Optional. The text of label to be added to the component.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **color** – Optional. The font color in the component. Default inherit.
- **tooltip** – Optional. A string with the value of the tooltip.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. A tooltip helper.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The text-align property within this component.
- **profile** – Optional. A flag to set the component performance storage.

euro(*number: float = 0*, *title: Optional[str] = None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.texts.euro(289839898, label="test", helper="Ok", icon="fas fa-align-
↪center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Numeric

Parameters

- **number** – Optional. The value to be displayed to the component. Default now.
- **title** – Optional. A panel title. This will be attached to the title property.
- **label** – Optional. The text of label to be added to the component.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **color** – Optional. The font color in the component. Default inherit.
- **tooltip** – Optional. A string with the value of the tooltip.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. A tooltip helper.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The text-align property within this component.
- **profile** – Optional. A flag to set the component performance storage.

money(*symbol: str*, *number: float = 0*, *title: Optional[str] = None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.texts.money(289839898, label="test", helper="Ok", icon="fas fa-align-
↪center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Numeric

Parameters

- **symbol** – The currency symbol.
- **number** – Optional. The value to be displayed to the component. Default now.
- **title** – Optional. A panel title. This will be attached to the title property.
- **label** – Optional. The text of label to be added to the component.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **color** – Optional. The font color in the component. Default inherit.
- **tooltip** – Optional. A string with the value of the tooltip.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).

- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. A tooltip helper.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The text-align property within this component.
- **profile** – Optional. A flag to set the component performance storage.

move(*current*, *previous=None*, *components=None*, *title: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *color: Optional[str] = None*, *label: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.numbers.move(100, 60, helper="test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextComp.Delta`

Parameters

- **current** – The current value.
- **previous** – Optional. Default the current value and not move.
- **components** – Optional. List of HTML component to be added.
- **title** – Optional. The title definition.
- **align** – Optional. The text-align property within this component.
- **color** – Optional. The text color.
- **label** – Optional. The label for the up and down component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. The value to be displayed to the helper icon.
- **profile** – Optional. A flag to set the component performance storage.

number(*number: float = 0*, *title: Optional[str] = None*, *label: Optional[str] = None*, *icon: Optional[int] = None*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.texts.number(289839898, label="test", helper="Ok", icon="fas fa-align-
↪center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Numeric

Parameters

- **number** – Optional. The value to be displayed to the component. Default now.
- **title** – Optional. A panel title. This will be attached to the title property.
- **label** – Optional. The text of label to be added to the component.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **color** – Optional. The color of the value.
- **tooltip** – Optional. A string with the value of the tooltip.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. A tooltip helper.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – The text-align property within this component.
- **profile** – Optional. A flag to set the component performance storage.

percent(*number: float = 0*, *title: Optional[str] = None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[str] = None*, *helper: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.texts.percent(289839898, label="test", helper="Ok", icon="fas fa-align-
↪center")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Numeric

Parameters

- **number** – Optional. The value to be displayed to the component. Default now.
- **title** – Optional. A panel title. This will be attached to the title property.
- **label** – Optional. The text of label to be added to the component.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **color** – Optional. The color of the value.
- **tooltip** – Optional. A string with the value of the tooltip.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.

- **helper** – Optional. A tooltip helper.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The text-align property within this component.
- **profile** – Optional. A flag to set the component performance storage.

plotly(*value: float = 0*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*)

Tags
Categories

Usage:

Underlying HTML Objects:

- `epyk.core.graph.GraphPlotly.Indicator`

Parameters

- **value** – Optional. Number. a value.
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).

plotly_with_delta(*value*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*)

Tags
Categories

Usage:

Underlying HTML Objects:

- `epyk.core.graph.GraphPlotly.Indicator`

Parameters

- **value** – Number. a value.
- **profile** – Optional. A flag to set the component performance storage.
- **options** – Optional. Specific Python options available for this component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).

pound(*number: float = 0*, *title: Optional[str] = None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *color: Optional[str] = None*, *tooltip: Optional[str] = None*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *align: str = 'center'*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.texts.pound(289839898, label="test", helper="Ok", icon="fas fa-align-
↪center")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Numeric`

Parameters

- **number** – Optional. The value to be displayed to the component. Default now.
- **title** – Optional. A panel title. This will be attached to the title property.
- **label** – Optional. The text of label to be added to the component.
- **icon** – Optional. A string with the value of the icon to display from font-awesome.
- **color** – Optional. The font color in the component. Default inherit.
- **tooltip** – Optional. A string with the value of the tooltip.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. A tooltip helper.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **align** – Optional. The text-align property within this component.
- **profile** – Optional. A flag to set the component performance storage.

Panels Interface

class `epyk.interfaces.components.CompPanels.`**Panels**(*ui*)

arrows_down(*color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Python wrapper for a multi Tabs component.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.TabsArrowsDown`

Related Pages:

https://getbootstrap.com/docs/4.0/components/navs/

Usage:

```
:param color: Optional. The font color in the component. Default inherit.
:param width: Optional. A tuple with the integer for the component width and
↪its unit.
:param height: Optional. A tuple with the integer for the component height and
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

arrows_up(*color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Python wrapper for a multi Tabs component.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.TabsArrowsUp`

Related Pages:

https://getbootstrap.com/docs/4.0/components/navs/

Usage:

```
:param color: Optional. The font color in the component. Default inherit.
:param width: Optional. A tuple with the integer for the component width and
↪its unit.
:param height: Optional. A tuple with the integer for the component height and
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

boxes(*color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*)

Python wrapper to the Bootstrap rectangle boxes interface.

Tags
Categories

Usage:

```
tab = page.ui.panels.boxes()
for i in range(5):
  tab.add_panel("Panel %s" % i, rptObj.ui.text("test %s" % i))
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Tabs

Related Pages:

https://getbootstrap.com/docs/4.0/components/navs/

Parameters

- **color** – Optional. The font color in the component. Default inherit.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. The text-align property within this component.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

filters(*items=None*, *category: str = 'group'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (60, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Chip component with only the filtering section.

Tags
Categories

Usage:

```
filters = page.ui.panels.filters()
```

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.Filters

Related Pages:

https://www.w3schools.com/howto/howto_css_contact_chips.asp

Parameters

- **items** – Optional.
- **category** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).

- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

hamburger(*components: Optional[List[Html]] = None*, *title: Union[str, dict] = ''*, *color: Optional[str] = None*, *align: str = 'center'*, *width=(100, '%')*, *height=(None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Union[dict, bool] = False*)

Add hamburger panel.

Tags
Categories

Usage:

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.PanelSlide

Parameters

- **components** – Optional. The different HTML objects to be added to the component.
- **title** – Optional. A panel title. This will be attached to the title property.
- **color** – Optional. The font color in the component. Default inherit.
- **align** – Optional. The text-align property within this component (Default center).
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

menu(*color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Python wrapper to the Bootstrap Pills interface.

Tags
Categories

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.Tabs

Related Pages:

https://getbootstrap.com/docs/4.0/components/navs/

Usage:

```
:param color: Optional. The font color in the component. Default inherit.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

nav(*width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (100, '%')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Tags
Categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/bars.py

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. A dictionary with the components properties.
- **profile** – Optional. A flag to set the component performance storage.
- **helper** – Optional. A tooltip helper.

panel(*components: Optional[List[Html]] = None*, *title: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*)

Add a simple div panel to the page.

Tags
Categories

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Panel`

Usage:

```
:param components: Optional. The different HTML objects to be added to the␣
↪component.
:param title: Optional. A panel title. This will be attached to the title␣
↪property.
:param color: Optional. The font color in the component. Default inherit.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
```

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```
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

pills(*color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*)

Python wrapper to the Bootstrap Pills interface.

Tags
Categories

Usage:

```
tab = page.ui.panels.pills()
for i in range(5):
  tab.add_panel("Panel %s" % i, rptObj.ui.text("test %s" % i))
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Tabs`

Related Pages:

https://getbootstrap.com/docs/4.0/components/navs/

Parameters

- **color** – Optional. The font color in the component. Default inherit.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **align** – Optional. The text-align property within this component.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

sliding(*components*, *title*, *color: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*) → PanelSlide

Add a sliding panel.

TODO: Animate the CSS to make a transition.

Tags
Categories

Usage:

```
text = page.ui.text("Test")
page.ui.panels.sliding([text], title="Panel title")
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.PanelSlide

Parameters

- **components** – Optional. The different HTML objects to be added to the component.
- **title** – Optional. A panel title. This will be attached to the title property.
- **color** – Optional. The font color in the component. Default inherit.
- **align** – Optional. The text-align property within this component (Default center).
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

property slidings

More custom sliding panels.

split(*left: Optional[Html] = None*, *right: Optional[Html] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *left_width: Optional[Union[tuple, int, str]] = (160, 'px')*, *resizable: bool = True*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → PanelSplit

Tags
Categories

Usage:

```
number = page.ui.rich.number(500, "Test", height=(150, 'px'))
number_2 = page.ui.rich.number(500, "Test 2 ", options={"url": "http://www.
↪google.fr"})
div = page.ui.layouts.panelsplit(left=number, right=number_2)
```

Underlying HTML Objects:

- epyk.core.html.HtmlContainer.PanelSlide

Related Pages:

https://codepen.io/rstrahl/pen/eJZQej

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.

- **left_width** – Optional.
- **left** – Optional.
- **right** – Optional.
- **resizable** – Optional.
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

tabs(*color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Python wrapper for a multi Tabs component.

Tags
Categories

Usage:

```
tab = page.ui.panels.tabs()
for i in range(5):
  tab.add_panel("Panel %s" % i, rptObj.ui.text("test %s" % i))
```

Underlying HTML Objects:

- `epyk.core.html.HtmlContainer.Tabs`

Related Pages:

https://getbootstrap.com/docs/4.0/components/navs/

Parameters

- **color** – Optional. The font color in the component. Default inherit.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Slidings Interface

class epyk.interfaces.components.CompPanels.**Slidings**(*ui*)

left(*components: List[Html]*, *title: str = ''*, *color: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Sliding panels with the arrow on the left.

Tags
Categories

Usage:

```
:param components: The different HTML objects to be added to the component.
:param title: Optional. A panel title. This will be attached to the title␣
↪property.
:param color: Optional. The font color in the component. Default inherit.
:param align: The text-align property within this component.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

plus(*components*, *title: str = ''*, *color: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Same component than sliding with a different style.

Tags
Categories

Usage:

```
:param components: The different HTML objects to be added to the component.
:param title: Optional. A panel title. This will be attached to the title␣
↪property.
:param color: Optional. The font color in the component. Default inherit.
:param align: Optional. The text-align property within this component.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

right(*components: List[Html]*, *title: str = ''*, *color=None*, *align='center'*, *width=(100, '%')*, *height=(None, 'px')*, *html_code=None*, *helper=None*, *options=None*, *profile=False*)

Sliding panels with the arrow on the right.

Tags
Categories

Usage:

```
:param components: The different HTML objects to be added to the component.
:param title: Optional. A panel title. This will be attached to the title␣
↪property.
:param color: Optional. The font color in the component. Default inherit.
:param align: Optional. The text-align property within this component.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param helper: Optional. A tooltip helper.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

Pictogram Interface

class epyk.interfaces.components.CompPictos.**Pictogram**(*ui*)

arrow(*width=(21, 'px')*, *height=(12, 'px')*)

Usage:

```
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
```

compass(*fill=None*, *border=None*, *width=(33, 'px')*, *height=(25, 'px')*)

Usage:

Related Pages:

https://uxwing.com/compass-icon/

Parameters

- **fill** –
- **border** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

faq(*fill=None*, *border=None*, *width=(33, 'px')*, *height=(25, 'px')*)

Usage:

Related Pages:

https://uxwing.com/faq-icon/

Parameters

- **fill** –
- **border** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

flam(*width=(619, 'px')*, *height=(423, 'px')*)

Usage:

```
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
```

path(*path*, *fill=None*, *stroke=None*, *width=(33, 'px')*, *height=(25, 'px')*, *viewbox=(150, 100)*, *options=None*, *profile=None*)

Usage:

```
:param path:
:param fill:
:param stroke:
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param viewbox:
:param options:
:param profile:
```

paths(*paths*, *fill=None*, *stroke=None*, *width=(33, 'px')*, *height=(25, 'px')*, *viewbox=(150, 100)*)

Usage:

```
:param paths:
:param fill:
:param stroke:
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param viewbox:
```

people(*fill=None*, *border=None*, *width=(20, 'px')*, *height=(48, 'px')*)

Usage:

```
:param fill:
:param border:
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
```

quote(*fill=None*, *border=None*, *width=(33, 'px')*, *height=(25, 'px')*)

Usage:

```
:param fill:
:param border:
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
```

stack(*fill=None*, *border=None*, *width=(33, 'px')*, *height=(25, 'px')*)

Usage:

Related Pages:

https://uxwing.com/stack-icon/

Parameters

- **fill** –
- **border** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

team(*fill=None*, *border=None*, *width=(50, 'px')*, *height=(30, 'px')*)

Usage:

Related Pages:

https://uxwing.com/business-team-icon/

Parameters

- **fill** –
- **border** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

tick(*fill=None*, *border=None*, *width=(30, 'px')*, *height=(30, 'px')*)

Usage:

Related Pages:

https://uxwing.com/check-mark-icon/

Parameters

- **fill** –
- **border** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

Poller Interface

class epyk.interfaces.components.CompPollers.**Poller**(*ui*)

live(*time*, *js_funcs=None*, *components=None*, *icon: str = 'circle'*, *width: Union[tuple, int] = (15, 'px')*, *height: Union[tuple, int] = (15, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*)

Tags
Categories

Usage:

```
:param time: Integer. Interval time in second.
:param js_funcs: String | List. The Javascript functions.
:param components: List. HTML components to be triggered when activated.
:param icon: String. Optional. The font awesome icon reference.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

toggle(*time*, *js_funcs=None*, *components=None*, *label: Optional[str] = None*, *color: Optional[str] = None*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (20, 'px')*, *align: str = 'left'*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param time: Integer. Interval time in second.
:param js_funcs: String | List. The Javascript functions.
:param components: List. HTML components to be triggered when activated.
:param label: String. Optional. The text of label to be added to the component
:param color: String. Optional. The font color in the component. Default␣
↪inherit.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param align: String. Optional. A string with the horizontal position of the␣
↪component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
:param options: Dictionary. Optional. Specific Python options available for␣
```

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```
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

Rich Interface

class epyk.interfaces.components.CompRich.**Rich**(*ui*)

adv_text(*section*, *title*, *content*, *background: str = ''*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param section:
:param title: String | Component. Optional. A panel title. This will be␣
↪attached to the title property.
:param content:
:param background:
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

color(*code*, *content: str = 'data copied to clipboard'*, *width: Optional[Union[tuple, int, str]] = (20, 'px')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Color component.

Tags
Categories

Usage:

```
:param code: Tuple or String. The color code.
:param content: Optional.
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

composite(*schema*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[bool, dict]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Composite bespoke object.

This object will be built based on its schema. No specific CSS Style and class will be added to this object. The full definition will be done in the nested dictionary schema.

Tags
Categories

Usage:

```
schema = {'type': 'div', 'css': {}, 'class': , 'attrs': {} 'arias': {},
↪'children': [
    {'type': : {...}}
    ...
]}
```

Parameters

- **schema** – The component nested structure.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. The value to be displayed to the helper icon.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

console(*content: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display an component to show logs.

Tags
Categories

Usage:

```
c = page.ui.rich.console(
  "* This is a log section for all the events in the different buttons *",␣
↪options={"timestamp": True})
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Console`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/checkbox.py

Parameters

- **content** – Optional. The console content.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

countdown(*day*, *month*, *year*, *hour: int = 0*, *minute: int = 0*, *second: int = 0*, *label: Optional[str] = None*, *icon: str = 'fas fa-stopwatch'*, *time_ms_factor: int = 1000*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a countdown to the page and remove the content if the page has expired.

Tags
Categories

Usage:

```
page.ui.rich.countdown(24, 9 2021)
```

Underlying HTML Objects:

- `epyk.core.html.HtmlDates.CountDownDate`

Related Pages:

https://www.w3schools.com/js/js_date_methods.asp https://www.w3schools.com/howto/howto_js_countdown.asp https://fontawesome.com/icons/stopwatch?style=solid

Parameters

- **day** – Day's number.
- **month** – Month's number.
- **year** – Year's number.
- **hour** – Optional. Number of hours.
- **minute** – Optional. Number of minutes.
- **second** – Optional. Number of seconds.
- **label** – Optional. The component label content.
- **icon** – Optional. The component icon content from font-awesome references.
- **time_ms_factor** – Optional. The format from the format in milliseconds.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. The component identifier code (for both Python and Javascript).
- **helper** – Optional. A tooltip helper.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

delta(*record=None*, *components=None*, *title: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
page.ui.rich.delta({'number': 100, 'prevNumber': 60, 'thresold1': 100,
↪'thresold2': 50}, helper="test")
```

Underlying HTML Objects:

- epyk.core.html.HtmlTextComp.Delta

Tags
Numbers |

Categories
Container |

Parameters

- **record** – Optional. The input data for this component.
- **components** – Optional. The HTML components to be added to this component.
- **title** – Optional. A panel title. This will be attached to the title property.
- **align** – The text-align property within this component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. A tooltip helper.
- **profile** – Optional. A flag to set the component performance storage.

elapsed(*day: Optional[int] = None*, *month: Optional[int] = None*, *year: Optional[int] = None*, *label=None*, *icon=None*, *width=(None, 'px')*, *height=(None, 'px')*, *html_code=None*, *helper=None*, *options=None*, *profile=None*)

Tags
Categories

Usage:

```
dt = page.ui.rich.elapsed(day=1, month=1, year=2021)
page.ui.button("Click").click([dt.build({"year": 2022, "month": 1, "day": 1})])
```

Parameters

- **day** – The day number
- **month** – The month number [1, 12]
- **year** – The year number
- **label** –
- **icon** –
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – String. Optional. The value to be displayed to the helper icon.
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

info(*text: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display an info icon with a tooltip.

Tags
Categories

Usage:

```
page.ui.info("Test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlOthers.Help`

Related Pages:

https://fontawesome.com/icons/question-circle?style=solid https://api.jqueryui.com/tooltip/

Parameters

- **text** – Optional. The content of the tooltip.
- **profile** – Optional. A boolean to store the performances for each components.
- **options** – Optional. Specific Python options available for this component.

light(*color: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *label: Optional[str] = None*, *align: str = 'left'*, *tooltip: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a traffic light component to give a visual status of a given process.

Tags
Categories

Usage:

```
page.ui.rich.light("red", label="label", tooltip="Tooltip", helper="Helper")
page.ui.rich.light(True)
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextComp.TrafficLight`

Parameters

- **color** – Optional. A hexadecimal color code.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **label** – Optional. The text of label to be added to the component.
- **align** – Optional. A string with the horizontal position of the component.
- **tooltip** – Optional. A string with the value of the tooltip.
- **helper** – Optional. The filtering properties for this component.
- **options** – Optional. Specific Python options available for this component.

- **profile** – Optional. A flag to set the component performance storage.

markdown(*text: str = ''*, *width: Optional[Union[tuple, int, str]] = ('calc(100% - 10px)', '')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → MarkdownReader

Tags
Categories

Usage:

```
md = page.ui.rich.markdown('''
  # H1
  ## H2
  ### value
  #### rrr
  ##### H5
  ###### H6
  value
  ''')
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextEditor.Editor`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/markdown.py

Parameters

- **text** – Optional. The value to be displayed to the component.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

powered(*by=None*, *width=(100, '%')*, *height=(None, 'px')*, *options=None*, *profile=None*)

Display badges for the specifies JavaScript modules.

Tip: If by is None. This will display only the main JavaScript module with the current version. It will not display the underlying components.

This component needs to be called at the end to ensure all the imported will be registered.

Tags
Categories
Parameters

- **by** – List. Optional. Name of JavaScript library aliases.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

search_input(*text: str = ''*, *placeholder: str = 'Search..'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *extensible: bool = False*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Search bar.

Tags
Categories

Usage:

```
page.ui.inputs.search()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlInput.Search`

Related Pages:

https://www.w3schools.com/howto/tryit.asp?filename=tryhow_css_anim_search

Parameters

- **text** – Optional. The value to be displayed to the component.
- **placeholder** – Optional. The text display when empty.
- **color** – Optional. The font color in the component. Default inherit.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **tooltip** – Optional. A string with the value of the tooltip.
- **extensible** – Optional. Flag to specify the input style.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

search_results(*records=None*, *results_per_page: int = 20*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Display the search results. This will return the matches and the details.

Tags
Categories

Usage:

Underlying HTML Objects:

- `epyk.core.html.HtmlTextComp.SearchResult`

Parameters

- **records** – Optional. The list of dictionaries with the input data.
- **results_per_page** – Optional. The page index.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

stars(*val=None*, *label: Optional[str] = None*, *color: Optional[str] = None*, *align: str = 'left'*, *best: int = 5*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Entry point for the Stars component.

Tags
Categories

Usage:

```
page.ui.rich.stars(3, label="test", helper="This is a helper")
stars = page.ui.rich.stars(3, label="test", helper="This is a helper")
stars.click()
```

Underlying HTML Objects:

- `epyk.core.html.HtmlOthers.Stars`

Related Pages:

https://www.w3schools.com/howto/howto_css_star_rating.asp

Parameters

- **val** – Optional. Number of stars.
- **label** – Optional. The text of label to be added to the component.
- **color** – Optional. The font color in the component. Default inherit.
- **align** – Optional. A string with the horizontal position of the component.
- **best** – Optional. The max number of stars. Default 5.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. The value to be displayed to the helper icon.
- **profile** – Optional. A flag to set the component performance storage.

status(*status: str*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param status:
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit.
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit.
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side).
:param profile: Optional. A flag to set the component performance storage.
:param options: Optional. Specific Python options available for this component.
```

update(*label: Optional[str] = None*, *color: Optional[str] = None*, *align: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Last Update time component.

Tags
Categories

Usage:

```
page.ui.rich.update("Last update: ")

update = page.ui.rich.update()
page.ui.button("Click").click([update.refresh()])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlDates.LastUpdated`

Related Pages:

https://github.com/epykure/epyk-templates/blob/master/locals/components/calendar.py

Parameters

- **label** – Optional. The label to be displayed close to the date. Default Last Update.
- **color** – Optional. The color code for the font.
- **align** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. The component identifier code (for both Python and Javascript).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Sliders Interface

class epyk.interfaces.components.CompSliders.**Sliders**(*ui*)

This module is relying on some Jquery IU components

The slider and progress bar components can be fully described on the corresponding website

- https://jqueryui.com/progressbar/
- https://jqueryui.com/slider/

As this module will return those object, all the properties and changes defined in the documentation can be done.

date(*value=None*, *minimum: Optional[float] = None*, *maximum: Optional[float] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.SliderDate

Parameters

- **value** – Optional. The initial value
- **minimum** – Optional. The min value
- **maximum** – Optional. The max value
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

date_range(*value1: Optional[str] = None*, *value2: Optional[str] = None*, *minimum: Optional[float] = None*, *maximum: Optional[float] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.SliderDate

Parameters

- **value1** – Optional. The initial min value
- **value2** – Optional. The initial max value
- **minimum** – Optional. The min value

- **maximum** – Optional. The max value
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

lower(*value=None*, *minimum: float = 0*, *maximum: float = 100*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

Underlying HTML Objects:

- `epyk.core.html.HtmlEvent.Range`

Parameters

- **value** – Optional. The initial value
- **minimum** – Optional. The min value. Default 0
- **maximum** – Optional. The max value. Default 100
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

progress(*number: float = 0*, *total: float = 100*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

```
:param number: Optional. The initial value
:param total: Optional. The total value
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param helper: Optional. A tooltip helper
```

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```
:param profile: Optional. A flag to set the component performance storage
:param options: Optional. Specific Python options available for this component
```

progressbar(*number: float = 0*, *total: float = 100*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a progress bar component to the page

Usage:

```
page.ui.sliders.progressbar(300)
```

Underlying HTML Objects:

- `epyk.core.html.HtmlEvent.ProgressBar`

Related Pages:

https://jqueryui.com/progressbar/

Parameters

- **number** – Optional. The initial value
- **total** – Optional. The total value
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

range(*values=None*, *minimum: float = 0*, *maximum: float = 100*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

Underlying HTML Objects:

- `epyk.core.html.HtmlEvent.Range`

Parameters

- **values** – Optional. The initial values
- **minimum** – Optional. The min value. Default 0
- **maximum** – Optional. The max value. Default 100
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

slider(*number: float = 0*, *minimum: float = 0*, *maximum: float = 100*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Slider

Add a Jquery UI slider object to the page

Usage:

```
page.ui.slider(40)
page.ui.slider([1, 2, 3, 4, 5, 6, 7])

# With even and circle progress
text = page.ui.pyk.progress.circle()
s = page.ui.slider(54)
page.ui.row([text, s])
s.output = text
s.options.slide()
```

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.Slider

Related Pages:

https://jqueryui.com/slider/

Parameters

- **number** – Optional. The initial value
- **minimum** – Optional. The min value. Default 0
- **maximum** – Optional. The max value. Default 100
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

upper(*value=None*, *minimum: float = 0*, *maximum: float = 100*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (20, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Usage:

Underlying HTML Objects:

- epyk.core.html.HtmlEvent.Range

Parameters

- **value** – Optional. The initial value
- **minimum** – Optional. The min value. Default 0
- **maximum** – Optional. The max value. Default 100
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

Steppers Interface

class epyk.interfaces.components.CompSteps.**Steppers**(*ui*)

Tags Interface

class epyk.interfaces.components.CompTags.**Tags**(*ui*)

a(*text: str*, *url: str*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <a> tag defines a hyperlink, which is used to link from one page to another.

The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGenericLink

Related Pages:

https://www.w3schools.com/tags/tag_a.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/paragraph.py

Usage:

```
:param text: String with the content to be added to the component.
:param url: String. Specifies the URL of the page the link goes to.
:param width: Tuple with the width value and its unit.
:param height: Tuple with the height value and its unit.
:param html_code: String. The code reference of the component.
:param tooltip: String. The tooltip to be display on the component.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean flag to set the profiling mode for the component.
```

abbr(*text: str*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <abbr> tag defines an abbreviation or an acronym, like “HTML”, “Mr.”, “Dec.”, “ASAP”, “ATM”.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_abbr.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

aside(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <aside> tag defines some content aside from the content it is placed in.

The aside content should be related to the surrounding content.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGenericLink`

Related Pages:

https://www.w3schools.com/tags/tag_aside.asp

Parameters

- **text** – String with the content to be added to the component.
- **width** – Tuple with the width value and its unit.
- **height** – Tuple with the height value and its unit.
- **html_code** – String. The code reference of the component.

- **tooltip** – String. The tooltip to be display on the component.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component.

b(*text: str*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <b> tag specifies bold text without any extra importance.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_b.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

bdi(*text*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

BDI stands for Bi-Directional Isolation. The <bdi> tag is new in HTML5.

Usage:

```
bdi = rptObj.ui.tags.bdi("bdi tag")
bdi.click(rptObj.js.alert("test"))
bdi.css({'cursor': 'pointer'})
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_bdi.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component

- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

bdo(*text: str*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

bdo stands for Bi-Directional Override. The <bdo> tag is used to override the current text direction.

Usage:

```
bdo = rptObj.ui.tags.bdo("bdo tag")
```

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_bdo.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

cite(*text: str*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <cite> tag defines the title of a work (e.g. a book, a song, a movie, a TV show, a painting, a sculpture, etc.).

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_cite.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component

- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

comment(*text: str*)

Add an HTML comment to the code

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlComment

Parameters
text – String with the content to be added to the component

delete(*text: str*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

dfn(*text: str*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <dfn> tag represents the defining instance of a term in HTML.

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_dfn.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **profile** – Boolean flag to set the profiling mode for the component

em(*text: str*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The tag is a phrase tag. It renders as emphasized text.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_em.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

figcaption(*text: str = ''*, *width=(None, '%')*, *height=(None, 'px')*, *html_code=None*, *tooltip=''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <figcaption> tag defines a caption for a <figure> element.

The <figcaption> element can be placed as the first or last child of the <figure> element.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGenericLink`

Related Pages:

https://www.w3schools.com/tags/tag_figcaption.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

h1(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <h1> to <h6> tags are used to define HTML headings.

<h1> defines the most important heading. <h6> defines the least important heading.

Underlying HTML Objects:

- :class:`epyk.core.html.HtmlTags.HtmlGeneric`s

Related Pages:

https://www.w3schools.com/tags/tag_hn.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

h2(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <h1> to <h6> tags are used to define HTML headings.

<h1> defines the most important heading. <h6> defines the least important heading.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_hn.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

h3(*text: str = ''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <h1> to <h6> tags are used to define HTML headings.

<h1> defines the most important heading. <h6> defines the least important heading.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_hn.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

hn(*level: int*, *text: str*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <h1> to <h6> tags are used to define HTML headings.

<h1> defines the most important heading. <h6> defines the least important heading.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_hn.asp

Parameters

- **level** – Integer.
- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

i(*text*, *width: Union[tuple, int] = (None, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <i> tag defines a part of text in an alternate voice or mood. The content of the <i> tag is usually displayed in italic.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_i.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

ins(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <ins> tag defines a text that has been inserted into a document.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_ins.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

kbd(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <kbd> tag is a phrase tag. It defines keyboard input.

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_kbd.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

label(*text: str = ''*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <label> tag defines a label for several elements.

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_label.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

mark(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <mark> tag defines marked text.

Use the <mark> tag if you want to highlight parts of your text.

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_mark.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

meter(*text: str*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <meter> tag defines a scalar measurement within a known range, or a fractional value. This is also known as a gauge.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_meter.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

nav(*text: Optional[str] = None*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The HTML <nav> element represents a section of a page whose purpose is to provide navigation links, either within the current document or to other documents. Common examples of navigation sections are menus, tables of contents, and indexes.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://fr.w3docs.com/apprendre-html/html-tag-nav.html https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nav

Parameters

- **text** – String with the content to be added to the component

- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

no_tag(*text: str = ''*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Dummy HTML without any tag to add this to the list of a container objects.

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

ol(*text=''*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <ol> tag defines an ordered list. An ordered list can be numerical or alphabetical.

Use the <li> tag to define list items.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_ol.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

p(*text=''*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

A paragraph is marked up as follows with the tag: This is some text in a paragraph.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_p.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

q(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <q> tag defines a short quotation.

Browsers normally insert quotation marks around the quotation.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_q.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

s(*text*, *width=(100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <s> tag specifies text that is no longer correct, accurate or relevant.

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_s.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **tooltip** – String. The tooltip to be display on the component
- **profile** – Boolean flag to set the profiling mode for the component

samp(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <samp> tag is a phrase tag. It defines sample output from a computer program.

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_samp.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

small(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <small> tag defines smaller text (and other side comments).

Underlying HTML Objects:

- epyk.core.html.HtmlTags.HtmlGeneric

Related Pages:

https://www.w3schools.com/tags/tag_small.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

span(*text: str = ''*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The tag is an inline container used to mark up a part of a text, or a part of a document.

The tag is easily styled by CSS or manipulated with JavaScript using the class or id attribute.

The tag is much like the element, but is a block-level element and is an inline element.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_span.asp

Usage:

```
s2 = page.ui.tags.span('''
  Value Formatter €
  A Value Formatter is
  ''', options={"multiline": True})
```

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

strong(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The tag is a phrase tag. It defines important text.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_strong.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

sub(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <sub> tag defines subscript text. Subscript text appears half a character below the normal line, and is sometimes rendered in a smaller font. Subscript text can be used for chemical formulas, like H2O.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_sub.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

sup(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <sup> tag defines superscript text. Superscript text appears half a character above the normal line, and is sometimes rendered in a smaller font. Superscript text can be used for footnotes, like WWW

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_sup.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

time(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <time> tag defines a human-readable date/time.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_time.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

u(*text*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Underline a misspelled word with the <u> tag: This is a <u>paragraph</u>.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_u.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component

- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

var(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <var> tag also supports the Global Attributes in HTML.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_var.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

wbr(*text*, *width: Union[tuple, int] = (100, 'px')*, *height: Union[tuple, int] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <wbr> (Word Break Opportunity) tag specifies where in a text it would be ok to add a line-break.

Underlying HTML Objects:

- `epyk.core.html.HtmlTags.HtmlGeneric`

Related Pages:

https://www.w3schools.com/tags/tag_wbr.asp

Parameters

- **text** – String with the content to be added to the component
- **width** – Tuple with the width value and its unit
- **height** – Tuple with the height value and its unit
- **html_code** – String. The code reference of the component
- **tooltip** – String. The tooltip to be display on the component
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean flag to set the profiling mode for the component

TextReferences Interface

class epyk.interfaces.components.CompTexts.**TextReferences**(*ui*)

book(*text*, *author=None*, *name=None*, *edition=None*, *year=None*, *page=None*, *html_code=None*, *profile=None*, *options=None*)

Shortcut to quote an extra from a book.

Tags
Categories

Usage:

Related Pages:

Parameters

- **text** – String. Optional. The text of the quote.
- **author** – String. Optional. The author.
- **name** – String. Optional.
- **edition** –
- **year** –
- **page** –
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **options** – Dictionary. Optional. Specific Python options available for this component.

github(*url=None*, *html_code=None*, *profile=None*, *options=None*)

Shortcut to data reference from github.

Tags
Categories

Usage:

Related Pages:

https://en.wikipedia.org/wiki/Wikipedia:Citing_sources https://apastyle.apa.org/style-grammar-guidelines/references/examples/webpage-website-references

Parameters

- **url** – String. Optional. The url link to the data.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **options** – Dictionary. Optional. Specific Python options available for this component.

website(*author=None*, *name=None*, *site=None*, *url=None*, *html_code=None*, *profile=None*, *options=None*)

Shortcut to data reference from another website.

Tags
Categories

Usage:

Related Pages:

https://en.wikipedia.org/wiki/Wikipedia:Citing_sources https://apastyle.apa.org/style-grammar-guidelines/references/examples/webpage-website-references

Parameters

- **author** – String. Optional. The author.
- **name** – String. Optional. The name of the page.
- **site** – String. Optional. The website name.
- **url** – String. Optional. The url link to the data.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **options** – Dictionary. Optional. Specific Python options available for this component.

Texts Interface

class epyk.interfaces.components.CompTexts.**Texts**(*ui*)

absolute(*text: str*, *size_notch: Optional[int] = None*, *top: Optional[Union[tuple, int, str]] = (50, '%')*, *left: Optional[Union[tuple, int, str]] = (50, '%')*, *bottom: Optional[Union[tuple, int, str]] = None*, *align: str = 'left'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Text

Tags
Categories

Usage:

```
:param text: Optional. The value to be displayed to the component
:param size_notch:
:param top: Optional. A tuple with the integer for the component's distance to␣
↪the top of the page
:param left: Optional. A tuple with the integer for the component's distance to␣
↪the left of the page
:param bottom: Optional. A tuple with the integer for the component's distance␣
↪to the bottom of the page
:param align: Optional. The text-align property within this component
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
```

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```
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

alert(*text: Optional[str] = None*, *title: Optional[str] = None*, *icon: Optional[str] = None*, *category: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('400', 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

Tags
Categories

Usage:

```
page.ui.texts.highlights("Test content", title="Test", icon="fab fa-angellist")
page.ui.texts.highlights("Server configuration at: %s" % SERVER_PATH,  icon=
↪"fas fa-exclamation-triangle")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Highlights`

Related Pages:

https://getbootstrap.com/docs/4.3/components/alerts/

Parameters

- **text** – Optional. The string value to be displayed in the component
- **title** – Optional.
- **icon** – Optional. The component icon content from font-awesome references
- **category** – Optional. The type of the warning. Can be (primary, secondary, success, danger, warning, info, light, dark). Default danger
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

block(*text: str = ''*, *color: Optional[str] = None*, *align: str = 'left'*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Text

Add the HTML text component to the page.

Tags
Categories

Usage:

```
page.ui.text("this is a test")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Text`

Related Pages:

https://www.w3schools.com/tags/tag_font.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/banners.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/contextmenu.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/markdown.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/postit.py

Parameters

- **text** – Optional. The string value to be displayed in the component.
- **color** – Optional. The color of the text.
- **align** – Optional. The position of the icon in the line (left, right, center).
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **tooltip** – Optional. A string with the value of the tooltip.
- **options** – Optional. Specific Python options available for this component.
- **helper** – Optional. The value to be displayed to the helper icon.
- **profile** – Optional. A flag to set the component performance storage.

blockquote(*text: Optional[str] = None*, *author: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → BlockQuote

The <blockquote> tag specifies a section that is quoted from another source. Browsers usually indent <blockquote> elements.

Tags
Categories

Usage:

```
page.ui.texts.blockquote("This is a code")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.BlockQuote

Related Pages:

https://v4-alpha.getbootstrap.com/content/typography/ https://www.w3schools.com/TAGS/tag_blockquote.asp

Parameters

- **text** – Optional. The string value to be displayed in the component
- **author** – Optional. The quote's author
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. The value to be displayed to the helper icon
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

button(*text: str*, *icon: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *tooltip: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

Templates:

Parameters

- **text** – Optional. The value to be displayed to the button
- **icon** – Optional. The component icon content from font-awesome references
- **tooltip** – Optional. A string with the value of the tooltip
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

code(*text: str = ''*, *language: str = 'python'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (200, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Python Wrapper to the Bootstrap CODE Tag. This entry point compare to the ui.codes will be by default readonly.

Tags
Categories

Usage:

```
page.ui.texts.code("This is a code")
```

Underlying HTML Objects:

- epyk.core.html.HtmlTextEditor.Code

Related Pages:

https://v4-alpha.getbootstrap.com/content/code/

Parameters

- **text** – Optional. The string value to be displayed in the component
- **language** – Optional. The language used in the code cell
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **color** – Optional. The font color in the component. Default inherit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. The value to be displayed to the helper icon
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

col(*text: str*, *label: str*, *align: str = 'left'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param text: Optional. The value to be displayed to the component
:param label: Optional. The text of label to be added to the component
:param align: Optional. The text-align property within this component
:param width: Optional. A tuple with the integer for the component width and
↪its unit
:param height: Optional. A tuple with the integer for the component height and
↪its unit
:param html_code: Optional. An identifier for this component (on both Python
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

date(*value=None*, *label: Optional[str] = None*, *icon: str = False*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

This component is based on the Jquery Date Picker object.

Tags
Categories

Usage:

```
page.ui.texts.date('2020-04-08', label="Date").included_dates(["2020-04-08",
↪"2019-09-06"])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlDates.DatePicker`

Related Pages:

https://jqueryui.com/datepicker/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/dates.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/fields.py

Parameters

- **value** – Optional. The value to be displayed to the time component. Default now
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. The component icon content from font-awesome references
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. A tooltip helper

fieldset(*legend: str = ''*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

The <fieldset> tag is used to group related elements in a form. The <fieldset> tag draws a box around the related elements.

Tags
Categories

Usage:

```
page.ui.texts.fieldset("legend")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Fieldset`

Related Pages:

https://www.w3schools.com/tags/tag_legend.asp https://www.w3schools.com/tags/tag_fieldset.asp

Parameters

- **legend** – Optional. The legend value
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **helper** – Optional. The value to be displayed to the helper icon
- **profile** – Optional. A flag to set the component performance storage

formula(*text: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *color: Optional[str] = None*, *helper: Optional[str] = None*, *align: str = 'left'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Formula

Interface to the mathjax Formulas object.

Tags
Categories

Usage:

```
page.ui.texts.formula("$$x = {-b \pm \sqrt{b^2-4ac} \over 2a}.$$", helper="This␣
↪is a formula")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextComp.Formula`

Related Pages:

https://mathjax.org/docs/index.html

Parameters

- **text** – Optional. The string value to be displayed in the component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **color** – Optional. The font color in the component. Default inherit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. The value to be displayed to the helper icon
- **align** – Optional. The text-align property within this component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

highlights(*text: Optional[str] = None*, *title: Optional[str] = None*, *icon: Optional[str] = None*, *type: str = 'danger'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Highlights

Provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

Tags
Categories

Usage:

```
page.ui.texts.highlights("Test content", title="Test", icon="fab fa-angellist")
page.ui.texts.highlights("Server configuration at: %s" % SERVER_PATH, icon="fas␣
↪fa-exclamation-triangle")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Highlights`

Related Pages:

https://getbootstrap.com/docs/4.3/components/alerts/

Parameters

- **text** – Optional. The string value to be displayed in the component
- **title** – Optional.
- **icon** – Optional. The component icon content from font-awesome references
- **type** – Optional. The type of the warning. Can be (primary, secondary, success, danger, warning, info, light, dark). Default danger
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

label(*text: str = ''*, *color: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = (140, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *tooltip: str = ''*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*) → Label

The <label> tag defines a label for a <button>, <input>, <meter>, <output>, <progress>, <select>, or <textarea> element...

The for attribute of the <label> tag should be equal to the id attribute of the related element to bind them together.

Tags
Categories

Usage:

```
page.ui.texts.label("Test")
page.ui.texts.label("this is a test", color="red")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Label

Related Pages:

https://www.w3schools.com/tags/tag_label.asp

Parameters

- **text** – Optional. The string value to be displayed in the component
- **color** – Optional. The color of the text
- **align** – Optional. The position of the icon in the line (left, right, center)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

note(*text: Optional[str] = None*, *title: str = ''*, *icon: Optional[str] = None*, *category: str = 'success'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Highlights

Provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

Tags
Categories

Usage:

```
page.ui.texts.highlights("Test content", title="Test", icon="fab fa-angellist")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Highlights

Related Pages:

https://getbootstrap.com/docs/4.3/components/alerts/

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/modal.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/popup_info.py

Parameters

- **text** – Optional. The string value to be displayed in the component

- **title** –
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **category** – Optional. The type of the warning. Can be (primary, secondary, success, danger, warning, info, light, dark). Default danger
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. The value to be displayed to the helper icon
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

number(*number: int = 0*, *title: Optional[str] = None*, *label: Optional[str] = None*, *icon: Optional[str] = None*, *color: Optional[str] = None*, *align: str = 'left'*, *tooltip: str = ''*, *html_code=None*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (150, 'px')*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.texts.number(289839898, label="test", helper="Ok", icon="fas fa-align-
↪center")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Numeric`

Related Pages:

http://openexchangerates.github.io/accounting.js/

Parameters

- **number** – Optional. The value to be displayed to the component. Default 0
- **title** – Optional. The text title
- **label** – Optional. The text of label to be added to the component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **color** – Optional. The font color in the component. Default inherit
- **align** – Optional. The text-align property within this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **tooltip** – Optional. A string with the value of the tooltip
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component

- **helper** – Optional. The value to be displayed to the helper icon
- **profile** – Optional. A flag to set the component performance storage

paragraph(*text: str = ''*, *color: Optional[str] = None*, *background_color: Optional[str] = None*, *border: bool = False*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *encoding: str = 'UTF-8'*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Paragraph

Python Wrapper to the HTML P Tag.

Tags
Categories

Usage:

```
page.ui.texts.paragraph("This is a paragraph", helper="Paragraph helper")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Paragraph`

Related Pages:

https://www.w3schools.com/html/html_styles.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/paragraph.py

Parameters

- **text** – Optional. The string value to be displayed in the component
- **color** – Optional. The font color in the component. Default inherit
- **background_color** –
- **border** –
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **encoding** – Optional.
- **helper** – Optional. The value to be displayed to the helper icon
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

preformat(*text: Optional[str] = None*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (90, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Pre

Preformatted text: The <pre> tag defines preformatted text. Text in a <pre> element is displayed in a fixed-width font (usually Courier), and it preserves both spaces and line breaks.

Tags
Categories

Usage:

```
page.ui.texts.preformat("This is a pre formatted text")
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Pre

Related Pages:

https://www.w3schools.com/html/html_styles.asp https://www.w3schools.com/tags/tag_pre.asp

Parameters

- **text** – Optional. The string value to be displayed in the component
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. The value to be displayed to the helper icon
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

property references: *TextReferences*

More custom toggles icons.

span(*text: str = ''*, *color: Optional[str] = None*, *align: str = 'center'*, *width: Optional[Union[tuple, int, str]] = None*, *height: Optional[Union[tuple, int, str]] = None*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*) → Span

The tag is used to group inline-elements in a document.

The tag provides no visual change by itself.

The tag provides a way to add a hook to a part of a text or a part of a document.

Tags
Categories

Usage:

```
page.ui.texts.span("Test")

span = page.ui.texts.span("youpi")
span.mouse([
  span.dom.css("color", "red"),
  span.dom.css("cursor", "pointer").r],
  span.dom.css("color", "blue").r)
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Span

Related Pages:

https://www.w3schools.com/tags/tag_span.asp

Parameters

- **text** – Optional. The string value to be displayed in the component
- **color** – Optional. The color of the text
- **align** – Optional. The position of the icon in the line (left, right, center)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **tooltip** – Optional. A string with the value of the tooltip
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

text(*text: str = ''*, *color: Optional[str] = None*, *align: str = 'left'*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *tooltip: Optional[str] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*) → Text

Add the HTML text component to the page.

Usage:

```
page.ui.text("this is a test")

txt = page.ui.text('''
  This text is ___really important___.
  This text is __*really important*__.
  This text is **_really important_**.
  This is really***very***important text.
''')
txt.options.markdown = True
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Text`

Related Pages:

https://www.w3schools.com/tags/tag_font.asp

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/banners.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/contextmenu.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/image.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/markdown.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/postit.py

Parameters

- **text** – The string value to be displayed in the component.
- **color** – Optional. The color of the text.

- **align** – Optional. The position of the icon in the line (left, right, center).
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **tooltip** – Optional. A string with the value of the tooltip.
- **options** – Optional. The component options.
- **helper** – Optional. A tooltip helper.
- **profile** – A flag to set the component performance storage.

title(*text: Union[str, dict] = ''*, *level=None*, *name: Optional[str] = None*, *contents=None*, *color=None*, *picture: Optional[str] = None*, *icon: Optional[str] = None*, *top: int = 5*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Add a title.

Tags
Categories

Usage:

```
page.ui.title("Test")
page.ui.title("Test", level=2)
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.Title

Related Pages:

https://www.w3schools.com/tags/tag_hn.asp

Parameters

- **text** – Optional. The value to be displayed to the component.
- **level** –
- **name** –
- **contents** –
- **color** – Optional. The font color in the component. Default inherit.
- **picture** –
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **top** – Optional. The margin top in pixel
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **align** – Optional. The text-align property within this component

- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

up_down(*record=None*, *components=None*, *color=None*, *label: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Up and down Text component.

Tags
Categories

Usage:

```
page.ui.texts.up_down({'previous': 240885, 'value': 240985})
```

Underlying HTML Objects:

- epyk.core.html.HtmlText.UpDown

Related Pages:

https://fontawesome.com/

Parameters

- **record** – Optional. The component inputs
- **components** – List of HTML component to be added
- **color** – Optional. The font color in the component. Default inherit
- **label** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **helper** – Optional. The value to be displayed to the helper icon
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Titles Interface

class epyk.interfaces.components.CompTitles.**Titles**(*ui*)

bold(*text: str = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

tags
categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

- **param text**
  Optional. The value to be displayed to the component

  param options
  Optional. Specific Python options available for this component

  param tooltip
  Optional. A string with the value of the tooltip

  param align
  Optional. The text-align property within this component

  param color
  Optional. The font color in the component. Default inherit

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param html_code
  Optional. An identifier for this component (on both Python and Javascript side)

  param profile
  Optional. A flag to set the component performance storage

`caption`(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

tags
categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

- **param text**
  Optional. The value to be displayed to the component

  param options
  Optional. Specific Python options available for this component

  param tooltip
  Optional. A string with the value of the tooltip

  param align
  Optional. The text-align property within this component

  param color
  Optional. The font color in the component. Default inherit

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

param html_code
Optional. An identifier for this component (on both Python and Javascript side)

param profile
Optional. A flag to set the component performance storage

`category`(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

tags
categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

- **param text**
  Optional. The value to be displayed to the component

param options
Optional. Specific Python options available for this component

param tooltip
Optional. A string with the value of the tooltip

param align
Optional. The text-align property within this component

param color
Optional. The font color in the component. Default inherit

param width
Optional. A tuple with the integer for the component width and its unit

param height
Optional. A tuple with the integer for the component height and its unit

param html_code
Optional. An identifier for this component (on both Python and Javascript side)

param profile
Optional. A flag to set the component performance storage

`head`(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

Tags
Categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

Parameters

- **text** – Optional. The value to be displayed to the component
- **options** – Optional. Specific Python options available for this component
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

headline(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: bool = True*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

Tags
Categories

Usage:

```
page.ui.titles.headline("Daily")
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/calendar.py https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

Parameters

- **text** – Optional. The value to be displayed to the component
- **options** – Optional. Specific Python options available for this component
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

rubric(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

Tags
Categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

Parameters

- **text** – Optional. The value to be displayed to the component
- **options** – Optional. Specific Python options available for this component
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

section(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

Tags
Categories

Usage:

```
t0 = page.ui.titles.section("Available Items")
```

Parameters

- **text** – Optional. The value to be displayed to the component
- **options** – Optional. Specific Python options available for this component
- **tooltip** – Optional. A string with the value of the tooltip
- **align** – Optional. The text-align property within this component
- **color** – Optional. The font color in the component. Default inherit
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

subtitle(*text: str = ''*, *name: Optional[str] = None*, *contents=None*, *color: Optional[str] = None*, *picture: Optional[str] = None*, *icon: Optional[str] = None*, *top: int = 5*, *html_code: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = ('auto', '')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *align: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

tags
categories

Usage:

- **param text**
  Optional. The value to be displayed to the component

  param name
  param contents
  param color
  Optional. The font color in the component. Default inherit

  param picture
  param icon
  param top
  param html_code
  Optional. An identifier for this component (on both Python and Javascript side)

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param align
  Optional. The text-align property within this component

  param options
  Optional. Specific Python options available for this component

  param profile
  Optional. A flag to set the component performance storage

`title`(*text: Optional[Union[str, dict]] = None*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

Tags
Categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py https://github.com/epykure/epyk-templates/blob/master/locals/components/paragraph.py

Parameters

- **`text`** – Optional. The value to be displayed to the component
- **`options`** – Optional. Specific Python options available for this component
- **`tooltip`** – Optional. A string with the value of the tooltip
- **`align`** – Optional. he text-align property within this component
- **`color`** – Optional. The font color in the component. Default inherit

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

underline(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

tags
categories

Usage:

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py

- **param text**
  Optional. The value to be displayed to the component

  param options
  Optional. Specific Python options available for this component

  param tooltip
  Optional. A string with the value of the tooltip

  param color
  Optional. The font color in the component. Default inherit

  param align
  Optional. The text-align property within this component

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param html_code
  Optional. An identifier for this component (on both Python and Javascript side)

  param profile
  Optional. A flag to set the component performance storage

upper(*text: Union[str, dict] = ''*, *options: Optional[dict] = None*, *tooltip: str = ''*, *align: str = 'left'*, *color: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = False*)

tags
categories

Usage:

```
page.ui.titles.upper("Test")
page.ui.titles.upper("Test", color=True)
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/list.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/paragraph.py

- **param text**
  Optional. The value to be displayed to the component

  param options
  Optional. Specific Python options available for this component

  param tooltip
  Optional. A string with the value of the tooltip

  param align
  Optional. The text-align property within this component

  param color
  Optional. The font color in the component. Default inherit

  param width
  Optional. A tuple with the integer for the component width and its unit

  param height
  Optional. A tuple with the integer for the component height and its unit

  param html_code
  Optional. An identifier for this component (on both Python and Javascript side)

  param profile
  Optional. A flag to set the component performance storage

Trees Interface

`class epyk.interfaces.components.CompTrees.Trees(ui)`

`dropdown(record: Optional[List[dict]] = None, text: str = '', width: Optional[Union[tuple, int, str]] = (100, '%'), height: Optional[Union[tuple, int, str]] = (None, 'px'), html_code: Optional[str] = None, helper: Optional[str] = None, options: Optional[Union[bool, dict]] = None, profile: Optional[Union[bool, dict]] = None) → DropDown`

Usage:

Underlying HTML Objects:

- `epyk.core.html.HtmlTrees.DropDown`

Related Pages:

http://getbootstrap.com/docs/4.0/components/dropdowns/ https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_js_dropdown_multilevel_css&stacked=h https://codepen.io/svnt/pen/beEgre

https://codepen.io/raneio/pen/NbbZEM https://www.w3schools.com/howto/tryit.asp?filename=tryhow_css_js_dropdown_hover https://codepen.io/antoniputra/pen/BzyWmb

Parameters

- **record** – Optional. The records
- **text** – Optional. Dropdown label

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

folder(*folder: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Tree

Add a tree component from a folder structure.

Parameters

- **folder** – The path to be displayed
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

inputs(*data: Optional[List[dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → TreeInput

Usage:

Underlying HTML Objects:

- `epyk.core.html.HtmlTrees.TreeInput`

Parameters

- **data** – Optional. The records
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

tree(*data: Optional[List[dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Tree

Addd a tree / hierarchy component to the page.

Usage:

```
data = [{"value": 'test', 'items': [{"value": 'child 1', 'color': 'red'}]}]
page.ui.lists.tree(data)

data = [{"value": 'test', 'icon': "fas fa-check", "css": {'color': 'green'},
↪'items': [{
  "value": 'child 1', "css": {'color': 'red'}, 'icon': "fas fa-times"}]},
       {"value": 'test 2', 'icon': "fas fa-exclamation-triangle", "css": {
↪'color': 'orange'}, 'items': [{
         "value": 'child 1', "css": {'color': 'red'}, 'icon': "fas fa-times"}],
        }]

hyr = page.ui.tree(data)
hyr.options.icon_close = "fas fa-caret-right"
hyr.options.icon_open = "fas fa-caret-down"
hyr.options.with_badge = True
hyr.options.with_icon = "icon"
hyr.click_node([page.js.alert(pk.events.value)])
hyr.click([page.js.alert(pk.events.value)])
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTrees.Tree`

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/tree.py

Parameters

- **data** – Optional. The records
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. A tooltip helper
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Vignets Interface

class epyk.interfaces.components.CompVignets.**Vignets**(*ui*)

background(*url: str, width: Union[tuple, int] = (90, '%'), height: Union[tuple, int] = (450, 'px'), size: str = 'contain', margin: int = 0, align: str = 'center', position: str = 'middle', options: Optional[dict] = None, profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param url: String. The url string.
:param align: String. Optional. The text-align property within this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param size: String. Optional.
:param margin: Integer. Optional.
:param position: String. Optional.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

block(*records=None, color: Optional[str] = None, border: str = 'auto', width: Union[tuple, int] = (300, 'px'), height: Union[tuple, int] = (None, 'px'), helper: Optional[str] = None, options: Optional[dict] = None, profile: Optional[Union[bool, dict]] = None*)

Every HTML element has a default display value depending on what type of element it is. The two display values are: block and inline.

Tags
Categories

Usage:

```
page.ui.vignets.block({"text": 'This is a brand new python framework', "title":
↪'New Python Web Framework',
                       "button": {"text": 'Get Started', 'url': "/getStarted"},
↪'color': 'green'})
```

Underlying HTML Objects:

- epyk.core.html.HtmlTextComp.BlockText

Related Pages:

https://www.w3schools.com/htmL/html_blocks.asp

Parameters

- **records** – List. Optional. The list of dictionaries with the input data.
- **color** – String. Optional. The font color in the component. Default inherit.
- **border** –

- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **helper** – String. Optional. The value to be displayed to the helper icon.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

bubble(*records=None*, *width: Union[tuple, int] = (70, 'px')*, *height: Union[tuple, int] = ('auto', '')*, *color: Optional[str] = None*, *background_color: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

The bubbles event property returns a Boolean value that indicates whether or not an event is a bubbling event. Event bubbling directs an event to its intended target, it works like this: A button is clicked and the event is directed to the button If an event handler is set for that object, the event is triggered. If no event handler is set for that object, the event bubbles up (like a bubble in water) to the objects parent. The event bubbles up from parent to parent until it is handled, or until it reaches the document object.

Tags
Categories

Usage:

```
page.ui.vignets.bubble({"value": 23, "title": "Title"}, helper="This is a helper
↪")
```

Underlying HTML Objects:

- `epyk.core.html.HtmlText.Text`
- `epyk.core.html.HtmlContainer.Div`
- `epyk.core.html.HtmlLinks.ExternalLink`

Related Pages:

https://www.w3schools.com/jsref/event_bubbles.asp

Parameters

- **records** – List. Optional. The list of dictionaries.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **color** – String. Optional. The font color in the component. Default inherit.
- **background_color** – String. Optional. The hexadecimal color code.
- **helper** – String. Optional. The value to be displayed to the helper icon.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

image(*title: Optional[str] = None*, *content: str = ''*, *image: Optional[str] = None*, *render: str = 'row'*, *align: str = 'center'*, *width: Union[tuple, int] = (90, '%')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param title: String. Optional. A panel title. This will be attached to the␣
↪title property.
:param content:
:param image:
:param render:
:param align: String. Optional. The text-align property within this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

number(*number: float*, *label: str = ''*, *title: Optional[str] = None*, *align: str = 'center'*, *components=None*, *width: Union[tuple, int] = ('auto', '')*, *height: Union[tuple, int] = (None, 'px')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *helper: Optional[str] = None*)

The <input type="number"> defines a field for entering a number. Use the following attributes to specify restrictions: max - specifies the maximum value allowed min - specifies the minimum value allowed step - specifies the legal number intervals value - Specifies the default value

Tags
Categories

Usage:

```
number = page.ui.vignets.number(500, "Test")
number_2 = page.ui.vignets.number(500, "Test 2 ", options={"url": "http://www.
↪google.fr"})
number.span.add_icon(page.ui.icons.get.ICON_ENVELOPE)
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextComp.Number`

Related Pages:

https://www.w3schools.com/tags/att_input_type_number.asp

Parameters

- **number** – Integer. The value.
- **label** – String. Optional. The label text.
- **title** – String | Component. Optional. A panel title. This will be attached to the title property.
- **align** – String. Optional. The text-align property within this component.
- **components** – List. Optional. The HTML components.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **helper** – String. Optional. The value to be displayed to the helper icon.

price(*value*, *title: str*, *items: Optional[List[Html]] = None*, *components: Optional[List[Html]] = None*, *url: Optional[str] = None*, *align: str = 'center'*, *width: Union[tuple, int] = (250, 'px')*, *height: Union[tuple, int] = ('auto', '')*, *currency: str = '£'*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*, *helper: Optional[str] = None*)

Tags
Categories

Usage:

```
page.ui.vignets.price(10, "This is the price", [])
```

Parameters

- **value** –
- **title** – String. Optional. A panel title. This will be attached to the title property.
- **items** –
- **components** –
- **url** –
- **align** – String. Optional. The text-align property within this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **currency** – String. Optional. The currency value.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **helper** – String. Optional. The value to be displayed to the helper icon.

slides(*start: int = 0*, *width: Union[tuple, int] = (100, '%')*, *height: Union[tuple, int] = (100, '%')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param start:
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
```

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```
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

TODO: Fix layout issue with F11 (full screen)

text(*records=None*, *width: Union[tuple, int] = (None, '%')*, *height: Union[tuple, int] = (None, 'px')*, *align: str = 'center'*, *helper: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.vignets.text({"title": "New Python Framework", 'value': "A new Python␣
↪Web Framework", 'color': 'green',
                      'icon': 'fab fa-python', 'colorTitle': 'darkgreen'})
```

Underlying HTML Objects:

- `epyk.core.html.HtmlTextComp.TextWithBorder`

Parameters

- **records** – List. Optional. The list of dictionaries with the input data.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **align** – String. Optional. The text-align property within this component.
- **helper** – String. Optional. The value to be displayed to the helper icon.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

video(*title: str*, *content: str = ''*, *video: Optional[str] = None*, *render: str = 'row'*, *align: str = 'center'*, *width: Union[tuple, int] = (90, '%')*, *height: Union[tuple, int] = (None, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Component to allow creation of a vignet embedding a video.

Tags
Categories

Usage:

Related Pages:

Issue:

https://github.com/epykure/epyk-ui/issues/92

param title
String. Optional. A panel title. This will be attached to the title property.

param content
param video
param render
param align
String. The text-align property within this component.

param width
Tuple. Optional. A tuple with the integer for the component width and its unit.

param height
Tuple. Optional. A tuple with the integer for the component height and its unit.

param options
Dictionary. Optional. Specific Python options available for this component.

param profile
Boolean | Dictionary. Optional. A flag to set the component performance storage.

vignet(*title: str*, *content: str*, *icon: Optional[str] = None*, *render: str = 'col'*, *align: str = 'center'*, *width: Union[tuple, int] = (200, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param title: String. Optional. A panel title. This will be attached to the␣
↪title property.
:param content: String. Optional. The value to be displayed to the component.
:param icon: String. Optional. A string with the value of the icon to display␣
↪from font-awesome.
:param render:
:param align: String. Optional. The text-align property within this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
```

geo Interface

Geo Interface

class epyk.interfaces.geo.CompGeo.**Geo**(*ui*)

property chartJs: *ChartJs*

Property to the ChartJs Geo API.

Usage:

Related Pages:

https://github.com/sgratzl/chartjs-chart-geo

property d3: *D3*

Interactive maps for data visualizations. Bundled into a single Javascript file.

Related Pages:

https://github.com/markmarkoh/datamaps

property google: *GeoGoogle*

Property to the Google charts API.

Usage:

Related Pages:

https://developers.google.com/chart

property jqv: *JqueryVertorMap*

Property to the Jquery vector Map API.

Usage:

Related Pages:

https://www.10bestdesign.com/jqvmap/

property leaflet: *GeoLeaflet*

Property to the Jquery vector Map API.

Usage:

Related Pages:

https://www.10bestdesign.com/jqvmap/

property mapbox: MapboxMaps

A JavaScript library that uses WebGL to render interactive maps from vector tiles and Mapbox styles.

Usage:

```
page.imports.pkgs.mapbox.set_access_token(
  "XXXXXX",
  "mapboxgl.accessToken"
)

l = page.ui.geo.mapbox.globe() # page.ui.geo.leaflet.europe()
l.load([
```

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```
  l.js.addControl([l.js._.FullscreenControl()]),
  l.js.addControl([l.js._.GeolocateControl()]),
  l.js.addControl([l.js._.NavigationControl()]),
  l.js.addControl([l.js._.ScaleControl()]),
  l.js.addSource('portland', {'type': 'raster', 'url': 'mapbox://examples.
↪32xkp0wd'}),
  l.js.addLayer({'id': 'portland', 'source': 'portland', 'type': 'raster'}),
  l.js.addSource('route', {'type': 'geojson', 'data': {'type': 'Feature',
↪'properties': {}, 'geometry': {
    'type': 'LineString', 'coordinates': [
      [-122.483696, 37.833818], [-122.483482, 37.833174], [-122.483396, 37.
↪8327], [-122.483568, 37.832056]
      [-122.48404, 37.831141], [-122.48404, 37.830497], [-122.483482, 37.82992],
↪ [-122.483568, 37.829548],
      [-122.48507, 37.829446], [-122.4861, 37.828802], [-122.486958, 37.82931],␣
↪[-122.487001, 37.830802],
      [-122.487516, 37.831683], [-122.488031, 37.832158], [-122.488889, 37.
↪832971], [-122.489876, 37.832632],
      [-122.490434, 37.832937], [-122.49125, 37.832429], [-122.491636, 37.
↪832564], [-122.492237, 37.833378],
      [-122.493782, 37.833683]]}}}),
  l.js.addLayer({'id': 'route', 'type': 'line', 'source': 'route', 'layout': {
    'line-join': 'round', 'line-cap': 'round'}, 'paint': {'line-color': '#888',
↪'line-width': 8}})
])
l.options.style = 'mapbox://styles/mapbox/streets-v11'
```

Related Pages:

https://docs.mapbox.com/

property plotly: *Plotly*

Usage:

```
Related Pages:

  https://plotly.com/javascript/choropleth-maps/
```

property plotly_map: *Plotly*

Interface for the Plotly library.

Usage:

Related Pages:

https://plotly.com/javascript/choropleth-maps/

BubbleMaps Interface

class epyk.interfaces.geo.CompGeoChartJs.**BubbleMaps**(*ui*)

us(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Underlying HTML Objects:

- epyk.core.geo.GeoChartJs.Choropleth

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

world(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Underlying HTML Objects:

- epyk.core.geo.GeoChartJs.Choropleth

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

ChartJs Interface

class epyk.interfaces.geo.CompGeoChartJs.**ChartJs**(*ui*)

Choropleth Interface

class epyk.interfaces.geo.CompGeoChartJs.**Choropleth**(*ui*)

country(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Usage:

```
records = [{"name": "Liverpool", "value": 23}, {"name": "Leeds", "value": 60}]
uk = page.ui.geo.chartJs.choropleths.uk(records, y_columns=["value"], x_axis=
↪"name")
page.ui.button("Click").click([
  uk.build({"Birmingham": 40}),
])
```

Underlying HTML Objects:

- epyk.core.geo.GeoChartJs.Choropleth

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

uk(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Usage:

```
records = [{"name": "Liverpool", "value": 23}, {"name": "Leeds", "value": 60}]
uk = page.ui.geo.chartJs.choropleths.uk(records, y_columns=["value"], x_axis=
↪"name")
page.ui.button("Click").click([
  uk.build({"Birmingham": 40}),
])
```

Parameters

- **record** –

- **y_columns** –
- **x_axis** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

Returns

us(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Usage:

```
records = [{"name": "Nevada", "value": 23}, {"name": "Texas", "value": 60}]
us = page.ui.geo.chartJs.choropleths.us(records, y_columns=["value"], x_axis=
↪"name")
page.ui.button("Click").click([us.build({"Louisiana": 40})])
```

Underlying HTML Objects:

- epyk.core.geo.GeoChartJs.Choropleth

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

world(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Usage:

```
records = [{"name": "Italy", "value": 23}]
wl = page.ui.geo.chartJs.choropleths.world(records, y_columns=["value"], x_axis=
↪"name")
page.ui.button("Click").click([
  wl.build({"Germany": 23, "Spain": 40, "Italy": 23}),
  us.build({"Louisiana": 40}),
  uk.build({"Birmingham": 40}),
])
```

Underlying HTML Objects:

- epyk.core.geo.GeoChartJs.Choropleth

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

D3 Interface

class epyk.interfaces.geo.CompGeoD3.**D3**(*ui*)

Dc Interface

class epyk.interfaces.geo.CompGeoDc.**Dc**(*ui*)

usa(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *title: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Underlying HTML Objects:

- epyk.core.geo.GeoDc.ChartGeoChoroplethk

Related Pages:

https://jsfiddle.net/djmartin_umich/9VJHe/ http://bl.ocks.org/KatiRG/cccd23dd7a830da0de5c

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **title** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

GeoGoogle Interface

class epyk.interfaces.geo.CompGeoGoogle.**GeoGoogle**(*ui*)

current(*profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Parameters

- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

maps(*latitude: float*, *longitude: float*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Parameters

- **latitude** –
- **longitude** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

satellite(*latitude: float*, *longitude: float*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Parameters

- **latitude** –
- **longitude** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

terrain(*latitude: float*, *longitude: float*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Parameters

- **latitude** –

- **longitude** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

JqueryVertorMap Interface

class epyk.interfaces.geo.CompGeoJqV.**JqueryVertorMap**(*ui*)

add_map(*name: str*, *continent: bool = False*)

Add the Javascript external package defining the map to the page.

Related Pages:

```
https://www.10bestdesign.com/jqvmap/
```

Parameters

- **name** – String. The map alias.
- **continent** – Boolean. Optional.

africa(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

asia(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

australia(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

europe(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
```

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```
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

france(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
fr = page.ui.geo.jqv.france()
fr.options.multiSelectRegion = True
fr.click([
  page.js.console.log(libs.jqvmap.region),
  page.js.console.log(libs.jqvmap.code),
  page.js.console.log(libs.jqvmap.element),
  page.js.console.log("data", skip_data_convert=True),
])
```

Parameters

- **record** – List. Optional. The records
- **y_column** – String. Optional. The column in the record for the keys.
- **x_axis** – String. Optional. The column in the record for the values.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

germany(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
```

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```
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

map(*name: str*, *record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param name: String. The map alias.
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

north_america(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
```

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```
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

south_america(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

usa(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

world(*record=None*, *y_column: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*)

Related Pages:

https://www.10bestdesign.com/jqvmap/

Usage:

```
:param record: List. Optional. The records
:param y_column: String. Optional. The column in the record for the keys.
:param x_axis: String. Optional. The column in the record for the values.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

GeoLeaflet Interface

class epyk.interfaces.geo.CompGeoLeaflet.**GeoLeaflet**(*ui*)

Plotly Interface

class epyk.interfaces.geo.CompGeoPlotly.**Plotly**(*ui*)

property bubbles

Plotly Bubble charts

Related Pages:

https://plotly.com/javascript/bubble-maps/

chorolet(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *title: Optional[str] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (330, 'px')*, *html_code: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*)

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.Chorolet

Related Pages:

https://plotly.com/javascript/mapbox-county-choropleth/

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **title** –

- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

property choropleths

Plotly Choropleth charts

Related Pages:

https://plotly.com/javascript/mapbox-county-choropleth/

density(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.Scatter

Related Pages:

https://plot.ly/javascript/mapbox-density-heatmaps/

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

scattermapbox(*record*, *lon_columns: Optional[list] = None*, *lat_columns: Optional[list] = None*, *text_columns: Optional[list] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Union[int, tuple] = (100, '%')*, *height: Union[int, tuple] = (430, 'px')*, *html_code: Optional[str] = None*)

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.Scatter

Related Pages:

https://plot.ly/javascript/mapbox-layers/

Parameters

- **record** –
- **lon_columns** –
- **lat_columns** –

- **text_columns** –
- **profile** –
- **options** –
- **width** –
- **height** –
- **html_code** –

PlotlyBubble Interface

class epyk.interfaces.geo.CompGeoPlotly.**PlotlyBubble**(*ui*)

africa(*record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A bubble chart for Africa

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.BubbleGeo

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)
- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

asia(*record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A bubble chart for Asia

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.BubbleGeo

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)
- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

bubble(*scope*, *record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

How to make a D3.js-based bubble map in JavaScript. A bubble map overlays a bubble chart on a map.

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.BubbleGeo`

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **scope** – String. The scope of the chart
- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)
- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

europe(*record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A bubble chart for Europe

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.BubbleGeo`

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)
- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

north_america(*record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A bubble chart for North America

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.BubbleGeo`

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)
- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

south_america(*record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A bubble chart for South America

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.BubbleGeo`

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)
- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

usa(*record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A bubble chart for the USA.

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.BubbleGeo`

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)

- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

world(*record=None*, *size_col=None*, *country_col=None*, *long_col=None*, *lat_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A world bubble chart

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.BubbleGeo

Related Pages:

https://plotly.com/javascript/bubble-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **long_col** – String. The column in the recordset used to retrieve the longitude (optional if country codes)
- **lat_col** – String. The column in the recordset used to retrieve the latitude (optional if country codes)
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

PlotlyChoropleth Interface

class epyk.interfaces.geo.CompGeoPlotly.**PlotlyChoropleth**(*ui*)

africa(*record*, *size_col=None*, *country_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A Choropleth Chart for african countries

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.Choropleth

Related Pages:

https://plotly.com/javascript/choropleth-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

asia(*record*, *size_col=None*, *country_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A Choropleth Chart for asian countries

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.Choropleth`

Related Pages:

https://plotly.com/javascript/choropleth-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

europe(*record=None*, *size_col=None*, *country_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A Choropleth Chart for European countries

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.Choropleth`

Related Pages:

https://plotly.com/javascript/choropleth-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **profile** – A flag to set the component performance storage

- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

north_america(*record*, *size_col=None*, *country_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A Choropleth Chart for north american countries

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.Choropleth

Related Pages:

https://plotly.com/javascript/choropleth-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

south_america(*record*, *size_col=None*, *country_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A Choropleth Chart for south american countries

Underlying HTML Objects:

- epyk.core.geo.GeoPlotly.Choropleth

Related Pages:

https://plotly.com/javascript/choropleth-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

usa(*record*, *y_column=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.Choropleth`

Related Pages:

https://plotly.com/javascript/choropleth-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

world(*record*, *size_col=None*, *country_col=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(430, 'px')*, *html_code=None*)

A world Choropleth Chart

Underlying HTML Objects:

- `epyk.core.geo.GeoPlotly.Choropleth`

Related Pages:

https://plotly.com/javascript/choropleth-maps/

Parameters

- **record** – Data. The recordset
- **size_col** – String. The column in the recordset used for the values
- **country_col** – String. The column in the recordset used to retrieve country code
- **profile** – A flag to set the component performance storage
- **options** – Dictionary. The charts options
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** –

graphs Interface

Chart2d Interface

class epyk.interfaces.graphs.CompCharts.**Chart2d**(*ui*)

property apex: *ApexChart*

Interface for the ApexChart library.

Category
Web application

Usage:

Related Pages:

https://apexcharts.com/

Returns
A Python ChartJs object

property billboard: *Billboard*

Interface to the Javascript Billboard module.

This will propose various charts for data analysis and visualisation based on D£. This project has been forked from Billboard.js.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://naver.github.io/billboard.js/

Returns
A Python Billboard Object

property c3: *C3*

Interface to the JavaScript C3 module.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://c3js.org/

Returns
A Python C3 object

property canvas: *Canvas*

The HTML <canvas> element is used to draw graphics on a web page.

The graphic to the left is created with <canvas>. It shows four elements: a red rectangle, a gradient rectangle, a multicolor rectangle, and a multicolor text.

Usage:

Related Pages:

https://www.w3schools.com/html/html5_canvas.asp

property chartJs: *ChartJs*

Interface for the ChartJs library

Category
Web application

Usage:

Related Pages:

https://www.chartjs.org/

Returns
A Python ChartJs object

property d3: *D3*

D3.js is a JavaScript library for manipulating documents based on data.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://d3js.org/

property dc: *DC*

dc.js is a javascript charting library with native crossfilter support, allowing highly efficient exploration on large multi-dimensional datasets (inspired by crossfilter's demo).

Category
Analytics, Dataviz

Usage:

Related Pages:

https://dc-js.github.io/dc.js/

property nvd3: *Nvd3*

This project is an attempt to build re-usable charts and chart components for d3.js without taking away the power that d3.js gives you.

Category
Analytics, Web application

Usage:

Related Pages:

http://nvd3.org/

Returns
A Python NVD3 object

property plotly: *Plotly2D*

Built on top of d3.js and stack.gl, Plotly.js is a high-level, declarative charting library. plotly.js ships with over 40 chart types, including 3D charts, statistical graphs, and SVG maps.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://plotly.com/javascript/

Returns
A Python Plotly object

property svg: *SVG*

SVG stands for Scalable Vector Graphics.

SVG defines vector-based graphics in XML format.

Usage:

Related Pages:

https://www.w3schools.com/graphics/svg_intro.asp

property vis: *Vis2D*

Interface for the Vis library.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://visjs.org/

Returns
A Python Vis object

Chart3d Interface

class epyk.interfaces.graphs.CompCharts.**Chart3d**(*ui*)

property plotly: *Plotly3D*

Built on top of d3.js and stack.gl, Plotly.js is a high-level, declarative charting library. plotly.js ships with over 40 chart types, including 3D charts, statistical graphs, and SVG maps.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://plotly.com/javascript/

Returns
A Python Plolty object

property vis: *Vis3D*

Interface for the Vis library.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://visjs.org/

Returns
A Python Vis object

Graphs Interface

class epyk.interfaces.graphs.CompCharts.**Graphs**(*ui*)

property apex: *ApexChart*

Interface for the ApexChart library.

Category
Web application

Usage:

Related Pages:

https://apexcharts.com/

property bb: *Billboard*

Interface to the Javascript Billboard module.

This will propose various charts for data analysis and visualisation based on D£. This project has been forked from C3.js.

Category
Analytics, Dataviz

Usage:

```
languages = [
  {"name": 'C', 'type': 'code', 'rating': 17.07, 'change': 12.82},
  {"name": 'Java', 'type': 'code', 'rating': 16.28, 'change': 0.28},
]

c = page.ui.charts.bb.line(languages, y_columns=["rating", 'change'], x_axis=
↪'name')
```

Related Pages:

https://naver.github.io/billboard.js/

property billboard: *Billboard*

Interface to the Javascript Billboard module.

This will propose various charts for data analysis and visualisation based on D£. This project has been forked from C3.js.

Category
Analytics, Dataviz

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c3 = page.ui.charts.billboard.bar(results, y_columns=['Value'], x_axis="Year")
```

Related Pages:

https://naver.github.io/billboard.js/

property c3: *C3*

Interface to the JavaScript C3 module.

Category
Analytics, Dataviz

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c3 = page.ui.charts.c3.line(results, y_columns=['Value'], x_axis="Year")
```

Related Pages:

https://c3js.org/

property canvas: *Canvas*

The HTML <canvas> element is used to draw graphics on a web page.

The graphic to the left is created with <canvas>. It shows four elements: a red rectangle, a gradient rectangle, a multicolor rectangle, and a multicolor text.

Usage:

Related Pages:

https://www.w3schools.com/html/html5_canvas.asp

property chartCss: *CompChartCss*

Charts.css is a modern CSS framework. It uses CSS utility classes to style HTML elements as charts.

Category
Web application

Related Pages:

https://chartscss.org/

property chartJs: *ChartJs*

Simple yet flexible JavaScript charting for designers & developers.

Category
Web Application

Usage:

Related Pages:

https://www.chartjs.org/

Returns
A Python ChartJs object

property chartist: Chartist

You may think that this is just yet an other charting library. But Chartist.js is the product of a community that was disappointed about the abilities provided by other charting libraries. Of course there are hundreds of other great charting libraries but after using them there were always tweaks you would have wished for that were not included.

Usage:

```
chart = page.ui.charts.chartist.line()
```

Related Pages:

https://gionkunz.github.io/chartist-js/?utm_source=cdnjs&utm_medium=cdnjs_link&utm_campaign=cdnjs_library

property d3: *D3*

D3.js is a JavaScript library for manipulating documents based on data.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://d3js.org/

property dc: *DC*

dc.js is a javascript charting library with native crossfilter support, allowing highly efficient exploration on large multi-dimensional datasets (inspired by crossfilter's demo).

Category
Analytics, Dataviz

Usage:

Related Pages:

https://dc-js.github.io/dc.js/

property frappe: *CompChartFrappe*

GitHub-inspired simple and modern SVG charts for the web with zero dependencies.

Category
Web application

Related Pages:

https://frappe.io/charts

property google: *ChartGoogle*

Google chart tools are powerful, simple to use, and free. Try out our rich gallery of interactive charts and data tools.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://developers.google.com/chart

menu(*chart: Html*, *height: Optional[Union[tuple, int, str]] = (18, 'px')*, *options: Optional[dict] = None*, *post: Optional[Union[List[Union[str, JsDataModel]], str]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Col

Add a standard menu on the table to trigger standard operation (add, empty, copy, download).

Parameters

- **chart** – The chart component
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **post** – Optional.
- **profile** – Optional. A flag to set the component performance storage

property nvd3: *Nvd3*

Interface to the Javascript NVD3 library.

Category
Analytics, Web application

Usage:

Related Pages:

http://nvd3.org/

plot(*pkg: str = 'apex'*, *record=None*, *y: Optional[list] = None*, *x: Optional[str] = None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Generic shortcut to plot a chart in the framework. Family and kind of chart are passed in parameter.

Usage:

```
:param pkg: Optional. The external chart package reference. Default ApexCharts
:param record: Optional. The list of dictionaries with the input data
:param y: Optional. The columns corresponding to keys in the dictionaries in␣
↪the record
:param x: Optional. The column corresponding to a key in the dictionaries in␣
↪the record
:param kind: Optional. The chart type
:param profile:  Optional. A flag to set the component performance storage
:param width: Optional. The width of the component in the page, default (100, '%
↪')
:param height: Optional. The height of the component in the page, default (330,
↪"px")
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

property plotly: *Plotly*

Built on top of d3.js and stack.gl, Plotly.js is a high-level, declarative charting library. plotly.js ships with over 40 chart types, including 3D charts, statistical graphs, and SVG maps.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://plotly.com/javascript/

Returns
A Python Plotly object

property roughviz: *CompRoughViz*

Reusable JavaScript library for creating sketchy/hand-drawn styled charts in the browser.

Category
Web application

Related Pages:

https://github.com/jwilber/roughViz

skillbars(*records=None*, *y_column: Optional[str] = None*, *x_axis: Optional[str] = None*, *title: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → SkillBar

Python interface for the HTML Skill bars, simple bars chart done in pure Javascript and CSS.

Category
Web Application, Analytics

Usage:

```
records = [
  {"label": 'python', 'value': 12}, {"label": 'Java', 'value': 5}, {"label":
↪'Javascript', 'value': 80}]
page.ui.charts.skillbars(records, y_column='value', x_axis='label').css({"width
↪": '100px'})

s3 = page.ui.charts.skillbars(records, y_column='value', x_axis='label')
s3.options.height = "10px"
```

Related Pages:

https://www.w3schools.com/howto/howto_css_skill_bar.asp

Parameters

- **records** – Optional. The Python list of dictionaries
- **y_column** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

sparkline(*chart_type: str*, *data*, *title: Optional[str] = None*, *options: Optional[dict] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *profile: Optional[Union[bool, dict]] = False*) → Sparklines

Display a sparkline component.

Category
Web Application, Analytics

Usage:

```
page.ui.charts.sparkline("box", [1, 2, 3, 4, 5, 4, 3, 2, 1])
page.ui.charts.sparkline("bar", [1, 2, 3, 4, 5, 4, 3, 2, 10])
chart = page.ui.charts.sparkline("line", [1, 2, 3, 4, 5, 4, 3, 2, 10])
chart.click([
  page.js.console.log(chart.dom.val),
  page.js.console.log(chart.dom.content),
  page.js.console.log(chart.dom.offset)
])
```

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **chart_type** – The type of chart (bullet, line, bar, tristate, discrete, pie, box)
- **data** – A String corresponding to a JavaScript object
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **title** – Optional. A panel title. This will be attached to the title property
- **profile** – Optional. A flag to set the component performance storage

Returns
A python Sparkline object

property sparklines: *Sparkline*

Display a sparkline component.

Category
Web Application, Analytics

Usage:

```
page.ui.charts.sparklinea.box([1, 2, 3, 4, 5, 4, 3, 2, 1])
page.ui.charts.sparklines.bar([1, 2, 3, 4, 5, 4, 3, 2, 10])
```

Related Pages:

https://plotly.com/javascript/

property svg: *SVG*

SVG defines vector-based graphics in XML format.

Usage:

Related Pages:

https://www.w3schools.com/graphics/svg_intro.asp

property vega: *VegaEmbedded*

Vega – A Visualization Grammar.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://vega.github.io/vega/

Returns
A Python Vega object

property vis: *Vis*

A dynamic, browser based visualization library.

Category
Analytics, Dataviz

Usage:

Related Pages:

https://visjs.org/

ApexChart Interface

class epyk.interfaces.graphs.CompChartsApex.**ApexChart**(*ui*)

area(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display an area chart from Apexcharts.

Tags
Categories

Usage:

```
chart_texas = page.ui.charts.apex.area(state_data, ["cases", "deaths"], 'date')
chart_texas.options.dataLabels.enabled = False
chart_texas.options.title.text = state
chart_texas.options.subtitle.text = "Cases"
chart_texas.options.chart.events.custom_config("beforeResetZoom",
↪"function(chartContext, config) { console.log('ok')}", True)
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries

- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a bar chart from Apexcharts.

Tags
Categories

Usage:

```
chart = page.ui.charts.apex.bar()
chart.options.dataLabels.enabled = False
series = chart.options.add_series()
series.name = "Test Series"
series.data = [45, 23, 87, 5]
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bubble(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a bubble chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

donut(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a donut chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

gauge(*values: float = 0*, *labels: str = ''*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a gauge chart from ApexCharts.

Tags
Categories

Related Pages:

https://apexcharts.com/javascript-chart-demos/radialbar-charts/multiple-radialbars/

Parameters

- **values** – Optional. The gauge value
- **labels** – Optional. The gauge label
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

hbar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a horizontal bars chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

heatmap(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a heatmap chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*, ***kwargs*)

Display a line chart from ApexCharts.

Tags
Categories

Usage:

```
chart = page.ui.charts.apex.line()
chart.options.chart.sparkline.enabled = True
chart.options.title.text = "$235,312"
chart.options.subtitle.text = "Expenses"
chart.options.dataLabels.enabled = False
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

pie(*records=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a pie chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **records** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – The width of the component in the page, default (100, '%')
- **height** – The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record=None*, *y: Optional[list] = None*, *x: Optional[str] = None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*)

Tags
Categories

Usage:

```
:param record: Optional. The list of dictionaries with the input data
:param y: Optional. The columns corresponding to keys in the dictionaries in␣
↪the record
:param x: Optional. The column corresponding to a key in the dictionaries in␣
↪the record
:param kind: Optional. The chart type
:param profile: Optional. A flag to set the component performance storage
:param width: Optional. The width of the component in the page, default (100, '%
↪')
:param height: Optional. The height of the component in the page, default (330,
↪"px")
:param options: Optional. Specific Python options available for this component
```

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```
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

polar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a polar chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

radar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a radar chart from Apexcharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit

- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

radial(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a radial chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

scatter(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a scatter chart from Apexchart.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record

- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

treemap(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*)

Display a treemap chart from ApexCharts.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – The Python list of dictionaries
- **y_columns** – The columns corresponding to keys in the dictionaries in the record
- **x_axis** – The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

Billboard Interface

class epyk.interfaces.graphs.CompChartsBillboard.**Billboard**(*ui*)

area(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a area chart from Billboard.

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c = page.ui.charts.bb.area(data, y_columns=["Value"], x_axis="Year",␣
↪height=(500, "px"))
c.options.axis.y.tick.formats.scale(1000000)
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.AreaChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

area_step(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a area step chart from Billboard.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 40)
area_step = page.ui.charts.billboard.area_step(data, y_columns=list(range(4)),␣
↪x_axis='x')
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.AreaChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

bar(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a bar chart from Billboard.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 40)
b = page.ui.charts.billboard.bar(data, y_columns=list(range(4)), x_axis='x')
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.BarChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

bubble(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a bubble chart from Billboard.

Tags
Categories

Usage:

```
c = page.ui.charts.bb.bubble(y_columns=["Value"], x_axis="Year", height=(500,
↪"px"))
c.options.axis.y.tick.formats.scale(1000000)
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.BubbleChart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

donut(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a donut chart from Billboard.

Tags
Categories

Usage:

```
from epyk.mocks import urls as data_urls

data = randoms.getSeries(5, 40)
p = page.ui.charts.billboard.donut(data, y_columns=[1], x_axis='g')
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.DonutChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

gauge(*value: int = 0*, *text: str = ''*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Display a gauge chart from Billboard.

Tags
Categories

Usage:

```
g = page.ui.charts.billboard.gauge(60)
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.GaugeChart

Parameters

- **value** – Integer. Optional. The gauge chart value.
- **text** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

hbar(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a horizontal bar chart from Billboard.

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c = page.ui.charts.bb.hbar(data, y_columns=["Value"], x_axis="Year",␣
↪height=(500, "px"))
c.options.axis.y.tick.formats.scale(1000000)
c.options.axis.x.tick.count = 5
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.BarChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

line(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a line chart from Billboard.

Tags
Categories

Usage:

```
dataPoints = [
  {'x': 0, 'y': 10, 'y1': 10},
  {'x': 1, 'y': 35, 'y1': 20}]
chart = page.ui.charts.billboard.line(dataPoints, y_columns=["y", 'y1'], x_axis=
↪'x')
page.ui.button("reset").click([chart.build(dataPoints2)])
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line_range(*record=None*, *y_columns=None*, *x_axis=None*, *range=5*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a line range chart from Billboard.

Tags
Categories

Usage:

```
dataPoints = [
  {'x': 0, 'y': 10, 'y1': 10},
  {'x': 1, 'y': 35, 'y1': 20},
  {'x': 2, 'y': 25, 'y1': 10},
  {'x': 3, 'y': 30, 'y1': 5},
  {'x': 4, 'y': 28, 'y1': 10}]
c = page.ui.charts.billboard.line_range(dataPoints, y_columns=["y", 'y1'], x_
↪axis='x')
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

pie(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a pie chart from Billboard.

Tags
Categories

Usage:

```
from epyk.mocks import urls as data_urls

data = randoms.getSeries(5, 40)
p = page.ui.charts.billboard.pie(data, y_columns=[1], x_axis='g')
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.PieChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

plot(*record=None*, *y=None*, *x=None*, *kind='line'*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*, ***kwargs*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x** – Optional. The column corresponding to a key in the dictionaries in the record
- **kind** – Optional. The chart type
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

radar(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a radar chart from Billboard.

Tags
Categories

Usage:

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.RadarChart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

scatter(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a scatter chart from Billboard.

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c = page.ui.charts.bb.scatter(data, y_columns=["Value"], x_axis="Year",␣
↪height=(500, "px"))
c.options.axis.y.tick.formats.scale(1000000)
c.options.axis.x.tick.count = 5
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.ScatterPlot

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

spline(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a spline chart from Billboard.

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c = page.ui.charts.bb.spline(data, y_columns=["Value"], x_axis="Year",␣
↪height=(500, "px"))
c.options.axis.y.tick.formats.scale(1000000)
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.SplineChart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

stacked(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a stacked bar chart from Billboard.

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c = page.ui.charts.bb.stacked(data, y_columns=["Value"], x_axis="Year",␣
↪height=(500, "px"))
c.options.axis.y.tick.formats.scale(1000000)
c.options.axis.x.tick.count = 5
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.StackedBarChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

step(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Display a step chart from Billboard.

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.DEMO_COUNTRY)
c = page.ui.charts.bb.step(data, y_columns=["Value"], x_axis="Year",␣
↪height=(500, "px"))
c.options.axis.y.tick.formats.scale(1000000)
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.StepChart

Parameters

- **record** – Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

timeseries(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Display a timeseries chart from Billboard.

Tags
Categories

Usage:

```
from epyk.mocks import urls as data_urls

data_rest = page.py.requests.csv(data_urls.PLOTLY_APPLE_PRICES)
ts = page.ui.charts.billboard.timeseries(data_rest, y_columns=['AAPL.Open'], x_
↪axis="Date")
```

Related Pages:

https://naver.github.io/billboard.js/demo/#Chart.LineChart

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.

- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

C3 Interface

class epyk.interfaces.graphs.CompChartsC3.**C3**(*ui*)

area(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display an area line chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/chart_step.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

area_step(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a area step line chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/chart_step.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a bar chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/chart_bar.html

Parameters

- **record** – Optional. The Python list of dictionaries.
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Optional. A flag to set the component performance storage.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).

donut(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a donut chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/chart_donut.html

Parameters

- **record** – Optional. The Python list of dictionaries.
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Optional. A flag to set the component performance storage.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).

gauge(*value: float = 0*, *text: str = ''*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*)

Display a gauge chart from C3.

Tags
Categories

Usage:

```
c = page.ui.charts.c3.gauge(45)
page.ui.button("Update").click([c.build(10)])
```

Related Pages:

https://c3js.org/samples/chart_gauge.html

Parameters

- **value** – Optional. The value
- **text** – Optional. The gauge text
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

hbar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a horizontal bar chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/axes_rotated.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a line chart from C3.

Tags
Categories

Usage:

```
dataPoints = [
  {'x': 0, 'y': 10, 'y1': 10},
  {'x': 1, 'y': 35, 'y1': 20},
  {'x': 2, 'y': 25, 'y1': 10},
  {'x': 3, 'y': 30, 'y1': 5},
  {'x': 4, 'y': 28, 'y1': 10}]
c = page.ui.charts.c3.line(dataPoints2, y_columns=["y", 'y1'], x_axis='x')
↪#dataPoints, y_columns=["y", 'y1'], x_axis='x')
```

Related Pages:

https://c3js.org/reference.html#line-connectNull

Parameters

- **record** – Optional. The Python list of dictionaries

- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

pie(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a pie chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/chart_pie.html https://c3js.org/reference.html#pie-label-show

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record=None*, *y=None*, *x=None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*, ***kwargs*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y** – Optional. The columns corresponding to keys in the dictionaries in the record

- **x** – Optional. The column corresponding to a key in the dictionaries in the record
- **kind** – Optional. The chart type
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

scatter(*record=None*, *y_columns=None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a Scatter chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/axes_rotated.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

spline(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a spline line chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/chart_spline.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

stanford(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *epoch_col=None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Tags
Categories

Related Pages:

https://c3js.org/samples/chart_stanford.html

Usage:

```
:param record: Optional. The Python list of dictionaries
:param y_columns: Optional. The columns corresponding to keys in the␣
↪dictionaries in the record
:param x_axis: Optional. The column corresponding to a key in the dictionaries␣
↪in the record
:param epoch_col: Optional. The column corresponding to a key
:param profile: Optional. A flag to set the component performance storage
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

step(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Display a step line chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/chart_step.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

timeseries(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*)

Display a timeseries chart from C3.

Tags
Categories

Usage:

Related Pages:

https://c3js.org/samples/timeseries.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

Canvas Interface

class epyk.interfaces.graphs.CompChartsCanvas.**Canvas**(*ui*)

new(*height: Optional[Union[tuple, int, str]] = (400, 'px')*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

The HTML <canvas> tag is used to draw graphics, on the fly, via scripting (usually JavaScript).

However, the <canvas> element has no drawing abilities of its own (it is only a container for graphics) - you must use a script to actually draw the graphics.

The getContext() method returns an object that provides methods and properties for drawing on the canvas.

This reference will cover the properties and methods of the getContext("2d") object, which can be used to draw text, lines, boxes, circles, and more - on the canvas

Tags
Categories

Related Pages:

https://www.w3schools.com/tags/ref_canvas.asp

Usage:

```
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param profile: Optional. A flag to set the component performance storage
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

CompChartCss Interface

class epyk.interfaces.graphs.CompChartsChartCss.**CompChartCss**(*ui*)

area(*record=None*, *y_columns=None*, *x_axis=None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartCssBarArea

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bar(*record=None*, *y_columns=None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartCssBar

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record=None*, *y_columns=None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartCss

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record=None*, *y=None*, *x=None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x** – Optional. The column corresponding to a key in the dictionaries in the record
- **kind** – Optional. The chart type
- **profile** – Optional. A flag to set the component performance storage

- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

stacked(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartCssBarStacked

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

ChartJs Interface

class epyk.interfaces.graphs.CompChartsChartJs.**ChartJs**(*ui*)

area(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartLine

Display a area chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://www.chartjs.org/samples/latest/charts/area/line-stacked.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')

- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bar(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*) → ChartBar

Display a bar chart from ChartJs.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
page.ui.charts.chartJs.bar(data, y_columns=[1, 2, 3], x_axis='x')
```

Related Pages:

https://www.chartjs.org/samples/latest/scriptable/bar.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bubble(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *r_values: Optional[list] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*) → ChartBubble

Display a bubble chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://www.chartjs.org/samples/latest/scriptable/bubble.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **r_values** – Optional. Set the r for the points on the chart
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

custom(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartExts

Display a bespoke chart from ChartJs.

It is important to get a NodeJs with the extra packages installed to use this interface. This will not download the external required resources and it will rely on the setup of the Node server.

Tags
Categories

Usage:

```
c = page.ui.charts.chartJs.custom(randoms.languages, y_columns=["rating",
↪'change'], x_axis='name',
          options={"type": 'sankey', 'npm': 'chartjs-chart-sankey',
                   'npm_path': '../NodeJs/node_modules'})
```

Related Pages:

https://www.chartjs.org/samples/latest/scriptable/bar.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

donut(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartPie

Display a donut chart from ChartJs.

Tags
Categories

Usage:

```
page = pk.Page()
df = pd.DataFrame({'Sales': [5000, 1222, 2000], 'Other': [500, 122, 200]},␣
↪index=['TV', 'Smartphones', 'DVD'])
chart1 = page.ui.charts.chartJs.donut(df.to_dict("records"), y_columns=['Sales
↪'], x_axis="Other")
chart1.click([
  page.js.console.log(chart1.dom.active()),
  chart1.build([{"Sales": 10, "Other": "A"}, {"Sales": 15, "Other": "B"}])
])
```

Related Pages:

https://www.chartjs.org/samples/latest/charts/doughnut.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

fabric(*profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → Fabric

Tags
Categories

Usage:

```
:param profile: Optional. A flag to set the component performance storage
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param options: Optional. Specific Python options available for this component
```

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```
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

hbar(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartHBar

Display a horizontal bar chart from ChartJs.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
chart = page.ui.charts.chartJs.hbar(data[:5], y_columns=list(range(4)), x_axis=
↪'x')
chart.click([page.js.console.log(chart.js.value)])
```

Related Pages:

https://www.chartjs.org/samples/latest/scriptable/bar.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

hierarchical(*record: Optional[list] = None*, *labels: Optional[list] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *horizontal: bool = False*, *kind: str = 'bar'*, *html_code: Optional[str] = None*, ***kwargs*) → ChartHyr

Chart.js module for adding a new categorical scale which mimics a hierarchical tree.

Related Pages:

https://github.com/sgratzl/chartjs-plugin-hierarchical https://github.com/sgratzl/chartjs-plugin-hierarchical/blob/main/samples/deep_hierarchy.html

Parameters

- **record** –
- **labels** –

- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **horizontal** – Optional.
- **kind** – Optional.
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartLine

Display a line chart from ChartJs.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
chart = page.ui.charts.chartJs.line(data, y_columns=[3, 4], x_axis='x')
```

Related Pages:

https://www.chartjs.org/ https://www.chartjs.org/samples/latest/scales/logarithmic/line.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

matrix(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartMatrix

Display a matrix chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://github.com/kurkle/chartjs-chart-matrix https://chartjs-chart-matrix.pages.dev/

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

multi(*kind: str*, *record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[dict] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*, ***kwargs*) → ChartBar

Display a multi chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://www.chartjs.org/samples/latest/charts/combo-bar-line.html

Parameters

- **kind** – The chart type
- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

pie(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*) → ChartPie

Display a pie chart from ChartJs.

Tags
Categories

Usage:

```
page = pk.Page()
df = pd.DataFrame({'Sales': [5000, 1222, 2000], 'Other': [500, 122, 200]},␣
↪index=['TV', 'Smartphones', 'DVD'])
chart1 = page.ui.charts.chartJs.pie(df.to_dict("records"), y_columns=['Sales'],␣
↪x_axis="Other")
chart1.click([
  page.js.console.log(chart1.dom.active()),
  chart1.build([{"Sales": 10, "Other": "A"}, {"Sales": 15, "Other": "B"}])
])
```

Related Pages:

https://www.chartjs.org/samples/latest/charts/pie.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. To set the profiling
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record: Optional[list] = None*, *y: Optional[list] = None*, *x: Optional[str] = None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → Chart

Generic way to define ChartJs charts.

Tags
Categories

Usage:

Related Pages:

https://www.chartjs.org/

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x** – Optional. The column corresponding to a key in the dictionaries in the record

- **kind** – Optional. The chart type
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

polar(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartPolar

Display a bubble chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://www.chartjs.org/samples/latest/charts/polar-area.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

radar(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartRadar

Display a bubble chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://www.chartjs.org/samples/latest/charts/radar.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

sankey(*record: Optional[List[dict]] = None*, *label: str = ''*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartSankey

To create a sankey chart, include chartjs-chart-sankey.js after chart.js and then create the chart by setting the type attribute to 'sankey'

Usage:

```
data = [
        {"from": 'a', "to": 'b', "flow": 10},
        {"from": 'a', "to": 'c', "flow": 5},]
chart = page.ui.charts.chartJs.sankey(data, label="series")
chart.click(
    chart.build([{"from": 'a', "to": 'b', "flow": 10}]))
```

Related Pages:

https://npm.io/package/chartjs-chart-sankey

scatter(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartScatter

Display a scatter chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://www.chartjs.org/samples/latest/charts/scatter/basic.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")

- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

set_version(*v: str*)

Change the version of the chartJs package. Use **self.page.imports.pkgs.chart_js.version** to get the current version.

Usage:

```
page.ui.charts.chartJs.set_version("2.9.4").line(languages, y_columns=['change
↪'], x_axis="name")
```

Parameters

v – The version number

step(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*)

Display a step chart from ChartJs.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
chart = page.ui.charts.chartJs.step(data, y_columns=list(range(4)), x_axis='x')
chart.options.showLines = True
```

Related Pages:

https://www.chartjs.org/samples/latest/scales/linear/step-size.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

timeseries(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartLine

Display a line chart from ChartJs.

Tags
Categories

Usage:

```
from epyk.mocks import urls as data_urls

data_rest = page.py.requests.csv(data_urls.PLOTLY_APPLE_PRICES)
ts = page.ui.charts.chartJs.timeseries(data_rest, y_columns=['AAPL.Open'], x_
↪axis="Date")
```

Related Pages:

https://www.chartjs.org/ https://www.chartjs.org/samples/latest/scales/logarithmic/line.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

treemap(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *groups: Optional[list] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartTreeMap

Display a treemap chart from ChartJs.

Tags
Categories

Usage:

Related Pages:

https://chartjs-chart-treemap.pages.dev/usage.html

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record

- **groups** – Optional. The columns corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

wordcloud(*record: Optional[list] = None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[dict] = None*, *html_code: Optional[str] = None*, ***kwargs*) → ChartWordCloud

Chart.js module for charting word or tag clouds. Adding new chart type: wordCloud.

Tags
Categories

Usage:

```
fake = Faker()
rec = [{"Sales": random.randint(1, 100), "Other": fake.name()} for _ in␣
↪range(40)]
chart1 = page.ui.charts.chartJs.wordcloud(rec, y_columns=['Sales'], x_axis=
↪"Other")
page.ui.button("click").click([
  chart1.build([{"Sales": 40, "Other": 30}, {"Sales": 1, "Other": 1}, {"Sales":␣
↪15, "Other": 5}])])
```

Related Pages:

https://github.com/sgratzl/chartjs-chart-wordcloud

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

D3 Interface

class epyk.interfaces.graphs.CompChartsD3.**D3**(*ui*)

bar(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

TODO: Handle multiple series correctly.

Usage:

```
page.ui.charts.d3.bar(mocks.languages, y_columns=["rating"], x_axis="change")
```

Related Pages:

https://gramener.github.io/d3js-playbook/barchart.html

Parameters

- **record** – Object. Optional. The chart input data to be serialised.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

cloud(*data*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*, *options=None*, *profile=None*, *excluded_words=None*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **data** – Object. Optional. The chart input data to be serialised.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).
- **excluded_words** – list of words to be excluded from the display.

pie(*record=None*, *y=None*, *x=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Related Pages:

https://gramener.github.io/d3js-playbook/barchart.html

TODO Add events

.on("click", function(d,i) { console.log(d) }).on("mouseover", function() {

d3.select(this).style("fill", "red")

}).on("mouseout", function() {
d3.select(this).style("fill", function(d,i) {options.colors[i]})

})

Parameters

- **record** – Object. Optional. The chart input data to be serialised.
- **y** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

scatter(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

TODO: Handle multiple series correctly.

Usage:

```
page.ui.charts.d3.scatter(mocks.languages, y_columns=["rating"], x_axis="change
↪")
```

Related Pages:

https://gramener.github.io/d3js-playbook/barchart.html

Parameters

- **record** – Object. Optional. The chart input data to be serialised.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.

- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

script(*name*, *scripts=None*, *data=None*, *d3_version=None*, *dependencies=None*, *profile=None*, *options=None*, *width=(400, 'px')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://gramener.github.io/d3js-playbook/barchart.html

Templates:

Parameters

- **name** – String. The module name.
- **scripts** – List. Optional. The list of scripts.
- **data** – Object. Optional. The chart input data to be serialised.
- **d3_version** – String. Optional. Required version for the underlying D3 package.
- **dependencies** – List. Optional. The required dependency files.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

svg(*profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Parameters

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

DC Interface

class epyk.interfaces.graphs.CompChartsDc.**DC**(*ui*)

bar(*record=None*, *y_columns=None*, *x_axis=None*, *title=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
bar = page.ui.charts.dc.hbar(data[:10], y_columns=4, x_axis='x')
```

Related Pages:

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bubble(*record=None*, *y_columns=None*, *x_axis=None*, *r_axis=None*, *title=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
bubble = page.ui.charts.dc.bubble(data, y_columns=3, x_axis='x', r_axis=4,␣
↪options={'statc_factor': '/10'})
```

Related Pages:

https://square.github.io/crossfilter/ https://dc-js.github.io/dc.js/ https://www.tutorialspoint.com/dcjs/dcjs_bubble_chart.htm

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **r_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

hbar(*record=None*, *y_columns=None*, *x_axis=None*, *title=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
hbar = page.ui.charts.dc.hbar(data[:10], y_columns=4, x_axis='x')
```

Related Pages:

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record=None*, *y_columns=None*, *x_axis: Optional[str] = None*, *title: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*)

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
line = page.ui.charts.dc.line(data, y_columns=[1, 2], x_axis='x')
```

Related Pages:

https://square.github.io/crossfilter/ https://dc-js.github.io/dc.js/

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

pie(*record=None*, *y_columns=None*, *x_axis=None*, *title=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
pie = page.ui.charts.dc.pie(data[:5], y_columns=3, x_axis='x')
```

Related Pages:

https://square.github.io/crossfilter/ https://dc-js.github.io/dc.js/

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit

- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record=None*, *y=None*, *x=None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Tags
Categories

Usage:

```
:param record: Optional. The list of dictionaries with the input data
:param y: Optional. The columns corresponding to keys in the dictionaries in␣
↪the record
:param x: Optional. The column corresponding to a key in the dictionaries in␣
↪the record
:param kind: Optional. The chart type
:param profile: Optional. A flag to set the component performance storage
:param width: Optional. The width of the component in the page, default (100, '%
↪')
:param height: Optional. The height of the component in the page, default (330,
↪"px")
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

scatter(*record=None*, *y_columns=None*, *x_axis=None*, *title=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 30)
scatter = page.ui.charts.dc.scatter(data, y_columns=[2, 4], x_axis='x')
```

Related Pages:

https://square.github.io/crossfilter/ https://dc-js.github.io/dc.js/

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

series(*record=None*, *y_columns=None*, *x_axis=None*, *series_type: str = 'line'*, *title: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*)

Tags
Categories

Usage:

Related Pages:

https://square.github.io/crossfilter/ https://dc-js.github.io/dc.js/

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **series_type** – Optional.
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

set_crossfilter(*record*, *y_columns*, *x_axis: List[str]*, *var_name: str*, *extra_cols: Optional[List[Any]] = None*)

Set a crossfilter object and add the dimensions which will be added to a chart.

Tags
Categories

Usage:

```
:param record: The Python list of dictionaries
:param y_columns: The columns corresponding to keys in the dictionaries in the␣
↪record
:param x_axis: The column corresponding to a key in the dictionaries in the␣
↪record
:param var_name:
:param extra_cols: Optional.
```

step(*record=None*, *y_columns=None*, *x_axis=None*, *title=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

sunburst(*record=None*, *y_columns=None*, *x_axis=None*, *title=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://square.github.io/crossfilter/ https://dc-js.github.io/dc.js/

Parameters

- **record** –
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **title** – Optional. The chart title
- **profile** – Optional. A flag to set the component performance storage
- **options** – Optional. Specific Python options available for this component
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

CompChartFrappe Interface

class epyk.interfaces.graphs.CompChartsFrappe.**CompChartFrappe**(*ui*)

bar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Create a bar chart from Frappe Chart libraries.

Usage:

```
c = page.ui.charts.frappe.bar(y_columns=["Value"], x_axis="Year", height=(500,
↪"px"))
text = page.ui.input("Italy")
slider = page.ui.sliders.range(minimum=1990, maximum=2020)
page.ui.button("Click").click([
page.js.d3.csv(data_urls.DEMO_COUNTRY).filterCol("Country Name", text.dom.
↪content).cast(["Year", "Value"]).
   filterCol("Year", slider.dom.min_select, ">").filterCol("Year", slider.dom.
↪max_select, "<").get(
     [#"data = data.slice(1)",
    c.build(pk.events.data)])
])
```

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, "%")
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

donut(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, "%")

- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

heatmap(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Create a line chart from Frappe Chart libraries.

Usage:

```
c = page.ui.charts.frappe.line(y_columns=["Value"], x_axis="Year", height=(500,
↪"px"))
text = page.ui.input("Italy")
slider = page.ui.sliders.range(minimum=1990, maximum=2020)
page.ui.button("Click").click([
page.js.d3.csv(data_urls.DEMO_COUNTRY).filterCol("Country Name", text.dom.
↪content).cast(["Year", "Value"]).
   filterCol("Year", slider.dom.min_select, ">").filterCol("Year", slider.dom.
↪max_select, "<").get(
     [#"data = data.slice(1)",
    c.build(pk.events.data)])
])
```

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** – Optional. A flag to set the component performance storage

- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

percentage(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Usage:

```
c = page.ui.charts.frappe.percentage(y_columns=["Value"], x_axis="Year",␣
↪height=(500, "px"))
text = page.ui.input("Italy")
slider = page.ui.sliders.range(minimum=1990, maximum=2020)
page.ui.button("Click").click([
  page.js.fetch(data_urls.DEMO_COUNTRY).csvtoRecords().filterCol(
      "Country Name", text.dom.content).cast(["Year", "Value"]).
    filterCol("Year", slider.dom.min_select, ">").filterCol("Year", slider.dom.
↪max_select, "<").
    get([
      c.build(pk.events.data),
  ])
])
```

Parameters

- **record** –
- **y_columns** –
- **x_axis** –
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

pie(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Parameters

- **record** –
- **y_columns** –
- **x_axis** –

- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record=None*, *y=None*, *x=None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x** – Optional. The column corresponding to a key in the dictionaries in the record
- **kind** – Optional. The chart type
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

ChartGoogle Interface

class epyk.interfaces.graphs.CompChartsGoogle.**ChartGoogle**(*ui*)

area(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

An area chart that is rendered within the browser using SVG or VML. Displays tips when hovering over points.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/areachart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bar(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

Google bar charts are rendered in the browser using SVG or VML, whichever is appropriate for the user's browser. Like all Google charts, bar charts display tooltips when the user hovers over the data. For a vertical version of this chart, see the column chart.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/barchart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bubble(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A bubble chart that is rendered within the browser using SVG or VML. Displays tips when hovering over bubbles.

A bubble chart is used to visualize a data set with two to four dimensions. The first two dimensions are visualized as coordinates, the third as color and the fourth as size.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/bubblechart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

candlestick(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A candlestick chart is used to show an opening and closing value overlaid on top of a total variance. Candlestick charts are often used to show stock value behavior. In this chart, items where the opening value is less than the closing value (a gain) are drawn as filled boxes, and items where the opening value is more than the closing value (a loss) are drawn as hollow boxes.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/candlestickchart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

column(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A column chart is a vertical bar chart rendered in the browser using SVG or VML, whichever is appropriate for the user's browser. Like all Google charts, column charts display tooltips when the user hovers over the data. For a horizontal version of this chart, see the bar chart.

Tags
Categories

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/columnchart

Usage:

```
:param record: Optional. The Python list of dictionaries
:param y_columns: Optional. The columns corresponding to keys in the␣
↪dictionaries in the record
:param x_axis: Optional. The column corresponding to a key in the dictionaries␣
↪in the record
:param profile: Optional. A flag to set the component performance storage
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

donut(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*)

A donut chart that is rendered within the browser using SVG or VML. Displays tooltips when hovering over slices.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/piechart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

gauge(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A gauge with a dial, rendered within the browser using SVG or VML.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/gauge

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

geo(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A geochart is a map of a country, a continent, or a region with areas identified in one of three ways:

The region mode colors whole regions, such as countries, provinces, or states. The markers mode uses circles to designate regions that are scaled according to a value that you specify. The text mode labels the regions with identifiers (e.g., "Russia" or "Asia").

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/geochart

Parameters

- **record** – Optional. The Python list of dictionaries

- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

hbar(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

Google bar charts are rendered in the browser using SVG or VML, whichever is appropriate for the user's browser. Like all Google charts, bar charts display tooltips when the user hovers over the data. For a vertical version of this chart, see the column chart.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/barchart

Parameters

- **record** – Optional. The Python list of dictionaries.
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Optional. A flag to set the component performance storage.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).

histogram(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A histogram is a chart that groups numeric data into bins, displaying the bins as segmented columns. They're used to depict the distribution of a dataset: how often values fall into ranges.

Google Charts automatically chooses the number of bins for you. All bins are equal width and have a height proportional to the number of data points in the bin. In other respects, histograms are similar to column charts.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/histogram

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A line chart that is rendered within the browser using SVG or VML. Displays tooltips when hovering over points.

Tags
Categories

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/linechart

Usage:

```
:param record: Optional. The Python list of dictionaries
:param y_columns: Optional. The columns corresponding to keys in the␣
↪dictionaries in the record
:param x_axis: Optional. The column corresponding to a key in the dictionaries␣
↪in the record
:param profile: Optional. A flag to set the component performance storage
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

pie(*record*, *y_columns=None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

A pie chart that is rendered within the browser using SVG or VML. Displays tooltips when hovering over slices.

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/piechart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record=None*, *y=None*, *x=None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

Tags
Categories

Usage:

```
:param record: Optional. The list of dictionaries with the input data
:param y: Optional. The columns corresponding to keys in the dictionaries in␣
↪the record
:param x: Optional. The column corresponding to a key in the dictionaries in␣
↪the record
:param kind: Optional. The chart type
:param profile: Optional. A flag to set the component performance storage
:param width: Optional. The width of the component in the page, default (100, '%
↪')
:param height: Optional. The height of the component in the page, default (330,
↪"px")
:param options: Optional. Specific Python options available for this component
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
```

scatter(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

Scatter charts plot points on a graph. When the user hovers over the points, tooltips are displayed with more information.

Google scatter charts are rendered within the browser using SVG or VML depending on browser capabilities.

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/scatterchart

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

treemap(*record*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*) → ChartLine

Tags
Categories

Usage:

Related Pages:

https://developers.google.com/chart/interactive/docs/gallery/treemap

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

Nvd3 Interface

class epyk.interfaces.graphs.CompChartsNvd3.**Nvd3**(*ui*)

area(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartArea

Display an area chart from NVD3.

Tags
Categories

Usage:

Related Pages:

http://nvd3.org/examples/discreteBar.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

bar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartBar

Display a bars chart from NVD3.

Tags
Categories

Usage:

```
c = page.ui.charts.nvd3.bar(y_columns=["Value"], x_axis="Year", height=(500, "px
↪"))
page.ui.button("Click").click([
text = page.ui.input("Italy")
slider = page.ui.sliders.range(minimum=1990, maximum=2020)
page.js.fetch(data_urls.DEMO_COUNTRY).csvtoRecords().filterCol("Country Name",␣
↪text.dom.content).cast(["Year", "Value"]).
  filterCol("Year", slider.dom.min_select, ">").filterCol("Year", slider.dom.
↪max_select, "<").
  get([
    c.build(pk.events.data)
```

(continues on next page)

(continued from previous page)

```
    #"console.log(row)"
  ])
])
```

Related Pages:

http://nvd3.org/examples/discreteBar.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

candlestick(*record*, *closes*, *highs*, *lows*, *opens*, *x_axis*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.PLOTLY_APPLE_PRICES)
sc = page.ui.charts.nvd3.candlestick(data, closes=["AAPL.Close"], highs=["AAPL.
↪High"], lows=["AAPL.Low"],
    opens=["AAPL.Open"], x_axis='Date')

# Example using pandas_datareader
import pandas_datareader.data as pdr

btc = pdr.get_data_yahoo("BTC-USD", datetime.strptime(start, '%Y-%m-%d'),␣
↪datetime.strptime(end, '%Y-%m-%d'))
btc.reset_index(inplace=True)
btc["Date"] = btc["Date"].dt.strftime("%Y-%m-%d")

c1 = page.ui.charts.nvd3.candlestick(
  btc.to_dict("records"), closes=["Adj Close"], highs=["High"], lows=["Low"],␣
↪opens=["Open"], x_axis="Date")
c1.shared.y_format_number(factor=1000)
c1.shared.y_label("$")
```

Related Pages:

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.

- **closes** –
- **highs** –
- **lows** –
- **opens** –
- **x_axis** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

donut(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartPie

Display a donut chart from NVD3.

Tags
Categories

Usage:

```
c = page.ui.charts.nvd3.donut(y_columns=["Value"], x_axis="Year", height=(500,
↪"px"))
donut_s = page.ui.charts.nvd3.donut(data, y_columns=[1], x_axis='g')
donut_s.dom.padAngle(.08).cornerRadius(5)
```

Related Pages:

http://nvd3.org/examples/pie.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

forceDirected(*profile=None*, *options=None*, *width=(400, 'px')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
force = page.ui.charts.nvd3.forceDirected()
force.add_trace({
    "nodes": [
      {"name": "Myriel", "group":1},
      {"name": "Napoleon", "group":1},
      {"name": "Mlle.Baptistine", "group": 5}],
    "links": [
      {"source": 1, "target": 2, "value": 1}
    ]
})
```

Related Pages:

Parameters

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

gauge(*value: float*, *text: Optional[str] = None*, *total: float = 100*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartPie

Tags
Categories

Usage:

```
page.ui.charts.nvd3.gauge(value=8, text="", total=10)
```

Related Pages:

http://nvd3.org/examples/pie.html

Parameters

- **value** –
- **text** –
- **total** –
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

group_box(*profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
plot_box = page.ui.charts.nvd3.group_box()
plot_box.add_box(q1=1.05, q3=2.7, mean=3.365, median=1.3, minRegularValue=0.4,␣
↪maxRegularValue=4.4, minOutlier=0.4, maxOutlier=6)
plot_box.add_box(q1=1.05, q3=2.849999996, mean=3.4949999, median=1.5,␣
↪minRegularValue=0.3, maxRegularValue=4.9, minOutlier=0.3, maxOutlier=4.9)
```

Related Pages:

Parameters

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

hbar(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*)

Display a bars chart from NVD3.

Tags
Categories

Usage:

```
c = page.ui.charts.nvd3.hbar(y_columns=["Value"], x_axis="Year", height=(500,
↪"px"))
page.ui.button("Click").click([
text = page.ui.input("Italy")
slider = page.ui.sliders.range(minimum=1990, maximum=2020)
page.js.fetch(data_urls.DEMO_COUNTRY).csvtoRecords().filterCol("Country Name",␣
↪text.dom.content).cast(["Year", "Value"]).
  filterCol("Year", slider.dom.min_select, ">").filterCol("Year", slider.dom.
↪max_select, "<").
  get([
    c.build(pk.events.data)
    #"console.log(row)"
  ])
])
```

Related Pages:

http://nvd3.org/examples/discreteBar.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

histo(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartHistoBar

Display a histo chart from NVD3.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 40)
page.ui.charts.nvd3.histo(data, y_columns=[1, 2], x_axis='x')
```

Related Pages:

http://nvd3.org/examples/discreteBar.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartLine

Display a line chart from NVD3.

Tags
Categories

Usage:

```
c = page.ui.charts.nvd3.line(y_columns=["Value"], x_axis="Year", height=(500,
↪"px"))
page.ui.button("Click").click([
text = page.ui.input("Italy")
slider = page.ui.sliders.range(minimum=1990, maximum=2020)
page.js.fetch(data_urls.DEMO_COUNTRY).csvtoRecords().filterCol("Country Name",␣
↪text.dom.content).cast(["Year", "Value"]).
  filterCol("Year", slider.dom.min_select, ">").filterCol("Year", slider.dom.
↪max_select, "<").
  get([
    c.build(pk.events.data)
    #"console.log(row)"
  ])
])
```

Related Pages:

http://nvd3.org/examples/line.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line_cumulative(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartCumulativeLine

Display a Cumulative line chart from NVD3.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 40)
page.ui.charts.nvd3.line_cumulative(data, y_columns=[1, 2, 3, 4], x_axis='x')
```

Related Pages:

http://nvd3.org/examples/line.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

line_focus(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartFocusLine

Display a line chart with focus from NVD3.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 40)
page.ui.charts.nvd3.line_focus(data, y_columns=[1, 2, 3, 4], x_axis='x')
```

Related Pages:

http://nvd3.org/examples/line.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

multi(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartMultiBar

Display a multi types chart from NVD3.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 40)
page.ui.charts.nvd3.multi(data, y_columns=[1, 2], x_axis='x')
```

Related Pages:

http://nvd3.org/examples/discreteBar.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

ohlc(*record*, *closes*, *highs*, *lows*, *opens*, *x_axis*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
from epyk.mocks import urls as data_urls

data_rest = page.py.requests.csv(data_urls.PLOTLY_APPLE_PRICES)
chart = page.ui.charts.nvd3.ohlc(data_rest, closes=["AAPL.Close"], highs=["AAPL.
↪High"], lows=["AAPL.Low"], opens=["AAPL.Open"], x_axis='Date')
```

Related Pages:

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **closes** –
- **highs** –

- **lows** –
- **opens** –
- **x_axis** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

parallel_coordinates(*record*, *dimensions=None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartParallelCoord

Tags
Categories

Usage:

Related Pages:

Parameters

- **record** – Optional. The Python list of dictionaries
- **dimensions** – Optional.
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

pie(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartPie

Display a pie chart from NVD3.

Tags
Categories

Usage:

```
dataPoints = [
  {'x': "Series A", 'y': 10, 'y1': 10},
  {'x': "Series B", 'y': 35, 'y1': 20},
]

dataPoints2 = [
```

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```
  {'label': "mango", 'x': "Series A", 'y': 30, 'y1': 0},
  {'label': "grape", 'x': "Series B", 'y': 28, 'y1': 0}
]

chart = page.ui.charts.nvd3.pie(dataPoints, y_columns=["y"], x_axis='x')
page.ui.button("Load").click([c.build(nvd3.xy(dataPoints2, ["y"], "x"))])
```

Related Pages:

http://nvd3.org/examples/pie.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

plot(*record=None*, *y=None*, *x=None*, *kind: str = 'line'*, *profile: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *options: Optional[Union[bool, dict]] = None*, *html_code: Optional[str] = None*, ***kwargs*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **record** – Optional. The list of dictionaries with the input data
- **y** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x** – Optional. The column corresponding to a key in the dictionaries in the record
- **kind** – Optional. The chart type
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

scatter(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartScatter

Display a scatter chart from NVD3.

Tags
Categories

Usage:

```
from epyk.mocks import randoms

data = randoms.getSeries(5, 40)
scatter = page.ui.charts.nvd3.scatter(data, y_columns=[1, 2, 3, 4], x_axis='x')
scatter.dom.showYAxis(False).showXAxis(False)
```

Related Pages:

http://nvd3.org/examples/line.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

sunburst(*record*, *name: str*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartSunbrust

Tags
Categories

Usage:

```
records = [
  {'name': 'scripts',
   'children': [
      {"name": "javascript", "size": 10},
      {"name": "python", "size": 5},
      {"name": "ruby", "size": 5},
      {"name": "r", "size": 5}]},
   {"name": "code",
    "children": [
      {"name": "C#", "size": 10},
```

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```
      {"name": "Java", "size": 5},
    ]
    }
]

page.ui.charts.nvd3.sunburst(records, name='languages')
```

Related Pages:

Parameters

- **record** – Optional. The Python list of dictionaries
- **name** – Optional.
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

timeseries(*record=None*, *y_columns: Optional[list] = None*, *x_axis: Optional[str] = None*, *profile: Optional[Union[bool, dict]] = None*, *options: Optional[Union[bool, dict]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (330, 'px')*, *html_code: Optional[str] = None*) → ChartHistoBar

Display a Timseries chart from NVD3.

Tags
Categories

Usage:

Related Pages:

http://nvd3.org/examples/discreteBar.html

Parameters

- **record** – Optional. The Python list of dictionaries
- **y_columns** – Optional. The columns corresponding to keys in the dictionaries in the record
- **x_axis** – Optional. The column corresponding to a key in the dictionaries in the record
- **profile** – Optional. A flag to set the component performance storage
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

Plotly Interface

class epyk.interfaces.graphs.CompChartsPlotly.**Plotly**(*ui*)

Plotly2D Interface

class epyk.interfaces.graphs.CompChartsPlotly.**Plotly2D**(*ui*)

area(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

How to make a D3.js-based filled area plot in javascript. An area chart displays a solid color between the traces of a graph.

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/filled-area-plots/

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

bar(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/bar-charts/

Parameters

- **record** – List of dict. The Python record.

- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

box(*record=None*, *y_columns=None*, *x_columns=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. Optional. The Python list of dictionaries.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_columns: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

bubble(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

How to make a D3.js-based filled area plot in javascript. An area chart displays a solid color between the traces of a graph.

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/bubble-charts/

Parameters

- **record** – List of dict. The Python record.

- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

candlestick(*record*, *closes*, *highs*, *lows*, *opens*, *x_axis*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
data = page.py.requests.csv(data_urls.PLOTLY_APPLE_PRICES)
sc = page.ui.charts.plotly.candlestick(
    data, closes=["AAPL.Close"], highs=["AAPL.High"], lows=["AAPL.Low"], opens=[
↪"AAPL.Open"], x_axis='Date')
```

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **closes** –
- **highs** –
- **lows** –
- **opens** –
- **x_axis** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

donut(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/pie-charts/

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

gauge(*value*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

How to make a D3.js-based gauge chart in javascript.

Tags
Categories

Usage:

```
gauge = page.ui.charts.plotly.gauge(2000)
gauge.data.gauge.axis.range = [0, 5000]
```

Related Pages:

https://plotly.com/javascript/gauge-charts/

Parameters

- **value** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

group_box(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plot.ly/javascript/box-plots/

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

hbar(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/bar-charts/

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

histogram(*record*, *y_columns=None*, *x_columns=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plot.ly/javascript/plotlyjs-function-reference/#common-parameters https://plot.ly/javascript/

Parameters

- **record** –
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_columns** – List. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

Return type
graph.GraphPlotly.Bar

line(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plot.ly/javascript/ https://plot.ly/javascript/plotlyjs-function-reference/#common-parameters

Parameters

- **record** – List. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

number(*value*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/indicator/

Parameters

- **value** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

number_with_delta(*value*, *delta=100*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/indicator/

Parameters

- **value** –
- **delta** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

pie(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/pie-charts/

Parameters

- **record** – List of dict. Optional. The Python records.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

scatter(*record=None*, *y_columns=None*, *x_axis=None*, *text_column=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/text-and-annotations/

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **text_column** – String. Optional.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.

- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

scattergl(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plotly.com/javascript/line-and-scatter/

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

scatterpolar(*record*, *r_columns=None*, *theta_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. Optional. The Python list of dictionaries.
:param r_columns:
:param theta_axis:
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

timeseries(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(330, 'px')*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

https://plot.ly/javascript/#common-parameters https://plot.ly/javascript/plotlyjs-function-reference/

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

Plotly3D Interface

class epyk.interfaces.graphs.CompChartsPlotly.**Plotly3D**(*ui*)

line(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(500, 'px')*, *html_code=None*)

Tags
Categories

Related Pages:

https://plot.ly/javascript/3d-line-plots/

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **z_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

maps(*record*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(500, 'px')*, *html_code=None*)

Tags
Categories
Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

marker(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(500, 'px')*, *html_code=None*)

Tags
Categories

Related Pages:

https://plot.ly/javascript/3d-line-plots/

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **z_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

mesh3d(*record*, *intensity*, *x*, *y*, *z*, *i=None*, *j=None*, *k=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(500, 'px')*, *html_code=None*)

Tags
Categories

Related Pages:

https://plot.ly/javascript/3d-mesh/

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **intensity** –
- **x** –
- **y** –
- **z** –
- **i** –
- **j** –
- **k** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

ribbon(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(500, 'px')*, *html_code=None*)

Create ribbons on the x axis.

Tags
Categories

Related Pages:

https://plot.ly/javascript/ribbon-plots/

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.

- **z_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

scatter(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(500, 'px')*, *html_code=None*)

Tags
Categories

Related Pages:

https://plot.ly/javascript/3d-line-plots/

Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **z_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

surface(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *options=None*, *width=(100, '%')*, *height=(500, 'px')*, *html_code=None*)

Tags
Categories
Parameters

- **record** – List of dict. Optional. The Python list of dictionaries.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.

- **z_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

CompRoughViz Interface

class epyk.interfaces.graphs.CompChartsRoughViz.**CompRoughViz**(*ui*)

bar(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Create a roughViz bar component.

Related Pages:

https://github.com/jwilber/roughViz

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y_columns** – List. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

donut(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Create a roughViz donut component.

Related Pages:

https://github.com/jwilber/roughViz

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y_columns** – List. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. The column corresponding to a key in the dictionaries in the record.

- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

hbar(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Create a roughViz Horizontal bar component.

Related Pages:

https://github.com/jwilber/roughViz

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y_columns** – List. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

line(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Create a roughViz line component.

Related Pages:

https://github.com/jwilber/roughViz

TODO: Find answer for https://stackoverflow.com/questions/67456146/input-data-for-line-chart-in-roughviz

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y_columns** – List. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").

- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

pie(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Create a roughViz pie component.

Related Pages:

https://github.com/jwilber/roughViz

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y_columns** – List. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

plot(*record=None*, *y=None*, *x=None*, *kind='line'*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Create a roughViz chart component.

Related Pages:

https://github.com/jwilber/roughViz

Tags
Categories

Related Pages:

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y** – List | String. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **kind** – String. Optional. The chart type.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").
- **options** – Dictionary. Optional. Specific Python options available for this component.

- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

scatter(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Create a roughViz scatter component.

Related Pages:

https://github.com/jwilber/roughViz

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y_columns** – List. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

Sparkline Interface

class epyk.interfaces.graphs.CompChartsSparkline.**Sparkline**(*ui*)

bar(*data=None*, *title=None*, *options=None*, *width=(None, '%')*, *height=(None, 'px')*, *profile=False*)

Tags
Categories

Usage:

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **data** – String. Optional. A String corresponding to a JavaScript object.
- **title** – String. Optional. A panel title. This will be attached to the title property.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

box_plot(*data=None*, *title=None*, *options=None*, *width=(None, '%')*, *height=(None, 'px')*, *profile=False*)

Tags
Categories

Usage:

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **data** – String. Optional. A String corresponding to a JavaScript object.
- **title** – String. Optional. A panel title. This will be attached to the title property.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

bullet(*data=None*, *title=None*, *options=None*, *width=(None, '%')*, *height=(None, 'px')*, *profile=False*)

Tags
Categories

Usage:

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **data** – String. Optional. A String corresponding to a JavaScript object.
- **title** – String. Optional. A panel title. This will be attached to the title property.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

discrete(*data=None*, *title=None*, *options=None*, *width=(None, '%')*, *height=(None, 'px')*, *profile=False*)

Tags
Categories

Usage:

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **data** – String. Optional. A String corresponding to a JavaScript object.

- **title** – String. Optional. A panel title. This will be attached to the title property.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

line(*data=None*, *title=None*, *options=None*, *width=(None, '%')*, *height=(None, 'px')*, *profile=False*)

Tags
Categories

Usage:

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **data** – String. Optional. A String corresponding to a JavaScript object.
- **title** – String. Optional. A panel title. This will be attached to the title property.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

pie(*data=None*, *title=None*, *options=None*, *width=(None, '%')*, *height=(None, 'px')*, *profile=False*)

Tags
Categories

Usage:

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **data** – String. Optional. A String corresponding to a JavaScript object.
- **title** – String. Optional. A panel title. This will be attached to the title property.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

tristate(*data=None*, *title=None*, *options=None*, *width=(None, '%')*, *height=(None, 'px')*, *profile=False*)

Tags
Categories

Usage:

Related Pages:

https://omnipotent.net/jquery.sparkline/#s-about

Parameters

- **data** – String. Optional. A String corresponding to a JavaScript object.
- **title** – String. Optional. A panel title. This will be attached to the title property.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

SVG Interface

class epyk.interfaces.graphs.CompChartsSvg.**SVG**(*ui*)

arrow_left(*x1: float = 0*, *y1: Optional[float] = None*, *x2: Optional[float] = None*, *y2: Optional[float] = None*, *size: int = 10*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.charts.svg.arrow_left()
```

Parameters

- **x1** –
- **y1** –
- **x2** –
- **y2** –
- **size** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component

- **profile** – Optional. A flag to set the component performance storage

arrow_right(*x1: float = 0*, *y1: Optional[float] = None*, *x2: Optional[float] = None*, *y2: Optional[float] = None*, *size: int = 10*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.charts.svg.arrow_right(y1=40)
```

Parameters

- **x1** –
- **y1** –
- **x2** –
- **y2** –
- **size** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

axes(*size: int = 10*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
svg = page.ui.charts.svg.axes()
m = svg.defs().marker("circle", "0 0 10 10", 5, 5)
m.circle(5, 5, 5, 'red')
m.markerWidth(10).markerHeight(10)
p = svg.path(0, 0, from_origin=True).line_to(50, 100).horizontal_line_to(300).
↪line_to(400, 200)
p.markers(m.url)
```

Parameters

- **size** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

circle(*x: float*, *y: float*, *r: float*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Entry point to the basic line definition in a SVG HTML Tag.

Tags
Categories

Usage:

```
page.ui.charts.svg.line(10, 30, 40, 69)
```

Related Pages:

https://www.w3schools.com/graphics/svg_line.asp

Parameters

- **x** – The x attribute defines the start of the line on the x-axis
- **y** – The y attribute defines the start of the line on the y-axis
- **r** – The r attribute defines the radius
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

ellipse(*cx: float*, *cy: float*, *rx: float*, *ry: float*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

SVG Ellipse - <ellipse>.

Tags
Categories

Usage:

```
page.ui.charts.svg.ellipse(100, 100, 40, 69)
```

Related Pages:

https://www.w3schools.com/graphics/svg_ellipse.asp

Parameters

- **cx** – The cx attribute defines the x coordinate of the center of the ellipse
- **cy** – The cy attribute defines the y coordinate of the center of the ellipse
- **rx** – The rx attribute defines the horizontal radius

- **ry** – The ry attribute defines the vertical radius
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

heart(*w: float*, *h: float*, *fill: str = 'none'*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
c = page.ui.charts.svg.heart(w=50, h=100, fill="pink")
c[0].transform("transform", "rotate", "0 100 100", "360 100 10")
```

Parameters

- **w** –
- **h** –
- **fill** –
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

line(*x1: float = 0*, *y1: Optional[float] = None*, *x2: Optional[float] = None*, *y2: Optional[float] = None*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Entry point to the basic line definition in a SVG HTML Tag.

Tags
Categories

Usage:

```
page.ui.charts.svg.line(10, 30, 40, 69)
```

Related Pages:

https://www.w3schools.com/graphics/svg_line.asp

Parameters

- **x1** – The x1 attribute defines the start of the line on the x-axis
- **y1** – Optional. The y1 attribute defines the start of the line on the y-axis
- **x2** – Optional. The x2 attribute defines the end of the line on the x-axis
- **y2** – Optional. The y2 attribute defines the end of the line on the y-axis

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

new(*width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*)

SVG stands for Scalable Vector Graphics.

SVG defines vector-based graphics in XML format.

Tags
Categories

Usage:

```
svg = page.ui.charts.svg.new(width=200)
svg.add_text("I love SVG!", x=0, y=15, options={"fill": 'red'})
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/SVG https://www.w3schools.com/graphics/svg_intro.asp

Parameters

- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

path(*x: float = 0*, *y: float = 0*, *fill: Optional[str] = 'none'*, *origin: bool = False*, *bespoke_path=None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

Related Pages:

Parameters

- **x** –
- **y** –
- **fill** –
- **origin** –
- **bespoke_path** –
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.

polygone(*points: List[tuple]*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.charts.svg.polygone([(15, 80), (29, 50), (43, 60), (57, 30), (71, 40),␣
↪(85, 15)])
```

Related Pages:

https://www.w3schools.com/graphics/tryit.asp?filename=trysvg_polygon

Parameters

- **points** – The points attribute defines the list of points (pairs of coordinates) required to draw the polyline
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

polyline(*points: List[tuple]*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
page.ui.charts.svg.polyline([(15, 80), (29, 50), (43, 60), (57, 30), (71, 40),␣
↪(85, 15)])
```

Related Pages:

https://www.w3schools.com/graphics/svg_polyline.asp

Parameters

- **points** – The points attribute defines the list of points (pairs of coordinates) required to draw the polyline
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

rectangle(*x: float*, *y: float*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *fill: Optional[str] = None*, *rx: float = 0*, *ry: float = 0*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param x:
:param y:
:param width: Optional. A tuple with the integer for the component width and
↪its unit.
:param height: Optional. A tuple with the integer for the component height and
↪its unit.
:param fill:
:param rx:
:param ry:
:param options: Optional. Specific Python options available for this component.
:param profile: Optional. A flag to set the component performance storage.
```

star(*fill: str = 'none'*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

Related Pages:

https://codepen.io/susanwinters/pen/WxbRJK

Parameters

- **fill** –
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

triangle(*point1: tuple*, *point2: Optional[tuple] = None*, *point3: Optional[tuple] = None*, *fill: str = 'None'*, *width: Optional[Union[tuple, int, str]] = (500, 'px')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
rptObj.ui.charts.svg.triangle((50, 100))
```

Related Pages:

https://www.w3schools.com/graphics/svg_polyline.asp

Parameters

- **point1** –
- **point2** – Optional.
- **point3** – Optional.
- **fill** – Optional.
- **width** – Optional. A tuple with the integer for the component width and its unit

- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

VegaEmbedded Interface

class epyk.interfaces.graphs.CompChartsVega.**VegaEmbedded**(*ui*)

plot(*record=None*, *y=None*, *x=None*, *kind='line'*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
c = page.ui.charts.vega.plot(y=["Value"], x="Year", kind="point", height=(500,
↪"px"))
text = page.ui.input("Italy")
slider = page.ui.sliders.range(minimum=1990, maximum=2020)
page.ui.button("Click").click([
page.js.d3.csv(data_urls.DEMO_COUNTRY).filterCol("Country Name", text.dom.
↪content).cast(["Year", "Value"]).
   filterCol("Year", slider.dom.min_select, ">").filterCol("Year", slider.dom.
↪max_select, "<").get(
     [#"data = data.slice(1)",
    c.build(pk.events.data)])
])
```

Parameters

- **record** – List. Optional. The list of dictionaries with the input data.
- **y** – List | String. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **kind** – String. Optional. The chart type.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. The width of the component in the page, default (100, '%').
- **height** – Tuple. Optional. The height of the component in the page, default (330, "px").
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

Vis Interface

class epyk.interfaces.graphs.CompChartsVis.**Vis**(*ui*)

bar3d(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

line3d(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

scatter3d(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

surface(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

Vis2D Interface

class epyk.interfaces.graphs.CompChartsVis.**Vis2D**(*ui*)

bar(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

```
http://www.chartjs.org/
```

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

line(*record=None*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Graph2d is an interactive visualization chart to draw data in a 2D graph. You can freely move and zoom in the graph by dragging and scrolling in the window.

Graph2d uses HTML DOM and SVG for rendering. This allows for flexible customization using css styling.

Tags
Categories

Usage:

Related Pages:

```
http://www.chartjs.org/
https://visjs.github.io/vis-timeline/examples/graph2d/16_bothAxisTitles.html
```

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.

- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

network(*profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

plot(*record=None*, *y=None*, *x=None*, *kind='line'*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List. Optional. The list of dictionaries with the input data.
:param y: List | String. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param kind: String. Optional. The chart type.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. The width of the component in the page, default␣
↪(100, '%').
:param height: Tuple. Optional. The height of the component in the page,␣
↪default (330, "px").
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

scatter(*record*, *y_columns=None*, *x_axis=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

```
http://www.chartjs.org/
```

Parameters

- **record** – List of dict. The Python record.
- **y_columns** – List. Optional. The columns corresponding to keys in the dictionaries in the record.
- **x_axis** – String. Optional. The column corresponding to a key in the dictionaries in the record.
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.
- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

timeline(*record=None*, *start=None*, *content=None*, *end=None*, *type=None*, *group=None*, *profile=None*, *width=(100, '%')*, *height=(330, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

Related Pages:

```
http://www.chartjs.org/
```

Parameters

- **record** –
- **start** –
- **content** –
- **end** –
- **type** –
- **group** –
- **profile** – Boolean | Dictionary. Optional. A flag to set the component performance storage.
- **width** – Tuple. Optional. A tuple with the integer for the component width and its unit.

- **height** – Tuple. Optional. A tuple with the integer for the component height and its unit.
- **options** – Dictionary. Optional. Specific Python options available for this component.
- **html_code** – String. Optional. An identifier for this component (on both Python and Javascript side).

Vis3D Interface

class epyk.interfaces.graphs.CompChartsVis.**Vis3D**(*ui*)

bar(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

line(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
```

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```
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

scatter(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: The column corresponding to a key in the dictionaries in the␣
↪record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

surface(*record*, *y_columns=None*, *x_axis=None*, *z_axis=None*, *profile=None*, *width=(100, '%')*, *height=(400, 'px')*, *options=None*, *html_code=None*)

Tags
Categories

Usage:

```
:param record: List of dict. The Python record.
:param y_columns: List. Optional. The columns corresponding to keys in the␣
↪dictionaries in the record.
:param x_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param z_axis: String. Optional. The column corresponding to a key in the␣
↪dictionaries in the record.
:param profile: Boolean | Dictionary. Optional. A flag to set the component␣
↪performance storage.
:param width: Tuple. Optional. A tuple with the integer for the component width␣
↪and its unit.
:param height: Tuple. Optional. A tuple with the integer for the component␣
```

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```
↪height and its unit.
:param options: Dictionary. Optional. Specific Python options available for␣
↪this component.
:param html_code: String. Optional. An identifier for this component (on both␣
↪Python and Javascript side).
```

tables Interface

AgGrid Interface

class epyk.interfaces.tables.CompAgGrid.**AgGrid**(*ui*)

table(*records: Optional[list] = None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (300, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Table

Create a generic Angular Grid table.

Tags
Categories

Usage:

```
import epyk as pk
from epyk.mocks import urls as data_urls

page = pk.Page()
data = page.py.requests.csv(data_urls.AIRPORT_TRAFFIC)
table = page.ui.tables.aggrids.table(data)
table.options.paginationPageSize = 10
table.options.rowSelection = "single"

table = page.ui.tables.aggrids.table(rows=["athlete", "country", "sport", 'year
↪'])
table.attr["class"].add("ag-theme-alpine")
c = table.get_column("athlete")
c.headerCheckboxSelection = True
c.headerCheckboxSelectionCurrentPageOnly = True
c.checkboxSelection = True
c.showDisabledCheckboxes = True
table.options.rowSelection = 'multiple'
table.options.suppressRowClickSelection = True
table.onReady([
  page.js.fetch("https://www.ag-grid.com/example-assets/olympic-winners.json").
↪json().process(table.js.setRowData)
])
```

Parameters

- **records** – Optional. The list of dictionaries with the input data.
- **cols** – Optional. The list of key from the record to be used as columns in the table.

- **rows** – Optional. The list of key from the record to be used as rows in the table.
- **width** – Optional. A tuple with the integer for the component width and its unit.
- **height** – Optional. A tuple with the integer for the component height and its unit.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Datatables Interface

class epyk.interfaces.tables.CompDatatable.**Datatables**(*ui*)

table(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Create a generic DataTable table.

Tags
Categories

Usage:

```
dtt = page.ui.tables.datatables.table(cols=["test"])
page.ui.button("Update").click([dt.build([["row %s" % i] for i in range(n)])])
```

Parameters

- **records** – Optional. The list of dictionaries with the input data.
- **cols** – Optional. The list of key from the record to be used as columns in the table.
- **rows** – Optional. The list of key from the record to be used as rows in the table.
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Pivottable Interface

class epyk.interfaces.tables.CompPivot.**Pivottable**(*ui*)

c3(*records=None*, *rows: Optional[list] = None*, *cols: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Create an HTML Pivot table.

Tags
Categories

Usage:

Related Pages:

https://pivottable.js.org/examples/ https://react-pivottable.js.org/ https://jsfiddle.net/nicolaskruchten/w86bgq9o/

Parameters

- **records** –
- **rows** –
- **cols** –
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. Display a tooltip info component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

d3(*records=None*, *rows: Optional[list] = None*, *cols: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Create a HTML Pivot table.

Tags
Categories

Usage:

Related Pages:

https://pivottable.js.org/examples/ https://react-pivottable.js.org/ https://jsfiddle.net/nicolaskruchten/w86bgq9o/

Parameters

- **records** –
- **rows** –

- **cols** –
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. Display a tooltip info component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

heatmap(*records: Optional[list] = None*, *rows: Optional[list] = None*, *cols: Optional[list] = None*, *values=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Create an HTML Pivot table.

Tags
Categories

Usage:

Related Pages:

https://pivottable.js.org/examples/ https://react-pivottable.js.org/ https://jsfiddle.net/nicolaskruchten/w86bgq9o/

Parameters

- **records** –
- **rows** –
- **cols** –
- **values** –
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. Display a tooltip info component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

pivot(*records: Optional[list] = None*, *rows: Optional[list] = None*, *cols: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Create an HTML Pivot table.

Tags
Categories

Usage:

Related Pages:

https://pivottable.js.org/examples/ https://react-pivottable.js.org/ https://jsfiddle.net/nicolaskruchten/w86bgq9o/

Parameters

- **records** –
- **rows** –
- **cols** –
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **helper** – Optional. Display a tooltip info component.
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

plotly(*records=None*, *rows: Optional[list] = None*, *cols: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Create an HTML Pivot table.

Tags
Categories

Usage:

Related Pages:

https://pivottable.js.org/examples/ https://react-pivottable.js.org/ https://jsfiddle.net/nicolaskruchten/w86bgq9o/

Parameters

- **records** –
- **rows** –
- **cols** –
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. Display a tooltip info component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

sub_total(*records: Optional[list] = None*, *rows: Optional[list] = None*, *cols: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Create an HTML Pivot table.

Tags
Categories

Usage:

Related Pages:

https://pivottable.js.org/examples/ https://react-pivottable.js.org/ https://jsfiddle.net/nicolaskruchten/w86bgq9o/

Parameters

- **records** –
- **rows** –
- **cols** –
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. Display a tooltip info component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

ui(*records: Optional[list] = None*, *rows: Optional[list] = None*, *cols: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *helper: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = False*)

Create an HTML Pivot table.

Tags
Categories

Usage:

Related Pages:

https://pivottable.js.org/examples/ https://react-pivottable.js.org/ https://jsfiddle.net/nicolaskruchten/w86bgq9o/

Parameters

- **records** –
- **rows** –
- **cols** –
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **helper** – Optional. Display a tooltip info component
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

D3 Interface

class epyk.interfaces.tables.CompTableD3.**D3**(*ui*)

table(*records: Optional[list] = None*, *header: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param records: Optional. The list of dictionaries with the input data
:param header: Optional.
:param width: Optional. The width of the component in the page, default (100, '%
↪')
:param height: Optional. The height of the component in the page, default (330,
↪"px")
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

Google Interface

class epyk.interfaces.tables.CompTableGoogle.**Google**(*ui*)

table(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param records: Optional. The list of dictionaries with the input data
:param cols: Optional. The list of key from the record to be used as columns in␣
↪the table
:param rows: Optional. The list of key from the record to be used as rows in␣
↪the table
:param width: Optional. The width of the component in the page, default (100, '%
↪')
:param height: Optional. The height of the component in the page, default (330,
```

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(continued from previous page)

```
↪"px")
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

Tables Interface

class epyk.interfaces.tables.CompTables.**Tables**(*ui*)

property aggrids: *AgGrid*

AG-Grid is the industry standard for JavaScript Enterprise Applications. Developers using ag-Grid are building applications that would not be possible if ag-Grid did not exist.

Tags
Categories

Usage:

```
table = page.ui.tables.aggrids.table(rows=["athlete", "country", "sport"])
table.onReady([
  page.js.fetch("https://www.ag-grid.com/example-assets/olympic-winners.json").
↪json().process(table.js.setRowData)
])
table.attr["class"].add("ag-theme-alpine")
```

Related Pages:

https://www.ag-grid.com/javascript-grid/

basic(*records: Optional[List[dict]] = None*, *cols=None*, *rows=None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
simple_table = page.ui.tables.basic(df.to_dict("records"), cols=["COL1"], rows=[
↪"COL2"])
simple_table.add({"COL1": "Value"})
```

Parameters

- **records** – Optional. The list of dictionaries with the input data
- **cols** – Optional. The list of key from the record to be used as columns in the table
- **rows** – Optional. The list of key from the record to be used as rows in the table
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

property d3: *D3*

Interface to the different Tabulator configurations.

Tags
Categories

Related Pages:

https://github.com/d3/d3/wiki/Gallery

property datatables: *Datatables*

Interface to the different Datatable configurations.

Tags
Categories

Related Pages:

https://datatables.net/

property google: *Google*

Interface to the Google Table interface.

In order to use it, the Google products need to be specially enabled.

grid(*records*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param records: Optional. The list of dictionaries with the input data
:param cols: Optional. The list of key from the record to be used as columns in␣
↪the table
:param rows: Optional. The list of key from the record to be used as rows in␣
↪the table
:param width: Optional. The width of the component in the page, default (100, '%
↪')
:param height: Optional. The height of the component in the page, default (330,
↪"px")
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

menu(*table: Optional[Html] = None*, *height: Optional[Union[tuple, int, str]] = (18, 'px')*, *options: Optional[Union[bool, dict]] = None*, *update_funcs: Optional[list] = None*, *post: Optional[Union[list, str]] = None*, *profile: Optional[Union[bool, dict]] = None*, *columns: Optional[dict] = None*, *title: Optional[Union[str, dict]] = None*)

Add a standard menu on the table to trigger standard operation (add, empty, copy, download).

Tags
Categories

Usage:

```
hierarchy = page.ui.tables.tabulators.hierarchy(html_code="hierarchy")
menu = page.ui.tables.menu(hierarchy)
```

Parameters

- **table** – Optional. The HTML table component
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **update_funcs** – Optional. JavaScript functions to update the table component
- **post** – Optional. The event used to update the table
- **profile** – Optional. A flag to set the component performance storage
- **columns** – Optional.
- **title** – Optional. The title value or component

property pivots: *Pivottable*

Interface to the different Pivot Table configurations.

Tags
Categories

Related Pages:

https://pivottable.js.org/examples/

property plotlys: *Plotly*

Interface to the different Tabulator configurations.

Tags
Categories

Related Pages:

http://tabulator.info/

property tabulators: *Tabulators*

Interface to the different Tabulator configurations.

Tags
Categories

Usage:

Related Pages:

http://tabulator.info/

Plotly Interface

class epyk.interfaces.tables.CompTablesPlotly.**Plotly**(*ui*)

table(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *header: Optional[list] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*)

Create a Plotly table.

Tags
Categories

Usage:

Related Pages:

https://plot.ly/javascript/table-subplots/

Parameters

- **records** – Optional. The list of dictionaries with the input data
- **cols** – Optional. The list of key from the record to be used as columns in the table
- **rows** – Optional. The list of key from the record to be used as rows in the table
- **header** – Optional.
- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Tabulators Interface

class epyk.interfaces.tables.CompTabulator.**Tabulators**(*ui*)

figures(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Union[int, tuple, str] = (100, '%')*, *height: Union[int, tuple, str] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

Related Pages:

https://www.npmjs.com/package/tabulator-extensions

Parameters

- **records** – Optional. The list of dictionaries with the input data
- **cols** – Optional. The list of key from the record to be used as columns in the table

- **rows** – Optional. The list of key from the record to be used as rows in the table
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

hierarchy(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Union[int, tuple, str] = (100, '%')*, *height: Union[int, tuple, str] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
:param records: Optional. The list of dictionaries with the input data
:param cols: Optional. The list of key from the record to be used as columns in␣
↪the table
:param rows: Optional. The list of key from the record to be used as rows in␣
↪the table
:param width: Optional. A tuple with the integer for the component width and␣
↪its unit
:param height: Optional. A tuple with the integer for the component height and␣
↪its unit
:param html_code: Optional. An identifier for this component (on both Python␣
↪and Javascript side)
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

intensity(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Union[int, tuple, str] = (100, '%')*, *height: Union[int, tuple, str] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

Related Pages:

https://www.npmjs.com/package/tabulator-extensions

Parameters

- **records** – Optional. The list of dictionaries with the input data
- **cols** – Optional. The list of key from the record to be used as columns in the table
- **rows** – Optional. The list of key from the record to be used as rows in the table
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit

- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

multi(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Union[int, tuple, str] = (100, '%')*, *height: Union[int, tuple, str] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Generic Tabulator configuration to get the package plus all the add-ons for Formatters and Editors. In the basic Tabulator entry point only the ones used on the Python will be added to the JavaScript page.

This configuration will load all the external JavaScript features to allow the full customisation.

Tags
Categories

Usage:

Related Pages:

https://www.npmjs.com/package/tabulator-extensions

Parameters

- **records** – Optional. The list of dictionaries with the input data
- **cols** – Optional. The list of key from the record to be used as columns in the table
- **rows** – Optional. The list of key from the record to be used as rows in the table
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

table(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Union[int, tuple, str] = (100, '%')*, *height: Union[int, tuple, str] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

```
data = [{"A": 1, "B": 2}]
table = page.ui.tables.tabulators.table(data, cols=["A"], rows=["B"])
table.on("dblclick", page.js.alert("test"), profile=False)
```

Parameters

- **records** – Optional. The list of dictionaries with the input data
- **cols** – Optional. The list of key from the record to be used as columns in the table
- **rows** – Optional. The list of key from the record to be used as rows in the table

- **width** – Optional. The width of the component in the page, default (100, '%')
- **height** – Optional. The height of the component in the page, default (330, "px")
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

trafficlights(*records=None*, *cols: Optional[list] = None*, *rows: Optional[list] = None*, *width: Union[int, tuple, str] = (100, '%')*, *height: Union[int, tuple, str] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = None*)

Tags
Categories

Usage:

Related Pages:

https://www.npmjs.com/package/tabulator-extensions

Parameters

- **records** – Optional. The list of dictionaries with the input data
- **cols** – Optional. The list of key from the record to be used as columns in the table
- **rows** – Optional. The list of key from the record to be used as rows in the table
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

There are links to existing Web Framework to rely on their components:

5.8.2.1.3 Full list of 81 Interfaces:

class epyk.interfaces.Interface.**Components**(*page: PageModel*)

Main interface for all components.

Usage:

```
# To change the default style for components.
page.ui.components_skin = {
  "buttons.absolute": {"clear": {"css": True, "cls": True}, "css": {"color": "red"},
↪ 'cls': ["cssbuttonbasic"]},
  "buttons.check": {"css": {"color": "green"}},
}
```

Parameters
page – The web page object.

property animations: Animations

Bespoke CSS and / or components with effects. This could be used to animate the cursor or add a loading events.

More details on the `Animations property` page

asterix(*tooltip: str*, *family: Optional[str] = None*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *color: Optional[str] = None*, *align: str = 'left'*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Icon

Usage:

```
:param tooltip:
:param family:
:param width: Optional. A tuple with the integer for the component width and its unit
:param height: Optional. A tuple with the integer for the component height and its unit
:param html_code: Optional. An identifier for this component (on both Python and Javascript side)
:param color:
:param align:
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

property banners: *Banners*

Group all the available banners.

More details on the *Banners property* page

Usage:

```
top = page.ui.banners.top("text")
top.style.css.font_size = '40px'
```

property bars: *NavBars*

Group all the UI components dedicated to produce Navigation bar components such as navigation bar, footer, banner...

More details on the *Bars property* page

Usage:

```
page.ui
```

bespoke(*html_cls*, **args*, ***kwargs*)

Hook to allow the creation of bespoke component using specific configurations. Components can be self-contained in a module and rely on external packages.

Tip: Look at the Import.extend function in order to add external Js and CSS modules to your environment.

Usage:

```
:param html_cls: Class. The bespoke HTML component
:param args: The python attributes used in the HTML component constructor
:param kwargs: The python attributes used in the HTML component constructor
```

breadcrumb(*values=None*, *selected: Optional[int] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = (30, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Breadcrumb

Add Breadcrumb information to the page.

Usage:

```
bc = page.ui.breadcrumb([
  {"text": 'part 1', 'url': 'part1'},
  {"text": 'part 2', 'url': 'part2'},
  {"text": 'part 3', 'url': 'part3'},
])

# This will change the link of part 2 and part 3 and add some extra information in the link
bc.onReady([
  bc[1].dom.setAttribute("href", http.get("type").toString().prepend("part2?")),
  bc[2].dom.setAttribute("href", http.get("type").toString().prepend("http://www.w3schools.com/").add("/howto_css_breadcrumbs.asp"))
])
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/breadcrumb.py

Parameters

- **values** – Optional. The breadcrumb record definition
- **selected** – Optional. The selected item index
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)
- **profile** – Optional. A flag to set the component performance storage

property buttons: *Buttons*

Group all the UI components dedicated to produce button or checkbox.

More details on the *Buttons property* page

Usage:

```
page.ui.buttons.absolute("Click Me")
page.ui.buttons.switch({'on': "true", 'off': 'false'})
page.ui.buttons.check(label="Label")
```

property calendars: *Calendar*

Group all the component related to the time and calendar management.

Usage:

```
content = {
  "2020-07-02": {'task1': 50, 'task2': 50},
  "2020-07-03": {'task1': 100},
  "2020-07-21": {'task4': 100},
  "2020-07-22": {'task4': 100}
}
july = page.ui.calendars.days(7, content, align="center", options={"colors": {
↪"task4": 'red'}})
```

captcha(*text: str = 'Submit'*, *width: Optional[Union[tuple, int, str]] = (None, 'px')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → HtmlCaptcha

Usage:

```
page.ui.captcha()
```

Parameters

- **text** – Optional. The button content for the captcha validation
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

property charts: *Graphs*

Group all the UI components dedicated to produce charts.

Different kind of charts framework are available (ChartJs, Plotly, C3, Billboard, NVD3, DC, Vis, Frappe, Vega, Apex or even D3).

Usage:

```
from epyk.mocks import urls
page = pk.Page()
chart = page.ui.charts.chartJs.line(y_columns=["Armenia", "France", "Germany"],␣
↪x_axis="year")
page.body.onLoad([
  page.js.fetch(urls.CO2_DATA).csvtoRecords().get([
    chart.build(page.data.js.record("data").filterGroup("test").pivot("country",
↪ "co2", "year", type="float"))
  ])])
```

property codes: *Code*

Group all the UI Components dedicated to display code fragments.

This will wrap the Javascript module codemirror.

More details on the *Codes property* page

Usage:

```
page.ui.codes.css(".test {color: red}")
```

Related Pages:

https://codemirror.net/doc/manual.html

component(*alias: str*, ***kwargs*)

Load a standalone component inheriting from *Standalone.Component*.

Usage:

```
comp = page.ui.component("test-color")
comp.prepare(text="Test")
```

Parameters

alias – The component selector

contents(*title: str = 'Contents'*, *top: int = 10*, *right: int = 10*, *left: Optional[int] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (None, 'px')*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → ContentsTable

Add a content table to the page.

Usage:

```
menu = page.ui.contents()
menu.add(page.ui.text("Simple text"))
menu.anchor("Test", 3, "#name")
page.ui.button("Button").click([
  menu.build([{"text": 'ok', "level": 0, "anchor": "#test"}])
])

page.body.onReady([
  menu.build([
    {"anchor": '#test', 'level': 1, 'text': 'Ok'}
  ])
])
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/contents_table.py
https://github.com/epykure/epyk-templates/blob/master/locals/components/paragraph.py

Parameters

- **title** – Optional. The title for the content table
- **top** – Optional. The top property affects the vertical position of a positioned element
- **right** – Optional. The right property affects the horizontal position of a positioned element
- **left** – Optional. The left property affects the horizontal position of a positioned element
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side)

- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

css(*css_attrs: dict*)

Change the CSS Style of the main container in the page.

Usage:

```
page.ui.css({"color": "blue"})
```

Parameters

css_attrs – The CSS attributes to be applied.

property delimiters: *Delimiter*

Shortcut property to the various delimiters styles.

Related Pages:

https://codepen.io/ibrahimjabbari/pen/ozinB

Usage:

property drawers: *Drawers*

Group all the UI drawers components.

Usage:

extension(*package_name: str*, *alias: Optional[str] = None*)

Add an extension base on it is name.

Usage:

```
:param package_name: The package name.
:param alias: Optional. The alias for the link in report.ui.
```

property fields: *Fields*

Group all the UI components dedicated to produce input items.

Those components are editable items which need to be updated by the user of the dashboard. This category will take into account TextArea, input text...

Usage:

form(*components: Optional[List[Html]] = None*, *helper: Optional[str] = None*, *method: str = 'POST'*, *action: str = '#'*, *label: str = 'Submit'*) → Form

Creates a new empty form.

Usage:

```
f = page.ui.form()
```

Parameters

- **components** – Optional. The HTML components to be added to the HTML form
- **helper** – Optional. The value to be displayed to the helper icon
- **method** – Optional. The method used to transfer data
- **action** – Optional. The end point for submitting data

- **label** – Optional. The text on the submit button

property forms: *Forms*

Group all the Forms components dedicated to drop data.

Related Pages:

https://www.w3schools.com/html/html_forms.asp

Usage:

property geo: *Geo*

Group all the UI components dedicated to produce Trees or selection items.

Usage:

```
l = page.ui.geo.mapbox.globe()
l.load([...])
l.options.style = 'mapbox://styles/mapbox/streets-v11'

marker = l.js.marker(-0.11, 51.508)
marker2 = l.js.marker(12.65147, 55.608166, options={"color": 'black', "rotation
↪": 45})
page.body.onReady([marker, marker2])
```

property icons: *Icons*

Group all the UI components dedicated to produce icon items.

This category of component will rely on the font-awesome library for the final display.

Usage:

property images: *Images*

Group all the UI components dedicated to produce image or collection of images.

Usage:

property inputs: *Inputs*

Group all the UI components dedicated to produce input items.

Those components are editable items which need to be updated by the user of the dashboard. This category will take into account TextArea, input text...

Usage:

json(*data: Optional[dict] = None*, *width: Optional[Union[tuple, int, str]] = (None, '%')*, *height: Optional[Union[tuple, int, str]] = (100, '%')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → HtmlJson

HTML component to display a Json.

Usage::

from epyk.mocks import urls

page = pk.Page() records = pd.DataFrame(page.py.requests.csv(urls.DEMO_COUNTRY)) records = records[records["Year"] == "2010"] # Create a link to download data as a Json file viewer = page.ui.json(records.to_dict()) viewer.options.hoverPreviewEnabled = True viewer.options.hoverPreviewArrayCount = 5

Related Pages:

https://github.com/mohsen1/json-formatter-js

Parameters

- **data** (*dict*) – Optional. The Json object to be display
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

property layouts: *Layouts*

Group all the UI components dedicated to produce component containers.

All the items in this category are dedicated for the structure of the dashboard and they are mainly holder of other components. This will mainly rely on bootstrap for the display of the different objects in the page.

Usage:

property links: *Links*

Group all the UI components dedicated to produce links to another page or website.

More details on the *Links property* page

Usage:

```
page.ui.links.external('data', 'www.google.fr', icon="fas fa-align-center",␣
↪options={"target": "_blank"})
page.ui.layouts.new_line(2)
```

property lists: *Lists*

Group all the UI components dedicated to produce list or selection items.

Simple list, trees or DropDown boxes will be part of this category of items.

Usage:

loading(*text: str = 'Loading'*, *color: Optional[Union[str, bool]] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Loading

Entry point to the loading component.

This component will create a

- label component for the text
- icon component for the loading icon

Usage:

```
:param text: Optional. The text in the component (during the loading)
:param color: Optional. The font color in the component. Default inherit
:param options: Optional. Specific Python options available for this component
:param profile: Optional. A flag to set the component performance storage
```

property media: *Media*

Group all the UI components dedicated to produce media (video and audio) items.

Plain Vanilla HTML5 components.

Usage:

```
cam = page.ui.media.camera()
page.ui.button("start").click([cam.dom.start()])
page.ui.button("play").click([cam.dom.play()])
page.ui.button("Stop").click([cam.dom.stop()])
page.ui.button("record (Start)").click([cam.dom.record()])
page.ui.button("record (Stop)").click([cam.dom.record(False)])
page.ui.button("takepicture").click([cam.dom.takepicture()])
```

Templates:

menu(*component: Union[Html, List[Html]]*, *title: Optional[Union[str, dict]] = None*, *copy: str = 'fas fa-copy'*, *editable: tuple = ('fas fa-user-edit', 'fas fa-user-lock')*, *refresh: str = 'fas fa-redo-alt'*, *visible: tuple = ('fas fa-eye-slash', 'fas fa-eye')*, *post: Optional[dict] = None*, *height: tuple = (18, 'px')*, *save_funcs: Optional[Union[List[Union[str, JsDataModel]], str]] = None*, *update_funcs: Optional[Union[List[Union[str, JsDataModel]], str]] = None*, *menu_items=None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Col

TODO: Improve the editable feature for Markdown.

Usage:

```
p2 = page.ui.paragraph("paragraph", options={"markdown": True})
menu2 = page.ui.texts.menu(p2, save_funcs=[
  page.js.alert(p2.dom.content)
], update_funcs=[
  p2.build("Updated paragraph")
], profile=True)
```

Parameters

- **component** –
- **title** –
- **copy** –
- **editable** –
- **refresh** –
- **visible** –
- **post** –
- **height** –
- **save_funcs** –
- **update_funcs** –
- **menu_items** –
- **options** –
- **profile** –

property menus: *Menus*

Group all the UI menus.

Usage:

property modals: *Modals*

Group all the UI components dedicated to produce modal components.

Usage:

property navigation: *Navigation*

Group all the UI components dedicated to produce navigation components such as navigation bar, footer, banner...

More details on the *Navigation property* page

Usage:

```
nav = page.ui.navigation.nav(height=(30, 'px'), title={"This is an example":
↪"by Epyk"})
for component in ["Menu 1", "Menu 2"]:
  title = nav.add_right(component)
```

property network: *Network*

Group all the UI Components dedicated to display messaging services.

This category will group (chat, RSS streams, forum, bot ...). Those components are interactive and they would require underlying services and databases in order to fully work.

More details on the *Networks property* page

Usage:

```
page = pk.Page()
page.ui.network
```

property numbers: *Numbers*

Group all the UI components dedicated to produce Numbers components.

The items in this category will not be editable and they will only provide nice number renderings.

Usage:

property panels: *Panels*

Group all the UI panels.

Usage:

property pictos: *Pictogram*

Group all the built-in pictogram.

Usage:

property pollers: *Poller*

Group all the UI with polling feature.

More details on the *Animations property* page

Usage:

```
page.ui.select()
poller = page.ui.pollers.live(2, [
  page.js.console.log(page.js.objects.date())
], components=[page.ui.text("Updated feeds")])
```

postit(*components: Optional[List[Html]] = None*, *anchor: Optional[Html] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Div

TODO: add click event to keep the display.

Usage:

```
example = page.ui.title("Example")
text = page.ui.text("This is a text")
example.style.css.color = 'red'
data_rest = page.py.requests.csv(data_urls.PLOTLY_APPLE_PRICES)
ts = page.ui.charts.chartJs.timeseries(data_rest, y_columns=['AAPL.Open'], x_
↪axis="Date", height=200)

# Create a postit anchor to display the popup when the mouse is on it.
p = page.ui.postit([example, text, ts])
p.anchor.style.css.margin_left = '50px'
p.popup.style.css.height = "250px"
p.popup.style.css.width = "300px"
```

Templates:

https://github.com/epykure/epyk-templates/blob/master/locals/components/postit.py

Parameters

- **components** – Optional.
- **anchor** – Optional.
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

print(*text: Optional[str] = None*, *end: str = '\n'*, *html_code: Optional[str] = None*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → Text

Mimic the print function available in Python. This will create a div container with the content as a string.

This function can be also used to display Python function. Inspect module will be used in this case to get the source code.

Usage:

```
import pandas
page.ui.print('pandas: {}'.format(pandas.__version__))
```

Parameters

- **text** – Optional. The content to be displayed.
- **end** – Optional. The end of line.
- **html_code** – Optional. An identifier for this component (on both Python and Javascript side).
- **options** – Optional. Specific Python options available for this component.
- **profile** – Optional. A flag to set the component performance storage.

Returns

:py:class:`A HTML text component <epyk.core.html.HtmlText.Text>'

property pyk: Bespoke

Bespoke catalog of components.

Usages:

```
text = page.ui.pyk.progress.circle()
text.style.css.color = "red"
```

qrcode(*data=None*, *width: Optional[Union[tuple, int, str]] = (128, 'px')*, *height: Optional[Union[tuple, int, str]] = (128, 'px')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → HtmlQRCode

HTML component to display a QR Code from a string.

Usage:

Related Pages:

https://davidshimjs.github.io/qrcodejs/

TODO: Add options

Parameters

- **data** – Optional. The value to be converted to QR Code
- **width** – Optional. A tuple with the integer for the component width and its unit
- **height** – Optional. A tuple with the integer for the component height and its unit
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

property rich: *Rich*

Group all the UI components dedicated to produce rich HTML Components.

This category will take into account very specific and bespoke components.

Usage:

```
page.ui.fields.now(label="timestamp", color="red", helper="This is the report␣
↪timestamp")
page.ui.rich.delta({'number': 100, 'prevNumber': 60, 'thresold1': 100,
↪'thresold2': 50}, helper="test")
page.ui.rich.info("text")
```

property selectors

Get the list of bespoke selector aliases loaded as components

property sliders: *Sliders*

Group all the UI components dedicated to produce slider items.

Those components are interactive and can be used to filter the data on other items in the dashboard. Those components are mainly relying on Jquery and JqueryUi.

More details on the *Sliders property* page

Usage:

```
slider = page.ui.slider(5)
slider.options.step = 0.01
slider.options.slide(precision=2)
```

slideshow(*components: Optional[List[Html]] = None*, *width: Optional[Union[tuple, int, str]] = (100, '%')*, *height: Optional[Union[tuple, int, str]] = ('auto', '')*, *options: Optional[Union[bool, dict]] = None*, *profile: Optional[Union[bool, dict]] = None*) → SlideShow

SlideShow component for pictures from the tiny-slider library. More details regarding this library here: https://github.com/ganlanyuan/tiny-slider.

Usage:

```
ss = page.ui.slideshow([page.ui.text("Great results %s" % i) for i in␣
↪range(20)])

ss.add_index_changed([
  page.js.console.log("ok"),
  page.js.console.log(ss.dom.info.indexCached),
  page.js.console.log(ss.dom.info.index),
])
```

Related Pages:

https://github.com/ganlanyuan/tiny-slider http://ganlanyuan.github.io/tiny-slider/demo/

Parameters

- **components** – Optional. With the different components
- **width** – Optional. The component width in pixel or percentage
- **height** – Optional. The component height in pixel
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

property steppers: Steppers

Group all the UI steppers components.

Usage:

```
s = page.ui.steppers.arrow()
s.options.column_title = "name"
btn = page.ui.button("Load")
btn.click(
  s.build([
        {"value": 'test 1', "status": 'success', 'name': "1", 'title': 'test',
↪"label": 'test'},
        {"value": 'test 2', "status": 'pending', "tooltip": "processing"},
        {"value": 'test 3'},
        {"value": 'test 4'}])
)
```

property steps: *Steppers*

Group all the UI steps components.

Usage:

property tables: *Tables*

Group all the UI components dedicated to produce tables or pivot tables.

Different kind of tables are available in the framework (Tabulator, DataTable, PivotTable or even a bespoke implementation).

Usage:

property tags: *Tags*

Group all the other tags available in HTML.

Those tags can be considered as normal HTML component, which means Js and CSS features are also available.

Usage:

property texts: *Texts*

Group all the UI components dedicated to produce text components.

The items in this category will not be editable and they will only provide nice text structure like paragraph, formatted text...

Usage:

property timelines: *Timelines*

Usage:

property titles: *Titles*

Group all the UI components dedicated to produce titles.

More details on the *Titles property* page

Usage:

```
page.ui.titles.head("test")
```

property trees: *Trees*

Group all the UI components dedicated to produce Trees or selection items.

Usage:

property vignets: *Vignets*

Group all the UI components dedicated to produce rich HTML Components.

This category will take into account very specific and bespoke components.

Usage:

```
page.ui.vignets.number(500, "Test")
page.ui.vignets.number(500, "Test 2 ", options={"url": "http://www.google.fr"})
page.ui.vignets.block({
  "text": 'This is a brand new python framework', "title": 'New Python Web␣
↪Framework',
  "button": {"text": 'Get Started', 'url': "/getStarted"}, 'color': 'green'})
```

5.8.2.2 Javascript Interface

The Page object will allow you to write plain JavaScript from the js property. It will then make available most of the common features defined in the JavaScript world.

No need to move to JavaScript, to edit some extra configuration files or even to write wrappers in Strings, this interface will provide you auto completion and links to the underlying web site to learn more about those concepts.

Each component will have a JavaScript entry point which will either redirect to this or will define a specific one in line with the external package definition. More details one the component design a link.

5.8.2.2.1 Console

class epyk.core.js.Js.**JsConsole**(*page: Optional[PageModel] = None*)

This is a wrapper to the Console.

Related Pages:

https://medium.freecodecamp.org/how-to-get-the-most-out-of-the-javascript-console-b57ca9db3e6d

property clear

The console.clear() method clears the console.

Usage:

```
page.js.console.clear
```

Related Pages:

https://www.w3schools.com/jsref/met_console_clear.asp

Returns

The Javascript String used to clear the console (F12 in standard browsers).

property debugger

Trigger a Javascript debugger from this point. The Javascript will be stopped. It will be possible to check the process step by step in the browser using F12.

Usage:

```
page.js.console.debugger
```

Related Pages:

https://www.w3schools.com/jsref/jsref_debugger.asp

Returns

The Javascript Keyword to trigger the browser debugger.

error(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The console.error() method writes an error message to the console.

Related Pages:

https://www.w3schools.com/jsref/met_console_error.asp

Parameters

- **data** – The Javascript fragment
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript String used to clear the console (F12 in standard browsers)

info(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The console.info() method writes a message to the console.

Related Pages:

https://www.w3schools.com/jsref/met_console_info.asp

Parameters

- **data** – The Javascript fragment
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript String used to clear the console (F12 in standard browsers)

log(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*, *skip_data_convert: bool = False*)

The console.log() method writes a message to the console.

Usage:

```
page.js.console.log("Test")
```

Related Pages:

https://www.w3schools.com/jsref/met_console_log.asp

Parameters

- **data** – The Javascript fragment.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.
- **skip_data_convert** – Optional. Flag to specify to the framework if a Json conversion is needed.

Returns
The Javascript String used to clear the console (F12 in standard browsers)

perf(*js_code: str*, *label: Optional[str] = None*)

Shortcut function to display performances from a variable. The variable must be global. Namely the name should start with window.

Parameters

- **js_code** – The variable var name use to compute the performance.
- **label** – Optional. The description.

service(*msg: str*, *headers: Optional[dict] = None*)

Send logs to the backend.

Parameters

- **msg** – The log message to be sent to the backend

- **headers** – the service headers

table(*data: Union[str, JsDataModel]*, *js_header: Optional[list] = None*) → JsFunction

The console.table() method writes a table in the console view.

Related Pages:

https://www.w3schools.com/jsref/met_console_table.asp

Parameters

- **data** – The data to fill the table with
- **js_header** – Optional. An array containing the names of the columns to be included in the table

Returns

The Javascript String used to clear the console (F12 in standard browsers).

time(*html_code: Union[str, JsDataModel]*) → JsNumber

The console.time() method starts a timer in the console view.

Related Pages:

https://www.w3schools.com/jsref/met_console_time.asp

Parameters

html_code – Use the label parameter to give the timer a name

Returns

A Python Javascript Number.

timeEnd(*html_code: Union[str, JsDataModel]*)

The console.timeEnd() method ends a timer, and writes the result in the console view.

Related Pages:

https://www.w3schools.com/jsref/met_console_timeend.asp

Parameters

html_code – The name of the timer to end

Returns

The Javascript String used to clear the console (F12 in standard browsers).

tryCatch(*js_funcs: Union[str, list]*, *js_funcs_errs: Union[str, list] = 'console.warn(err.message)'*, *profile: Optional[Union[bool, dict]] = False*)

Javascript Try Catch Exceptions.

Related Pages:

https://www.w3schools.com/jsref/jsref_obj_error.asp

Parameters

- **js_funcs** – The Javascript functions
- **js_funcs_errs** – The Javascript functions
- **profile** – Optional. A flag to set the component performance storage

Returns
The Javascript String used to clear the console (F12 in standard browsers)

warn(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The console.warn() method writes a warning to the console.

Related Pages:

https://www.w3schools.com/jsref/met_console_warn.asp

Parameters

- **data** – The Javascript fragment
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript String used to clear the console (F12 in standard browsers)

5.8.2.2.2 Window

Wrapper to the Javascript Window module

Allows to save key/value pairs in a web browser. Stores the data with no expiration date The localStorage and sessionStorage properties allow to save key/value pairs in a web browser.

Related Pages:

https://www.w3schools.com/Jsref/prop_win_localstorage.asp

class epyk.core.js.JsWindow.**JsHistory**(*page: PageModel*)

Interface to the Javascript history module.

Related Pages:

```
https://www.w3schools.com/js/js_window_history.asp
```

back()

The back() method loads the previous URL in the history list.

Usage:

```
rptObj.js.window.history.back()
```

Related Pages:

https://www.w3schools.com/jsref/met_his_back.asp

Returns
The Javascript String to be added to the page

cleanState(*keys: List[str]*)

Remove all attributes which are not useful or should not be passed.

Usage:

```
btn = page.ui.button("Clean URL")
btn.click([page.js.window.history.cleanState(["date"])])
```

Parameters
keys – The attributes keys

`deleteState`(*key: JsDataModel*)

Remove a specific attribute from the url

Usage:

```
btn = page.ui.button("Remove from URL")
btn.click([page.js.window.history.deleteState("date")])
```

Parameters
key – The attribute key.

`forward`()

The forward() method loads the next URL in the history list.

Related Pages:

https://www.w3schools.com/jsref/met_his_forward.asp

Returns
The Javascript String to be added to the page.

`go`(*number: Union[JsDataModel, int]*)

The go() method loads a specific URL from the history list.

Related Pages:

https://www.w3schools.com/jsref/met_his_go.asp

Parameters
number (*Union[primitives.JsDataModel, int]*) – The parameter can either be a number which goes to the URL within

the specific position (-1 goes back one page, 1 goes forward one page), or a string.

Returns
The Javascript String to be added to the page

`property length`

The length property returns the number of URLs in the history list of the current browser window.

Usage:

```
rptObj.js.window.history.length
```

Related Pages:

https://www.w3schools.com/jsref/prop_his_length.asp

Returns
A Number, representing the number of entries in the session history

pushState(*state*, *title*, *url*)

Pushes the given data onto the session history stack with the specified title and, if provided, URL.

Note that pushState() never causes a hashchange event to be fired, even if the new URL differs from the old URL only in its hash

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/History_API

Parameters

- **state** – The state object is a JavaScript object which is associated with the new history entry created by pushState()
- **title** – Firefox currently ignores this parameter, although it may use it in the future Passing the empty string here should be safe against future changes to the method. Alternatively, you could pass a short title for the state to which you're moving.
- **url** – The new history entry's URL is given by this parameter. Note that the browser won't attempt to load this URL after a call to pushState(),

Returns

replaceState(*state*, *title*, *url*)

history.replaceState() operates exactly like history.pushState() except that replaceState() modifies the current history entry instead of creating a new one.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/History_API

Parameters

- **state** – The state object is a JavaScript object which is associated with the new history entry created by pushState()
- **title** – Firefox currently ignores this parameter, although it may use it in the future Passing the empty string here should be safe against future changes to the method. Alternatively, you could pass a short title for the state to which you're moving.
- **url** – The new history entry's URL is given by this parameter. Note that the browser won't attempt to load this URL after a call to pushState(),

updateState(*key: str*, *val: str*)

Wrapper function

This function is a simple wrapping function on top of the pushState history method. The purpose of this method is to make easier the update of the url whenever a component in the framework is updated.

Usage:

```
component.js.window.history.updateState(self.htmlCode, self.val)
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/History_API

Parameters

- **key** (*str*) – The key to be added or updated in the current URL.

- **val** (*str*) – The value to be changed to the current URL.

Returns
The Javascript String for the method.

updateStateFromComponent(*component: HtmlModel*)

Add or update the url value for the specific component to keep them in case of refresh.

Usage:

```
dt = page.ui.date(html_code="date")
input = page.ui.input(html_code="input")
dt.select([
  page.js.window.history.updateStateFromComponent(dt),
  page.js.window.history.updateStateFromComponent(input)
```

Parameters
component – The HTML component

class epyk.core.js.JsWindow.**JsLocalStorage**

clear()

The clear() method removes all the Storage Object item for this domain.

The localStorage object stores data with no expiration date. The data will not be deleted when the browser is closed, and will be available the next day, week, or year.

Usage:

```
jsObj.localStorage.clear()
```

Related Pages:

https://www.w3schools.com/jsref/met_storage_clear.asp

Returns
Void

getItem(*key: Union[JsDataModel, str]*)

Syntax for READING data from localStorage:

The localStorage object stores data with no expiration date. The data will not be deleted when the browser is closed, and will be available the next day, week, or year.

Usage:

```
jsObj.localStorage.getItem("lastname")
```

Related Pages:

https://www.w3schools.com/jsref/met_storage_getitem.asp

Parameters
key (*Union[primitives.JsDataModel, str]*) – A String specifying the name of the key you want to get the value of.

Returns
A String, representing the value of the specified key.

key(*i: Union[JsDataModel, int]*)

The key() method returns name of the key with the specified index.

The localStorage object stores data with no expiration date. The data will not be deleted when the browser is closed, and will be available the next day, week, or year.

Usage:

```
jsObj.localStorage.key(0)
```

Related Pages:

https://www.w3schools.com/jsref/met_storage_key.asp

Parameters

i (*Union[primitives.JsDataModel, int]*) – A Number representing the index of the key you want to get the name of.

Returns

A String, representing the name of the specified key

removeItem(*key: Union[JsDataModel, str]*)

The removeItem() method removes the specified Storage Object item.

The localStorage object stores data with no expiration date. The data will not be deleted when the browser is closed, and will be available the next day, week, or year.

Usage:

```
jsObj.localStorage.removeItem("lastname")
```

Related Pages:

https://www.w3schools.com/jsref/met_storage_removeitem.asp

Parameters

key (*Union[primitives.JsDataModel, str]*) – A String specifying the name of the item you want to remove.

Returns

Void

setItem(*key: Union[JsDataModel, str]*, *data: Any*)

Syntax for SAVING data to localStorage.

The localStorage object stores data with no expiration date. The data will not be deleted when the browser is closed, and will be available the next day, week, or year.

Usage:

```
jsObj.localStorage.getItem("lastname", "test")
```

Related Pages:

https://www.w3schools.com/jsref/met_storage_setitem.asp

Parameters

- **key** (*Union[primitives.JsDataModel, str]*) – A String specifying the name of the key you want to set the value of.

- **data** (*Aby*) – A String specifying the value of the key you want to set the value of.

Returns
A String, representing the inserted value.

class epyk.core.js.JsWindow.**JsSessionStorage**

The localStorage and sessionStorage properties allow to save key/value pairs in a web browser.

The sessionStorage object stores data for only one session (the data is deleted when the browser tab is closed).

https://www.w3schools.com/Jsref/prop_win_sessionstorage.asp

clear()

Syntax for REMOVING ALL saved data from sessionStorage

The sessionStorage object stores data for only one session (the data is deleted when the browser tab is closed).

Related Pages:

https://www.w3schools.com/jsref/prop_win_sessionstorage.asp

getItem(*key: Union[JsDataModel, str]*)

Syntax for READING data from sessionStorage

The sessionStorage object stores data for only one session (the data is deleted when the browser tab is closed).

Usage:

```
jsObj.sessionStorage.getItem("lastname")
jsObj.console.log(jsObj.sessionStorage.getItem("lastname"))
```

Parameters
key (*Union[primitives.JsDataModel, str]*) –

key(*i: Union[JsDataModel, int]*)

The sessionStorage object stores data for only one session (the data is deleted when the browser tab is closed).

Parameters
i (*Union[primitives.JsDataModel, int]*) – The key number.

removeItem(*data*, *key: Optional[Union[JsDataModel, str]] = None*, *is_py_data: bool = False*, *js_funcs: Optional[Union[list, str]] = None*)

Syntax for REMOVING ALL saved data from sessionStorage.

The sessionStorage object stores data for only one session (the data is deleted when the browser tab is closed).

Usage:

```
jsObj.sessionStorage.removeItem("lastname")
```

Related Pages:

https://www.w3schools.com/jsref/met_storage_removeitem.asp

Parameters

- **data** –

- **key** –
- **is_py_data** (*bool*) –
- **js_funcs** (*Union[list, str]*) –

setItem(*key: Union[JsDataModel, str]*, *data: Any*)

Syntax for SAVING data to sessionStorage.

The sessionStorage object stores data for only one session (the data is deleted when the browser tab is closed).

Usage:

```
jsObj.sessionStorage.setItem("lastname", "Smith")
jsObj.sessionStorage.setItem("lastname", jsObj.objects.get("bin")),
```

Related Pages:

https://www.w3schools.com/Jsref/prop_win_sessionstorage.asp

Parameters

- **key** (*Union[primitives.JsDataModel, str]*) – The key used to store the data in the session cache.
- **data** (*Any*) –

class epyk.core.js.JsWindow.**JsUrl**

createObjectURL(*data: Union[JsDataModel, str]*)

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Blob

Parameters

data (*Union[primitives.JsDataModel, str]*) –

class epyk.core.js.JsWindow.**JsWindow**(*page: Optional[PageModel] = None*)

The window object represents an open window in a browser.

If a document contain frames (<iframe> tags), the browser creates one window object for the HTML document, and one additional window object for each frame.

Related Pages:: https://www.w3schools.com/Jsref/obj_window.asp

property URL

addEventListener(*event_type: Union[JsDataModel, str]*, *js_funcs: Union[JsDataModel, str]*, *window_id: str = 'window'*, *profile: Optional[Union[bool, dict]] = False*)

Parameters

- **event_type** (*Union[primitives.JsDataModel, str]*) –
- **js_funcs** (*Union[primitives.JsDataModel, str]*) –
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

alert(*data*, *js_funcs: Optional[Union[list, str]] = None*, *window_id: str = 'window'*, *skip_data_convert: bool = False*)

The alert() method displays an alert box with a specified message and an OK button.

Usage:

```
page.js.window.alert("Test")
page.js.alert("Test 2")
```

Related Pages:

https://www.w3schools.com/jsref/met_win_alert.asp

Parameters

- **data** – Optional. Specifies the text to display in the alert box, or an object converted into a string and displayed
- **js_funcs** (*Union[list, str]*) – A JsFnc or a list of JsFncs.
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.
- **skip_data_convert** (*bool*) –

atob(*data: Union[str, JsDataModel]*, *js_funcs: Optional[Union[list, str]] = None*, *window_id: str = 'window'*)

Decodes a base-64 encoded string.

Usage:

```
jsObj.window.btoa("Test").setVar("bin")
jsObj.window.atob(jsObj.objects.get("bin"))
```

Related Pages:

https://www.w3schools.com/jsref/met_win_atob.asp

Parameters

- **data** (*Union[str, primitives.JsDataModel]*) – The string which has been encoded by the btoa() method.
- **js_funcs** (*Union[list, str]*) – A JsFnc or a list of JsFncs
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.

btoa(*data: Union[str, JsDataModel]*, *js_funcs: Optional[Union[list, str]] = None*, *window_id: str = 'window'*)

Encodes a string in base-64.

Usage:

```
jsObj.window.btoa("Test").setVar("bin")
```

Related Pages:

https://www.w3schools.com/jsref/met_win_btoa.asp

Parameters

- **data** (*Union[str, primitives.JsDataModel]*) – Required. The string to be encoded.

- **js_funcs** (*Union[list, str]*) – The PyJs functions.
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.

clearInterval(*var_id: str*, *window_id: str = 'window'*)

The clearInterval() method clears a timer set with the setInterval() method.

The ID value returned by setInterval() is used as the parameter for the clearInterval() method.

Usage:

```
jsObj.window.setInterval([jsObj.console.log(jsObj.math.random())], 500).setVar(
↪"interva1"),
jsObj.window.clearInterval(jsObj.objects.get("interva1"))
```

Related Pages:

https://www.w3schools.com/jsref/met_win_clearinterval.asp

#TODO: Check if interval is unique

Parameters

- **var_id** (*str*) – A PythonJs object (JsArray, JsObject...) or reference
- **window_id** (*str*) – The JavaScript window object.

Returns

Void, The Javascript String

clearTimeout(*data*, *js_funcs: Optional[Union[list, str]] = None*, *window_id: str = 'window'*)

The clearTimeout() method clears a timer set with the setTimeout() method. The ID value returned by setTimeout() is used as the parameter for the clearTimeout() method.

Related Pages:

https://www.w3schools.com/jsref/met_win_cleartimeout.asp

Parameters

- **data** –
- **js_funcs** (*Union[list, str]*) – The PyJs functions.
- **window_id** (*str*) – The JavaScript window object.

close(*window_id: str = 'window'*)

Closes the current window.

Related Pages:

https://www.w3schools.com/jsref/met_win_close.asp

Parameters

window_id (*str*) – Optional. The JavaScript window object reference variable.

Returns

The String representing the Javascript function.

property document

Interface to the DOM object on the current window.

Returns
A Python JsDoms object wrapping the DOM Js interface.

download(*data*, *file_name: str*, *profile: Optional[Union[bool, dict]] = False*)

Download the data from a flat file.

Usage:

```
page.js.window.download(rptObj.js.window.btoa(rptObj.js.objects.get("test")),␣
↪fileName="test.txt")
```

Parameters

- **data** –
- **file_name** –
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

Returns
Void,

property events

Property to all the events.

focus(*window_id: str = 'window'*)

The focus() method sets focus to the current window

Related Pages:

https://www.w3schools.com/Jsref/met_win_focus.asp

Parameters
window_id (*str*) – Optional. The JavaScript window object reference variable.

Returns
Void, The Javascript String

getComputedStyle(*element*, *pseudo_element=None*, *window_id: str = 'window'*)

The getComputedStyle() method gets all the actual (computed) CSS property and values of the specified element.

Related Pages:

https://www.w3schools.com/jsref/jsref_getcomputedstyle.asp

Parameters

- **element** – The element to get the computed style for.
- **pseudo_element** –
- **window_id** (*str*) – The JavaScript window object.

Returns
A CSSStyleDeclaration object containing CSS declaration block of the element

getSelection(*window_id: str = 'window'*)

Returns a Selection object representing the range of text selected by the user.

Parameters
window_id (*str*) – The JavaScript window object

getVar(*var_id: str*, *window_id: str = 'window'*)

Get the Javascript Variable name.

Parameters

- **var_id** (*str*) – The Variable name.
- **window_id** (*str*) – The JavaScript window object.

Returns
Return the piece of script to be added to the Javascript.

property history: *JsHistory*

Interface to the History object.

Usage:

```
dt = page.ui.date(html_code="date")
input = page.ui.input(html_code="input")
dt.select([
  page.js.window.history.updateStateFromComponent(dt),
  page.js.window.history.updateStateFromComponent(input)
```

Returns
A Python Js History object.

property innerHeight

The innerHeight property returns the height of a window's content area.

Related Pages:

https://www.w3schools.com/jsref/prop_win_innerheight.asp

Parameters
window_id (*str*) – String. Optional. The window reference.

location(*url: str*, *window_id: str = 'window'*)

Change the window and open the page specify by the url.

Parameters

- **url** (*str*) – The new page url.
- **window_id** (*str*) – Optional. The JavaScript window object.

moveBy(*x: int*, *y: int*, *window_id: str = 'window'*)

The moveBy() method moves a window a specified number of pixels relative to its current coordinates.

Related Pages:

https://www.w3schools.com/Jsref/met_win_moveby.asp

Parameters

- **x** (*int*) – The horizontal move in pixel.

- **y** (*int*) – The vertical move in pixel.
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.

onBeforeUnload(*js_funcs: Union[list, str]*)

Parameters
js_funcs (*Union[list, str]*) – A JsFnc or a list of JsFncs

onPageShow(*js_funcs: Union[list, str]*)

Parameters
js_funcs (*Union[list, str]*) – The PyJs functions.

open(*url: str*, *name: str = '_self'*, *specs: Optional[list] = None*, *replace: Optional[bool] = None*, *window_id: str = 'window'*)

Opens a new browser window

Related Pages:

https://www.w3schools.com/Jsref/met_win_open.asp

Parameters

- **url** (*str*) – Optional. Specifies the URL of the page to open. If no URL is specified, a new window/tab with about:blank is opened
- **name** (*str*) – Optional. Specifies the target attribute or the name of the window.
- **specs** (*list*) – Optional. A comma-separated list of items, no whitespaces.
- **replace** (*bool*) – Optional. Specifies whether the URL creates a new entry or replaces the current entry in the history list
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.

postData(*data*)

Parameters
data –

print_(*window_id: str = 'window'*)

Prints the content of the current window.

Related Pages:

https://www.w3schools.com/Jsref/met_win_print.asp

Parameters
window_id (*str*) – Optional. The JavaScript window object reference variable.

Returns
Void, The Javascript String

scroll(*x: int*, *y: int*, *window_id: str = 'window'*)

The Window.scroll() method scrolls the window to a particular place in the document.

Related Pages:

https://developer.mozilla.org/uk/docs/Web/API/Window/scroll

Parameters

- **x** (*int*) – The pixel along the horizontal axis of the document that you want displayed in the upper left.
- **y** (*int*) – The pixel along the vertical axis of the document that you want displayed in the upper left.
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.

property scrollEndPage

The scrollEndPage property indicates if the page is scrolled to the end.

Parameters
window_id (*str*) – Optional. The window reference.

property scrollMaxY

The Window.scrollMaxY read-only property returns the maximum number of pixels that the document can be scrolled vertically.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Window/scrollMaxY

Parameters
window_id – Optional. The window reference.

property scrollPercentage

The scrollPercentage property return the percentage of the page scrolled.

Parameters
window_id (*str*) – Optional. The window reference.

scrollTo(*x: Optional[int] = None*, *y: Optional[int] = None*, *window_id: str = 'window'*)

The window.scrollTo() go to a particular point.

Parameters

- **x** (*int*) – Optional.
- **y** (*int*) – Optional.
- **window_id** (*str*) – Optional. The JavaScript window object reference variable.

scrollUp(*window_id: str = 'window'*)

Parameters
window_id (*str*) – Optional. The JavaScript window object reference variable.

property scrollY

The read-only scrollY property of the Window interface returns the number of pixels that the document is currently scrolled vertically.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Window/scrollY

Parameters
window_id (*str*) – Optional. The window reference.

setInterval(*js_funcs: Union[list, str]*, *var_id: str*, *milliseconds: int*, *window_id: str = 'window'*, *set_var: bool = True*, *profile=False*, *run_on_start: bool = False*)

The setInterval() method calls a function or evaluates an expression at specified intervals (in milliseconds).

The setInterval() method will continue calling the function until clearInterval() is called, or the window is closed.

Usage:

```
jsObj.window.setInterval([jsObj.console.log(jsObj.math.random())], 5000)
```

Related Pages:

https://www.w3schools.com/jsref/met_win_setinterval.asp

#TODO: Add a control on setInterval to only have one created

Parameters

- **js_funcs** (*Union[list, str]*) – The function that will be executed.
- **var_id** (*str*) – The JavaScript variable name.
- **milliseconds** (*int*) – The intervals (in milliseconds) on how often to execute the code.

If the value is less than 10, the value 10 is used. :param str window_id: The JavaScript window object. :param bool set_var: Set the variable on the JavaScript side. :param bool profile: A flag to set the component performance storage. :param bool run_on_start: Flag to start the call at the start.

setTimeout(*js_funcs: Union[list, str]*, *milliseconds: int = 0*, *window_id: str = 'window'*, *profile: Optional[Union[bool, dict]] = False*)

The setTimeout() method calls a function or evaluates an expression after a specified number of milliseconds.

Related Pages:

https://www.w3schools.com/jsref/met_win_settimeout.asp

Parameters

- **js_funcs** – The function that will be executed.
- **milliseconds** – Optional. The number of milliseconds to wait before executing the code.
- **window_id** – Optional. The JavaScript window object.
- **profile** – Optional. Set to true to get the profile for the function on the Javascript console.

toggleInterval(*js_funcs: Union[list, str]*, *var_id: str*, *milliseconds*, *window_id: str = 'window'*)

Usage:

```
page.ui.button("Interval Toggle").click([
  page.js.window.toggleInterval(rptObj.js.console.log('Print called'), 'test',␣
↪400),
])
```

Parameters

- **js_funcs** (*Union[list, str]*) – The PyJs functions.
- **var_id** (*str*) – A PythonJs object (JsArray, JsObject...) or reference.

- **milliseconds** (*int*) – Optional. The number of milliseconds to wait before executing the code.
- **window_id** (*str*) – Optional. The JavaScript window object.

class epyk.core.js.JsWindow.**JsWindowEvent**

addClickListener(*js_funcs: Union[list, str]*, *window_id: str = 'window'*, *sub_events: Optional[list] = None*)

Parameters

- **js_funcs** (*Union[list, str]*) – The PyJs functions.
- **window_id** (*str*) – The window object reference.
- **sub_events** (*list*) –

addContentLoaded(*js_funcs: Union[list, str]*, *window_id: str = 'window'*)

The DOMContentLoaded event fires when the initial HTML document has been completely loaded and parsed, without waiting for stylesheets, images, and subframes to finish loading.

Usage:

```
page.js.addOnLoad(
page.js.window.events.addContentLoaded(rptObj.js.alert("DOM fully loaded and␣
↪parsed")))
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Window/DOMContentLoaded_event

Parameters

- **js_funcs** (*Union[list, str]*) – The PyJs functions.
- **window_id** (*str*) – The window object reference.

addEventListener(*event_type: Union[JsDataModel, str]*, *js_funcs: Union[list, str]*, *window_id: str = 'window'*, *sub_events: Optional[list] = None*, *profile: Optional[Union[bool, dict]] = False*)

Parameters

- **event_type** (*Union[primitives.JsDataModel, str]*) –
- **js_funcs** – The PyJs functions.
- **window_id** (*str*) – The window object reference.
- **sub_events** (*list*) – List of names you want your underlying function to have as arguments.
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

addScrollListener(*js_funcs: Union[list, str]*, *window_id: str = 'window'*)

Parameters

- **js_funcs** (*Union[list, str]*) – The PyJs functions.
- **window_id** (*str*) – The window object reference.

5.8.2.2.3 Location

The location object contains information about the current URL.

The location object is part of the window object and is accessed through the window.location property.

Related Pages:

https//www.w3schools.com/jsref/obj_location.asp

class epyk.core.js.JsLocation.**JsLocation**

JavaScript Location module.

classmethod assign(*url: Union[str, JsDataModel]*) → JsFunction

The assign() method loads a new document.

Related Pages:

https//www.w3schools.com/jsref/met_loc_assign.asp

Parameters

url – Specifies the URL of the page to navigate to

classmethod download(*url: Union[str, JsDataModel]*, *name: Union[str, JsDataModel] = 'download'*) → JsVoid

Download data from the url.

Parameters

- **url** – The url of the image
- **name** – Optional. The name of the file

classmethod getUrlFromArrays(*data: Union[list, JsDataModel]*, *delimiter: Union[str, JsDataModel] = ','*, *charset: str = 'utf-8'*, *end_line: Union[str, JsDataModel] = \r\n'*)

Convert data to a URL.

Parameters

- **data** – A JavaScript array
- **delimiter** – Optional. The column delimiter
- **charset** – Optional.
- **end_line** – Optional.

classmethod getUrlFromData(*data: Union[dict, JsDataModel]*, *options: Optional[Union[dict, JsDataModel]] = None*)

Convert data to a URL.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Blob

Parameters

- **data** – Input data to be converted
- **options** – Optional. Blob definition properties

property hash: JsObject

The hash property sets or returns the anchor part of a URL, including the hash sign (#).

Usage:

```
jsObj.location.hash
```

Related Pages:

https//www.w3schools.com/jsref/prop_loc_hash.asp

Returns
A String, representing the anchor part of the URL, including the hash sign (#).

property host: JsString

The host property sets or returns the hostname and port of a URL.

Usage:

```
jsObj.location.host
```

Related Pages:

https//www.w3schools.com/jsref/prop_loc_host.asp

Returns
Return the hostname and port of the current URL.

property hostname: JsString

The hostname property sets or returns the hostname of a URL.

Usage:

```
page.location.hostname
```

Related Pages:

https//www.w3schools.com/jsref/obj_location.asp

Returns
Return the hostname property.

classmethod href(*href: Optional[Union[JsDataModel, str]] = None*, *secured: bool = False*) → JsObject

The href property sets or returns the entire URL of the current component.

Usage:

```
page.js.location.href("https://www.w3schools.com/howto/howto_js_fullscreen.asp")
```

Related Pages:

https://www.w3schools.com/jsref/prop_loc_href.asp

Parameters

- **href** – Optional. Set the href property
- **secured** – Optional. The secured flag

Returns
A String, representing the entire URL of the page, including the protocol (like http://).

mail(*mails: List[str]*, *subject: str*, *body: str*)

The mailto link when clicked opens users default email program or software. A new email page is created with "To" field containing the address of the name specified on the link by default.

Usage:

```
page.js.location.mail(["test@gmail.com"], "This is a test", "This is the email
↪'s content")
```

Related Pages:

http://www.tutorialspark.com/html5/HTML5_email_mailto.php

Parameters

- **mails** – The email addresses
- **subject** – The email's subject
- **body** – The email's content

Returns
THe Javascript string.

classmethod open_new_tab(*url: Union[str, JsDataModel]*, *name: Union[str, JsDataModel] = '_blank'*, *specs: Optional[Union[JsDataModel, str]] = None*, *replace: Optional[Union[JsDataModel, str]] = None*, *window_id: str = 'window'*, *data: Optional[dict] = None*, *secured: bool = False*) → JsFunction

Opens a new browser window in a new tab (duplicated but part of the Window module).

Usage:

```
page.js.location.open_new_tab("www.google.fr")
```

Related Pages:

https://www.w3schools.com/Jsref/met_win_open.asp

Parameters

- **url** – Optional. Specifies the URL of the page to open. If no URL is specified, a new window/tab with about:blank is opened
- **name** – Optional. Specifies the target attribute or the name of the window. Default _blank
- **specs** – Optional. A comma-separated list of items, no whitespaces
- **replace** – Optional. Specifies whether the URL creates a new entry or replaces the current entry in the history list
- **window_id** – Optional. The JavaScript window object
- **data** – Optional. The url parameters
- **secured** – Optional. The secure flag

property origin: JsString

The origin property returns the protocol, hostname and port number of a URL.

Usage:

```
page.js.location.origin + page.js.location.pathname
```

Related Pages:

https//www.w3schools.com/jsref/prop_loc_origin.asp

Returns

A String, representing the protocol (including ://), the domain name (or IP address) and port number (including the colon sign (:) of the URL. For URL's using the "file:" protocol, the return value differs between browser)

property pathname: JsString

The hostname property sets or returns the hostname of a URL.

Usage:

```
jsObj.location.pathname
```

Related Pages:

https//www.w3schools.com/jsref/obj_location.asp

Returns

Return the pathname property.

property port: JsString

The port property sets or returns the port number the server uses for a URL.

Related Pages:

https//www.w3schools.com/jsref/prop_loc_port.asp

Returns

A String, representing the port number of a URL.

classmethod postTo(*url: str*, *data: dict*, *method: str = 'POST'*, *target: str = '_blank'*)

This method will create an internal form and submit the response exactly like a post of a form to another page.

Related Pages:

https://www.w3schools.com/jsref/dom_obj_form.asp

Parameters

- **url** – The target url
- **data** – The url parameters
- **method** – Optional. The method used to send the data. Default POST
- **target** – Optional. Target method to access the new page

classmethod reload(*force_get: bool = False*)

The reload() method is used to reload the current document.

The reload() method does the same as the reload button in your browser.

Related Pages:

https//www.w3schools.com/jsref/met_loc_reload.asp

Parameters

force_get – Optional. Specifies the type of reloading: false - Default. Reloads the current page from the cache true - Reloads the current page from the server

classmethod replace(*url: Union[str, JsDataModel]*, *secured: bool = False*) → JsFunction

The replace() method replaces the current document with a new one.

The difference between this method and assign(), is that replace() removes the URL of the current document from the document history, meaning that it is not possible to use the "back" button to navigate back to the original document.

Related Pages:

https//www.w3schools.com/jsref/met_loc_replace.asp

Parameters

- **url** – Specifies the URL of the page to navigate to
- **secured** – Optional. If the http is missing. This will be used to fix the url

property search: JsString

The search property sets or returns the querystring part of a URL, including the question mark (?).

Related Pages:

https//www.w3schools.com/jsref/prop_loc_search.asp

Returns

A String, representing the querystring part of a URL, including the question mark (?).

url(*params: Optional[Union[dict, JsDataModel]] = None*, *removed_params: Optional[List[str]] = None*) → JsString

Get the current url value. This function can also apply some filters on the existing parameters.

Parameters

- **params** – Parameters to be changed / added
- **removed_params** – Parameters to be removed

property urlSearchParams: *URLSearchParams*

The URLSearchParams() constructor creates and returns a new URLSearchParams object.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams/URLSearchParams

class epyk.core.js.JsLocation.**URLSearchParams**(*query: str*)

add(*component: HtmlModel*)

append(*key: Union[str, JsDataModel]*, *value: Any*)

Append a key, value to the url parameter object.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

- **key** – The url parameter
- **value** – The value to be appended to the URL

delete(*key*)

The delete() method of the URLSearchParams interface deletes the given search parameter and all its associated values, from the list of all search parameters.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams/delete

Parameters

key –

get(*key: str*, *default: Optional[Any] = None*)

Get the value of a request parameter in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

- **key** – The url parameter
- **default** – Optional. The default value

getAll(*key: Union[str, JsDataModel]*)

Get all the values of a request parameter in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

key – The url parameter

has(*key: Union[str, JsDataModel]*)

Check if a given parameter is in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

key – The url parameter

set(*key: str*, *value: Any*)

Set the value of a request parameter in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

- **key** – The url parameter
- **value** – The value to set

5.8.2.2.4 Shortcut and Features

This will provide common features like:

- math
- navigator
- performance
- web socket
- primitives

5.8.2.2.5 Technical Documentation

The below secion will provide the technical documentation of the base class for JavaScript.

class epyk.core.js.Js.**JsBase**(*page: Optional[PageModel] = None*, *component: Optional[HtmlModel] = None*)

property accounting

Shortcut to accounting properties.

Usages:

```
page.js.accounting.add_to_imports()
```

Related Pages:

http://openexchangerates.github.io/accounting.js/

activeElement()

The activeElement property returns the currently focused element in the document.

Related Pages:

https://www.w3schools.com/jsref/prop_document_activeelement.asp

Returns
A reference to the element object in the document that has focus.

and_(**args*) → jsWrap

Create a Javascript and statement.

property body: JsDoms

Get the DOM object.

This will return the object. It will not create any variable.

property breadcrumb: *JsBreadCrumb*

Create an internal Breadcrumb to keep track of the user journey within your page.

Related Pages:

https://www.w3schools.com/howto/howto_css_breadcrumbs.asp

Returns
A Python breadcrumb object.

clipboard(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

Copy the full URL to rhe clipboard.

Related Pages:

https://isabelcastillo.com/hidden-input-javascript

Parameters

- **data** – The Javascript expression
- **js_conv_func** – Optional. A specific JavaScript data conversion function

createAttribute(*attribute_name*)

The createAttribute() method creates an attribute with the specified name, and returns the attribute as an Attr object.

Related Pages:

https://www.w3schools.com/jsref/met_document_createattribute.asp

Parameters
attribute_name – The name of the attribute you want to create.

Returns
A Node object, representing the created attribute.

createElement(*tag_name: str*, *js_code: Optional[str] = None*, *set_var: bool = True*, *dom_id: Optional[str] = None*)

The createElement() method creates an Element Node with the specified name.

Related Pages:

https://www.w3schools.com/jsref/met_document_createelement.asp

Parameters

- **tag_name** – The name of the element you want to create
- **js_code** – The variable name to be set. Default random name
- **set_var** – Optional. Create a variable for the new object. Default True
- **dom_id** – Optional. The Dom ID reference for the object

createEvent(*event_type: str*)

The createEvent() method creates an event object.

The event can be of any legal event type, and must be initialized before use.

Related Pages:

https://www.w3schools.com/jsref/event_createevent.asp

Parameters
event_type – A String that specifies the type of the event.

Returns
An Event object

static createTextNode(*text: Optional[Union[JsDataModel, str]] = None*, *js_conv_func: Optional[Union[list, str]] = None*) → JsObject

The createTextNode() method creates a Text Node with the specified text.

Related Pages:

https://www.w3schools.com/jsref/met_document_createtextnode.asp

Parameters

- **text** – Optional. The text of the Text node
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
A Text Node object with the created Text Node.

custom(*data: Union[str, JsDataModel]*, *key: Optional[str] = None*, *is_py_data: bool = False*, *js_func: Optional[Union[list, str]] = None*)

Allow the definition of bespoke javascript strings.

Parameters

- **data** – A String corresponding to a JavaScript object
- **key** – Optional. A key reference in the JavaScript object
- **is_py_data** – Optional. Specify if the data is in Python and should be jsonify first
- **js_func** – Optional. Javascript functions

customFile(*filename: str*, *path: Optional[str] = None*, *module_type: str = 'text/javascript'*, *absolute_path: bool = False*, *requirements: Optional[list] = None*, *randomize: bool = False*, *authorize: bool = False*)

This will load your local javascript file when the report will be built. Then you will be able to use the new features in the different Javascript wrappers.

Usage:

```
page.js.customFile("test.js", r"C:
```

older")

param filename
The filename

param path
Optional. The file path

param module_type
Optional. The module type

param absolute_path
Optional. If path is None this flag will map to the current main path

param requirements
Optional. The list of required packages

param randomize
Optional. Add random suffix to the module to avoid browser caching

param authorize
Optional. Add to the restricted list of packages

return
The Js Object to allow the chaining.

`customText`(*text: str*)

Javascript fragment added at the beginning of the page. This will be called before any function in the framework.

Parameters
`text` – The Javascript fragment

Returns
self to allow the chaining.

`property d3`

D3.js is a JavaScript library for manipulating documents based on data. D3 helps you bring data to life using HTML, SVG, and CSS.

D3's emphasis on web standards gives you the full capabilities of modern browsers without tying yourself to a proprietary framework, combining powerful visualization components and a data-driven approach to DOM manipulation.

Related Pages:

https://d3js.org/

`property data: JsData`

Get wrapped JavaScript data structures.

`decodeURIComponent`(*url_enc: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsObject

The decodeURIComponent() function decodes a URI component.

Related Pages:

https://www.w3schools.com/jsref/jsref_decodeuricomponent.asp

Parameters

- `url_enc` – The URI to be decoded
- `js_conv_func` – Optional. A specific JavaScript data conversion function

Returns
A String, representing the decoded URI.

delay(*js_funcs: Union[list, str]*, *seconds: int = 0*, *window_id: str = 'window'*, *profile: Optional[Union[bool, dict]] = False*)

Add a wrapper on top of the setTimeout.

Usage:

```
page.js.delay([text.build("Change the value")], 5)
```

Parameters

- **js_funcs** – The function that will be executed
- **seconds** – Optional. The number of seconds to wait before executing the code
- **window_id** – Optional. The JavaScript window object
- **profile** – Optional. Set to true to get the profile for the function on the Javascript console

delete(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a DELETE HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

property documentElement

Document.documentElement returns the Element that is the root element of the document (for example, the <html> element for HTML documents).

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Document/documentElement

encodeURIComponent(*uri: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsObject

The encodeURIComponent() function encodes a URI component.

Related Pages:

https://www.w3schools.com/jsref/jsref_encodeuricomponent.asp

Parameters

- **uri** – The URI to be encoded
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
A String, representing the encoded URI.

eval(*data: Union[JsDataModel, str]*, *js_conv_func: Optional[Union[list, str]] = None*)

The eval() function evaluates JavaScript code represented as a string.

Warning: Executing JavaScript from a string is an enormous security risk. It is far too easy for a bad actor to run arbitrary code when you use eval(). See Never use eval()!, below.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/eval

Parameters

- **data** – Data to be evaluated
- **js_conv_func** – Optional. A specific JavaScript data conversion function

execCommand(*command: str*, *show_ui: bool*, *value: str*) → JsVoid

The execCommand() method executes the specified command for the selected part of an editable section.

Related Pages:

https://www.w3schools.com/jsref/met_document_execcommand.asp

:param command:. Specifies the name of the command to execute on the selected section :param show_ui: specifies if the UI should be shown or not :param value: Some commands need a value to be completed

Returns
A Boolean, false if the command is not supported, otherwise true.

extendProto(*py_class: Any*, *func_name: str*, *js_funcs: Union[str, list]*, *pmts: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*)

Javascript Framework extension.

Hook in the base class to allow the definition of specific function to add extra primitive features. Usual this function should be used in a wrapper function with the same name in order to have a coherent bridge between Python and Javascript.

Related Pages:

https://www.w3schools.com/js/js_object_prototypes.asp

Parameters

- **py_class** – PyJs class name
- **func_name** – The Javascript function name
- **js_funcs** – Javascript functions
- **pmts** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Returns
The Js Object to allow the chaining.

fetch(*url: str*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*, *async_await: bool = False*) → JsPromise

The Fetch API provides a JavaScript interface for accessing and manipulating parts of the HTTP pipeline, such as requests and responses.

Usage:

```
page.ui.button("Click").click([
  page.js.fetch("test", {"method": "POST"}).then([
    page.js.console.log(pk.events.response)
  ])
])
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API/Using_Fetch

Parameters

- **url** – The target url
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **async_await** – Optional.

property fncs: JsRegisteredFunctions

Property to the predefined Javascript functions.

Returns
The predefined functions.

for_(*js_funcs: Optional[Union[list, str]] = None*, *step: int = 1*, *start: int = 0*, *end: int = 10*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → JsFor

Shortcut to a for loop.

Usage:

```
js_for = page.js.for_(end=30)
js_for.fncs([page.js.console.log(js_for.i)])
```

Related Pages:

https://www.w3schools.com/js/js_loop_for.asp

Parameters

- **js_funcs** – Javascript functions
- **step** – Optional. The value to increment. Default 1
- **start** – Optional. The first index in the for loop
- **end** – Optional. The last index in the for loop
- **options** – Optional. Specific Python options available for this component

- **profile** – Optional. A flag to set the component performance storage

get(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[Union[Tuple[HtmlModel, str], List[HtmlModel]]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a GET HTTP request.

Usage:

```
inputs = page.ui.input("")
btn = page.ui.button("Click").click([
  page.js.get("/test", {"fegeg": "efefe", "ok": inputs.dom.content},␣
↪components=[("input", inputs)])
])
```

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. A String corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **dataflows** – Chain of data transformations

static getElementById(*id_name: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The getElementById() method returns the element that has the ID attribute with the specified value.

Related Pages:

https://www.w3schools.com/jsref/met_document_getelementbyid.asp

Parameters

- **id_name** – The ID attribute's value of the element you want to get.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

Returns

An Element Object, representing an element with the specified ID. Returns null if no elements with

the specified ID exists

static getElementsByClassName(*cls_name: str*) → JsDoms

The getElementsByClassName() method returns a collection of all elements in the document with the specified class name, as a NodeList object.

Related Pages:

https://www.w3schools.com/jsref/met_document_getelementsbyclassname.asp

Parameters
cls_name – The class name of the elements you want to get.

Returns
A NodeList object, representing a collection of elements with the specified class name. The elements in the returned collection are sorted as they appear in the source code.

static getElementsByName(*name: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsDomsList

The getElementsByName() method returns a collection of all elements in the document with the specified name (the value of the name attribute), as a NodeList object.

The NodeList object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.

Related Pages:

https://www.w3schools.com/jsref/met_doc_getelementsbyname.asp

Parameters

- **name** – The name attribute value of the element you want to access/manipulate.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

Returns
A NodeList object, representing a collection of elements with the specified name. The elements in the returned collection are sorted as they appear in the source code.

static getElementsByTagName(*tag_name: Union[str, JsDataModel]*, *i: int = 0*, *js_conv_func: Optional[Union[list, str]] = None*) → JsDoms

The getElementsByTagName() method returns a collection of an elements's child elements with the specified tag name, as a NodeList object.

The NodeList object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.

Related Pages:

https://www.w3schools.com/jsref/met_element_getelementsbytagname.asp

Parameters

- **tag_name** – The tag name of the child elements you want to get
- **i** – Optional. The index of the element
- **js_conv_func** – Optional. A specific JavaScript data conversion function

getVar(*js_code: Union[str, JsDataModel]*, *var_type: str = 'var'*) → JsObject

Get the Javascript Variable name.

Parameters

- **js_code** – The Variable name
- **var_type** – Optional. The scope of the variable

Returns
Return the piece of script to be added to the Javascript.

if_(*condition: Union[str, list, bool]*, *js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = False*)

Conditional statements are used to perform different actions based on different conditions.

Usage:

```
page.js.if_(icon.icon.dom.content == "fas fa-lock-open cssicon", [
  page.js.console.log(icon.icon.dom.content),
])
```

Related Pages:

https://www.w3schools.com/js/js_if_else.asp

Parameters

- **condition** – The Javascript condition. Can be a JsBoolean object
- **js_funcs** – Optional. The Javascript functions
- **profile** – Optional. A flag to set the component performance storage

import_css(*css_file: str*, *self_contained: bool = False*, *js_code: str = 'css_dyn'*)

Add a CSS file on the fly from a JavaScript event.

Related Pages:

https://stackoverflow.com/questions/19844545/replacing-css-file-on-the-fly-and-apply-the-new-style-to-the-page

Parameters

- **css_file** – A script name with a CSS extension
- **self_contained** – Optional. A flag to specify where the import will be done

import_js(*script: str*, *js_funcs: Union[str, list]*, *profile: Optional[Union[bool, dict]] = None*, *self_contained: bool = False*)

Add a Javascript module and then run function once it is loaded.

Usage:

```
icon = page.ui.icons.clock().css({"color": 'blue'})
icon.click([ page.js.import_js("utils.js", ["testImport()"])])
```

Related Pages:

https://cleverbeagle.com/blog/articles/tutorial-how-to-load-third-party-scripts-dynamically-in-javascript
https://stackoverflow.com/questions/950087/how-do-i-include-a-javascript-file-in-another-javascript-file

Parameters

- **script** – A script name. A Js extension
- **js_funcs** – Callback function when module loaded. The Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **self_contained** – Optional. A flag to specify where the import will be done

info(*data: Union[str, JsDataModel]*, *css_style: Optional[dict] = None*, *icon: str = 'fas fa-spinner fa-spin'*, *seconds: int = 10000*)

Display a message.

Related Pages:

https://fontawesome.com/how-to-use/on-the-web/styling/animating-icons

Parameters

- **data** – A String corresponding to a JavaScript object
- **css_style** – Optional. The CSS attributes to be added to the HTML component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **seconds** – Optional. The number of second the info will be visible

intersectionObserver(*js_code: str*, *callback: Optional[Union[List[Union[str, JsDataModel]], str]] = None*, *options: Optional[dict] = None*, *observe_once: bool = False*, *profile: Optional[Union[bool, dict]] = None*) → IntersectionObserver

Parameters

- **js_code** – The PyJs functions.
- **callback** – JavaScript functions called by the intersectionObserver.
- **options** – intersectionObserver options.
- **observe_once** – A flag to remove the observable once callbacks run.
- **profile** – Option to perform profiling logs in the browser console.

property jquery

jQuery is a fast, small, and feature-rich JavaScript library.

It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

Usage:

```
btn = page.ui.button("Click")
btn.js.jquery.on("click", [
  page.js.alert("It works"),
  btn.js.jquery.after('<div style="background-color:yellow"> New div </div>'),
])
```

Related Pages:

https://jquery.com/

property keydown: KeyCode

The onkeydown event occurs when the user is pressing a key (on the keyboard).

Usage:

```
page.js.keydown.enter(pk.js_std.alert('Hello World'), profile=True)
```

Related Pages:

https://www.w3schools.com/jsref/event_onkeydown.asp

property keypress: KeyCode

The onkeypress event occurs when the user presses a key (on the keyboard).

Usage:

```
page.js.keypress.enter(pk.js_std.alert('Hello World'), profile=True)
```

Related Pages:

https://www.w3schools.com/jsref/event_onkeypress.asp

property keyup: KeyCode

The onkeypress event occurs when the user presses a key (on the keyboard).

Usage:

```
page.js.keyup.enter(pk.js_std.alert('Hello World'), profile=True)
```

Related Pages:

https://www.w3schools.com/jsref/event_onkeypress.asp

property location: *JsLocation*

Property to the Javascript Location functions.

Usage:

```
page.ui.text("Test").click([
  page.js.location.open_new_tab(page.js.location.getUrlFromArrays([
    ["AAA", "BBB"], ["111", "222"]], end_line="
```

"))])

Related Pages:

https://www.w3schools.com/jsref/obj_location.asp

mail(*mails*, *subject=None*, *body=None*, *cc=None*, *bcc=None*)

Create an email.

Related Pages:

https://www.w3docs.com/snippets/html/how-to-create-mailto-links.html

Parameters

- **mails** –
- **subject** –
- **body** –
- **bcc** –

property mediaRecorder: MediaRecorder

The MediaRecorder interface of the MediaStream Recording API provides functionality to easily record media. It is created using the MediaRecorder() constructor.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/MediaRecorder

property moment

Parse, validate, manipulate, and display dates and times in JavaScript.

Usage:

```
page.js.moment.new("2021-08-05", varName="momentTime"),
page.js.console.log(page.js.moment.var("momentTime").weekYear(1998)),
page.js.console.log(page.js.moment.var("momentTime").weekYear()),
page.js.console.log(page.js.moment.new("2021-08-05")),
```

Related Pages:

https://momentjs.com/ https://github.com/you-dont-need/You-Dont-Need-Momentjs

property msg: Msg

Shortcut to predefined temporary messages displayed to the UI.

navigateTo(*url: Union[str, JsDataModel]*, *options: Optional[dict] = None*) → JsObject

Navigator to another URL like NodeJs.

Usage:

```
icon.click([self.context.page.js.navigateTo(url)])
```

Related Pages:

https://redfin.github.io/react-server/annotated-src/navigateTo.html

Parameters

- **url** – The target url
- **options** – Optional. The property of the location object

property navigator: JsNavigator

The information from the navigator object can often be misleading, and should not be used to detect browser versions because:

- Different browsers can use the same name.
- The navigator data can be changed by the browser owner.
- Some browsers misidentify themselves to bypass site tests.
- Browsers cannot report new operating systems, released later than the browser.

not_(*data*, *js_conv_func: Optional[Union[list, str]] = None*) → JsFunction

Add the Symbol (!) for the boolean negation. This feature is also available directly to any JsBoolean objects.

Usage:

```
jsObj.not_(jsObj.objects.boolean.get("weekend"))
```

Related Pages:

https://developer.mozilla.org/fr/docs/Web/JavaScript/Reference/Op%C3%A9rateurs/Op%C3%A9rateurs_logiques

Parameters

- **data** – A String corresponding to a JavaScript object

- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript fragment string.

number(*data*, *js_code: Optional[str] = None*, *set_var: bool = False*, *is_py_data: bool = True*) → JsNumber
Shortcut to the Javascript Number primitives.

Parameters

- **data** – The String data.
- **js_code** – Optional. The specific name to be used for this JavaScript String.
- **set_var** – Optional. Set a variable. Default False.
- **is_py_data** – Optional. Specify the type of data.

object(*data*, *js_code: Optional[str] = None*, *set_var: bool = False*, *is_py_data: bool = True*) → JsObject
Shortcut to the Javascript Object primitives.

Parameters

- **data** – The String data.
- **js_code** – Optional. The specific name to be used for this JavaScript String.
- **set_var** – Optional. Set a variable. Default False.
- **is_py_data** – Optional. Specify the type of data.

property objects: JsObjects
Interface to the main Javascript Classes and Primitives.

onReady(*js_funcs: Union[str, list]*, *profile: Optional[Union[bool, dict]] = False*)
The ready event occurs when the body DOM (document object model) has been loaded.

Related Pages:

https://www.w3schools.com/jquery/event_ready.asp

Parameters

- **js_funcs** – The Javascript functions to be added to this section
- **profile** – Optional. A flag to set the component performance storage

or_(**args*) → jsWrap
Create a Javascript Or statement.

static parseDate(*value: str*) → JsNumber
The parse() method parses a date string and returns the number of milliseconds between the date string and midnight of January 1, 1970.

Related Pages:

https://www.w3schools.com/jsref/jsref_parse.asp

Parameters
value – A string representing a date.

Returns
Number. Representing the milliseconds between the specified date-time and midnight January 1, 1970.

static parseFloat(*value: str*) → JsNumber

The parseFloat() function parses a string and returns a floating point number.

Related Pages:

https://www.w3schools.com/jsref/jsref_parseint.asp

Parameters
value – The string to be parsed.

Returns
A Number. If the first character cannot be converted to a number, NaN is returned.

static parseInt(*value: str*)

The parseInt() function parses a string and returns an integer.

Related Pages:

https://www.w3schools.com/jsref/jsref_parseint.asp

Parameters
value – The string to be parsed.

Returns
A Number. If the first character cannot be converted to a number, NaN is returned.

patch(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a PATH HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

post(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a POST HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

print(*content: Union[str, JsDataModel]*, *timer: int = 1000*, *css_attrs: Optional[dict] = None*)

Print a temporary message.

Parameters

- **content** – The content of the popup.
- **timer** – Optional. The time the popup will be displayed.
- **css_attrs** – Optional. The CSS attributes for the popup.

profile(*type: Union[str, JsDataModel]*, *html_code: str*, *mark: Union[str, JsDataModel]*, *records_count: Optional[int] = None*)

Parameters

- **type** – The type of profile tag.
- **html_code** – The HTML component ID.
- **mark** – The mark reference.
- **records_count** – Optional. The records count.

put(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a PUT HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request

- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

querySelector(*selector: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The querySelector() method returns the first element that matches a specified CSS selector(s) in the document.

Related Pages:

https://www.w3schools.com/jsref/met_document_queryselector.asp

Parameters

- **selector** – CSS selectors.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

querySelectorAll(*selector: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsDomsList

The querySelectorAll() method returns all elements in the document that matches a specified CSS selector(s), as a static NodeList object.

Related Pages:

https://www.w3schools.com/jsref/met_document_queryselectorall.asp

Parameters

- **selector** – CSS selectors.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

queueMicrotask(*js_funcs: Union[List[Union[str, JsDataModel]], str]*, *profile: Optional[Union[bool, dict]] = None*)

The queueMicrotask() method, which is exposed on the Window or Worker interface, queues a microtask to be executed at a safe time prior to control returning to the browser's event loop.

Usage:

```
page.body.onReady([
    page.js.queueMicrotask([page.js.alert("ok")])
  ])
```

Related Pages:

https://developer.mozilla.org/fr/docs/Web/API/queueMicrotask

Parameters

- **js_funcs** – The Javascript function definition
- **profile** – Optional. A flag to set the component performance storage

registerFunction(*func_name: str*, *js_funcs: Union[str, list]*, *args: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*)

Javascript Framework extension.

Register a predefined Javascript function. This is only dedicated to specific Javascript transformation functions.

Parameters

- **func_name** – The function name
- **js_funcs** – The Javascript function definition
- **args** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

request_http(*method_type: str*, *url: str*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[HtmlModel]] = None*) → XMLHttpRequest

All modern browsers have a built-in XMLHttpRequest object to request data from a server.

Related Pages:

https://www.w3schools.com/xml/xml_http.asp

Usage:

```
page.js.request_http("ajax", "POST", "https://api.cdnjs.com/libraries").
↪setHeaders(header).onSuccess([
page.js.alert(rptObj.js.objects.request.get("ajax").responseText)]).
↪send(encodeURIData={"search": 'ractive'})
```

Parameters

- **method_type** – The method of the HTTP Request
- **url** – The url path of the HTTP request
- **js_code** – Optional. The variable name created in the Javascript
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. A list of HTML objects values to be passed in the request

request_rpc(*js_code: str*, *method_type: Union[str, JsDataModel]*, *fnc: Callable*, *url: str*, *extra_params: Optional[Union[dict, JsDataModel]] = None*) → XMLHttpRequest

Internal RPC to trigger services.

Parameters

- **js_code** – The variable name created in the Javascript.
- **method_type** – The method type
- **fnc** – Python function.
- **url** – The service url

- **extra_params** – Optional.

rest(*method: str*, *url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a POST HTTP request.

Parameters

- **method** – The REST method used
- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Optional. Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

return_(*data: str*) → JsFunction

Javascript return keyword.

Parameters
data – The Javascript expression.

property rxjs

Reactive Extensions Library for JavaScript.

Related Pages:

https://rxjs.dev/

property samples: Samples

JavaScript feature to provide sample of data for a test/demo.

Usage:

```
page.js.samples.months(count_=7)
page.js.samples.numbers(count_=7, min_=-100, max_=100)
```

property screen

The screen object contains information about the visitor's screen.

Related Pages:

https://www.w3schools.com/jsref/obj_screen.asp

serverSentEvent(*html_code: Optional[str] = None*) → ServerSentEvent

SSE is a native HTML5 feature that allows the server to keep the HTTP connection open and push data changes to the client. Server-sent Streaming is really ideal for server-push notifications, device monitoring and all other tasks that do not require real-time push back from the client.

Related Pages:

https://medium.com/code-zen/python-generator-and-html-server-sent-events-3cdf14140e56 https://www.w3schools.com/html/html5_serversentevents.asp https://developer.mozilla.org/en-US/docs/Web/API/Server-sent_events/Using_server-sent_events

Parameters

html_code – The EventSource id (variable name) on the JavaScript side

socketio(*html_code: Optional[str] = None*)

This object must be created on the Python side.

The various function will be the one generating the Javascript string. This is just a Python wrapper on top of the library.

Related Pages:

https://www.tutorialspoint.com/socket.io/socket.io_event_handling.htm

Parameters

html_code – Optional. The WebSocket id (variable name) on the JavaScript side

speechRecognition(*js_code: str*) → SpeechRecognition

The SpeechRecognition interface of the Web Speech API is the controller interface for the recognition service; this also handles the SpeechRecognitionEvent sent from the recognition service.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/SpeechRecognition

Usage:

```
page = pk.Page()
rec = page.js.speechRecognition("reco")

test = page.ui.button("Start recording")
test.click([rec.start()])

page.ui.input(html_code="test")

rec.speechend([rec.stop()])
rec.onresult([pk.js_callback("UpdateComponent(transcript, confidence)"), page.
↪js.console.log("Done")])
page.body.onReady([page.js.import_js("test_fnc.js", [], self_contained=True),␣
↪rec])

# in the module test_fnc.js
function ProcessData(transcript, confidence){
    console.log(transcript); return (transcript == 'hello')}

function UpdateComponent(transcript, confidence){
    var expr = transcript.split(" ");
    if (expr[0] === "put"){document.getElementById(expr[3]).value = expr[1]}}
```

Parameters

js_code – The variable name for the speech recognition object

string(*data*, *js_code: Optional[str] = None*, *set_var: bool = False*, *is_py_data: bool = True*) → JsString

Shortcut to the Javascript String primitives.

Parameters

- **data** – The String data.
- **js_code** – Optional. The specific name to be used for this JavaScript String.
- **set_var** – Optional. Set a variable. Default False.
- **is_py_data** – Optional. Specify the type of data.

switch(*variable: Union[str, JsDataModel, HtmlModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsSwitch

switch statement is used to perform different actions based on different conditions.

Related Pages:

https://www.w3schools.com/js/js_switch.asp

Parameters

- **variable** – Variable on which we will apply the switch
- **js_conv_func** – Optional. A specific JavaScript data conversion function

static title(*text: Optional[Union[JsDataModel, str]] = None*, *js_conv_func: Optional[Union[list, str]] = None*)

The title property sets or returns the title of the current document (the text inside the HTML title element).

Related Pages:

https://www.w3schools.com/jsref/prop_doc_title.asp

Parameters

- **text** – Optional. Representing the title of the document
- **js_conv_func** – Optional. A specific JavaScript data conversion function

static typeof(*data: str*, *var_type: Optional[str] = None*)

The typeof function.

Related Pages:

https://www.w3schools.com/js/js_datatypes.asp

Parameters

- **data** – A String corresponding to a JavaScript object
- **var_type** – Optional. The type of object

property viewHeight

Return the current View port height visible in the browser.

websocket(*html_code: Optional[str] = None*, *secured: bool = False*)

WebSocket client applications use the WebSocket API to communicate with WebSocket servers using the WebSocket protocol.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications https://javascript.info/websocket

Parameters

- **html_code** – Optional. The WebSocket id (variable name) on the JavaScript side
- **secured** – Optional. To define the right protocol for the WebSocket connection we or wss

while_(*condition: Union[str, list]*, *js_funcs: Union[list, str]*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → JsWhile

The while loop loops through a block of code as long as a specified condition is true.

Related Pages:

https://www.w3schools.com/js/js_loop_while.asp

Parameters

- **condition** – The JavaScript condition
- **js_funcs** – Javascript functions
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

worker(*html_code: Optional[str] = None*, *server: bool = False*)

A web worker is a JavaScript running in the background, without affecting the performance of the page.

Related Pages:

https://www.w3schools.com/html/html5_webworkers.asp

Parameters

- **html_code** – Optional. The WebSocket id (variable name) on the JavaScript side
- **server** – Optional. Specify if the page is running on a server

writeln(*value: str*)

The writeln() method is identical to the document.write() method, with the addition of writing a newline character after each statement.

Related Pages:

https://www.w3schools.com/jsref/met_doc_writeln.asp

Parameters

value – What to write to the output stream. Multiple arguments can be listed and they will be appended to the document in order of occurrence

Returns

No return value

5.8.2.3 Outputs Interface

- **Browsers:**
  - CodePen
  - Stackblitz
  - JsFiddle
  - w3CTryIt
- **Files:**
  - Jupyter
  - JupyterLab
  - HTML page
  - HTML, JavaScript and CSS files
- Web:

class epyk.core.py.PyOuts.**OutBrowsers**(*context*)

codepen(*path: Optional[str] = None*, *target: str = '_blank'*, *open_browser: bool = True*)

Update the Html launcher and send the data to Codepen. URL used: https://codepen.io/pen/define/

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.browser.codepen()
```

Related Pages:

https://www.debuggex.com/cheatsheet/regex/python

Parameters

- **path** – Optional. Output path in which the static files will be generated
- **target** – Optional. Load the data in a new tab in the browser
- **open_browser** – Optional. Flag to open the browser automatically

Returns
The output launcher full file name.

stackblitz(*path: Optional[str] = None*, *target: str = '_blank'*, *open_browser: bool = True*)

Create an output to be compatible with stackblitz.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.codepen()
```

Related Pages:

https://stackblitz.com/docs

Parameters

- **path** – Optional. Output path in which the static files will be generated
- **target** – Optional. Not used. Load the data in a new tab in the browser
- **open_browser** – Optional. Flag to open the browser automatically

class epyk.core.py.PyOuts.**PyOuts**(*page: Optional[PageModel] = None*, *options: Optional[dict] = None*)

property browser

This module will require the package web browser. It will allow outputs to be created directly in the web pages (without using intermediary text files.

codepen(*path: Optional[str] = None*, *name: Optional[str] = None*)

Produce files which will be compatible with codepen.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.codepen()
```

Related Pages:

https://codepen.io/

Parameters

- **path** – Optional. The path in which the output files will be created
- **name** – Optional. The filename without the extension

TODO Try to add the prefill https://blog.codepen.io/documentation/api/prefill/

Returns
The file path

component(*selector: str*)

Return a standalone component like object for the different web framework.

html()

Function to get the result HTML page fragments from all the HTML components.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.html()
```

html_file(*path: Optional[str] = None*, *name: Optional[str] = None*, *options: Optional[dict] = None*, *print_paths: bool = False*, *run_id: Union[bool, str] = True*)

Function used to generate a static HTML page for the report.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.html_file()

# To generate multiple files using local packages
```

(continues on next page)

(continued from previous page)

```
page.imports.static_url = "C:\epyks\statics"
page.outs.html_file(name="test.html", options={"split": True, "minify": True,
↪"static_path": page.imports.static_url})
```

Parameters

- **path** – Optional. The path in which the output files will be created
- **name** – Optional. The filename without the extension
- **print_paths** – Optional. Print the page for the created file
- **options** – Optional.
- **run_id** – Optional.

Returns
The file full path.

jsfiddle(*path: Optional[str] = None*, *name: Optional[str] = None*, *framework: str = 'jsfiddle'*)

Produce files which can be copied directly to https://jsfiddle.net in order to test the results and perform changes.

The output is always in a sub-directory jsfiddle.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.codepen()
```

Related Pages:

https://jsfiddle.net/

Parameters

- **path** – Optional. The path in which the output files will be created
- **name** – Optional. The filename without the extension
- **framework** – optional. The framework in which the result page will be used

Returns
The file path

jupyter(*verbose: bool = False*, *requireJs: Optional[dict] = None*, *closure: bool = True*, *requirejs_path: Optional[dict] = None*, *requirejs_func: Optional[dict] = None*)

For a display of the report in Jupyter. Thanks to this function some packages will not be imported to not conflict with the existing ones.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.jupyter()
```

Related Pages:

https://jupyter.org/

Parameters

- **verbose** – Optional. Get the excluded packages
- **requireJs** – Optional. The requirements overrides from the apps property
- **closure** – Optional.
- **requirejs_path** – Optional.
- **requirejs_func** – Optional.

Returns
The output object with the function _repr_html_

`jupyterlab()`

For a display of the report in JupyterLab. Thanks to this function some packages will not be imported to not conflict with the existing ones.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.jupyterlab()
```

Related Pages:

https://jupyter.org/

`markdown_file(path: Optional[str] = None, name: Optional[str] = None)`

Writes a Markdown file from the report object.

Parameters

- **path** – The path in which the output files will be created.
- **name** – The filename without the extension.

Returns
The file path

`publish(server: str, root_path: str, selector: str, alias: Optional[str] = None, target_folder: str = 'apps')`

Publish the HTML page to a distant web server.

Usage:

```
:param server: Target web framework alias
:param root_path: Root path for the web server
:param selector: Component / Application internal selector (name)
:param alias: The url endpoint for the new page
:param target_folder: The applications sub folder (default apps)
```

`w3cTryIt(path: Optional[str] = None, name: Optional[str] = None)`

This will produce everything in a single page which can be directly copied to the try editor in w3C website.

Usage:

```
page = Report()
page.ui.text("This is a text")
page.outs.w3cTryIt()
```

Related Pages:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic

Parameters

- **path** – Optional. The path in which the output files will be created
- **name** – Optional. The filename without the extension

web() → dict

Return the complete page structure to allow the various web framework to split the code accordingly. Fragments will then be used by the various framework to create the corresponding pages.

5.8.2.4 Python Interface

5.8.2.4.1 Dates

class epyk.core.py.PyDates.**PyDates**(*src: Optional[PageModel] = None*)

Common module for managing dates.

This module is a light wrapper on top of datetime in order to perform basic operations on dates. This will also standardise the date format to YYYY-MM-DD in the Python layer to simplify the conversion to the Javascript

All the tests in this module are using doctest.

property cob

Returns the last close of business date.

In this property the parameter weekdays is forced to True.

Usage:

```
page.py.dates.cob
```

Returns
A string date

date_from_alias(*alias: str*, *from_date: Optional[str] = None*)

Return the date corresponding to an alias code like T, T-N, M...

Usage:

```
>>> PyDates().date_from_alias("T", "2019-08-08")
'2019-08-07'
```

Parameters

- **alias** – The alias of the operation (T-3, M-2....)
- **from_date** – Optional. The start date from which the time operation is applied. Today by default

Returns
The converted date or a list of dates.

static date_from_excel(*xl_date: int*)

Convert an Excel date to a standard date format YYYY-MM-DD.

Usage:

```
>>> PyDates().date_from_excel(39448)
'2008-01-01'
```

Related Pages:

https://support.office.com/en-gb/article/date-function-e36c0c8c-4104-49da-ab83-82328b832349?ui=en-US&rs=en-GB&ad=GB

Parameters

xl_date – A date in the Excel format.

Returns

The date as a String in the common format YYYY-MM-DD

static delta(*from_dt: str*, *to_dt: str*, *format_dt: str = '%Y-%m-%d'*)

Parameters

- **from_dt** –
- **to_dt** –
- **format_dt** –

static elapsed(*delta_time*, *with_time: bool = False*)

Get the time between two dates. This function will only format the result of a delta time object.

TODO: Fix this method

Parameters

- **delta_time** – delta_time. The delta time between two python dates.
- **with_time** (*bool*) – Optional. A flag to mention if the time should be computed.

static from_timestamp(*timestamp: int*, *offset: int = 0*, *reference: int = 60*, *factor: int = 1000*)

The default value will be given considering the GMT time.

Usage:

```
timestamp_s = page.py.dates.from_timestamp(1573074335010, 0)
```

Parameters

- **timestamp** – The timestamp in milliseconds.
- **offset** – Optional. The time zone.
- **reference** – Optional. The reference shift in minutes.
- **factor** –

Returns

The server timestamp string

property month_end

Returns the last month end date.

In this property the parameter weekdays is forced to True.

UUsage:

```
page.py.dates.month_end
```

Returns
A string date

month_ends(*from_dt: str*, *to_dt: str*, *weekdays: bool = True*)

Return the list of end of month dates between two dates.

UUsage:

```
>>> PyDates().month_ends("2019-01-01", "2019-06-05", False)
['2019-01-31', '2019-02-28', '2019-03-31', '2019-04-30', '2019-05-31']
```

Parameters

- **from_dt** – The start date in format YYYY-MM-DD.
- **to_dt** – The end date in format YYYY-MM-DD.
- **weekdays** – Optional. remove the weekends from the potential dates (take the day before). Default True.

Returns
A list of dates.

property months

Returns the list of month end dates from the beginning of the year.

In this property the parameter weekdays is forced to True.

Usage:

```
page.py.dates.months
```

Returns
A list of String dates

property now

dd.

Usage:

```
PyDates().now
```

Related Pages:

https://docs.python.org/2/library/datetime.html

Returns
Return a string timestamp

Type
Return the current timestamp in a format YYYY-MM-DD HH

Type
mm

`static path`(*with_time: bool = False*)

Return a predefined format for date in a file path. Using this method will ensure a consistency in the naming convention of the various files in the project.

Parameters
with_time (*bool*) – Optional. Specify if the time should be added to the path.

`property quarters`

Return the list of quarter dates since the beginning of the year.

In this property the parameter weekdays is forced to True.

Usage:

```
page.py.dates.quarters
```

Returns
A list of String dates

`range_dates`(*to_dt: str*, *from_dt: Optional[str] = None*, *weekdays: bool = True*)

Get the list of dates between two dates.

The date should be two string dates in the format YYYY-MM-DD. The resulting range of date will always be increasing

Usage:

```
>>> PyDates().range_dates("2019-01-01", "2019-01-11")
['2019-01-11', '2019-01-10', '2019-01-09', '2019-01-08', '2019-01-07', '2019-01-
↪04', '2019-01-03', '2019-01-02', '2019-01-01']
```

Parameters

- **from_dt** – The start date in format YYYY-MM-DD.
- **to_dt** – Optional. The end date in format YYYY-MM-DD.
- **weekdays** – Optional. Remove the weekends from the potential dates (take the day before). Default True

Returns
A list of dates.

`static to_server_time`(*timestamp: str*, *offset: int = 0*, *reference: int = 60*)

Return the converted timestamp to be stored in the database. This conversion will be based on the offset coming from the UI to convert to common time.

Usage:

```
>>> PyDates().to_server_time("2019-08-20 20:04:10", 2)
'2019-08-20 21:06:10'
```

Parameters

- **timestamp** – The client timestamp.
- **offset** – Optional. The client offset time to be applied before storage in hour.
- **reference** – Optional. The reference time used on the server side.

Returns
The server timestamp string

static to_user_time(*timestamp: str*, *offset: int*, *reference: int = 60*)

Return the converted timestamp to be returned to the user. This is converting a stored timestamp to a user one.

Usage:

```
>>> PyDates().to_user_time('2019-08-20 21:06:10', 2)
'2019-08-20 20:04:10'
```

Parameters

- **timestamp** – The server timestamp.
- **offset** – The client offset time to be applied before storage.
- **reference** – Optional. The reference time used on the server side (default 20).

Returns
The client timestamp string

property today

Return a String date in a format YYYY-MM-DD.

Even if within the property python date object are used, this function will always return a string date in a specific format to guarantee and simplify the compatibility between languages within the components.

Usage:

```
PyDates().today
```

Related Pages:

https://docs.python.org/2/library/datetime.html

Returns
A string date in the format YYYY-MM-DD

5.8.2.4.2 Mails

class epyk.core.py.PyMails.**Email**(*sender*, *recipients*, *subject*, *content*, *attachments=None*, *headers=None*, *mimetype='text/plain'*, *charset='utf8'*)

to_mime()

Return a MIME representation of this object - used internally

5.8.2.4.3 Markdown

class epyk.core.py.PyMarkdown.**MarkDown**(*page: PageModel*)

all(*data: str*)

TODO: Improve this function.

Parameters
data – The data to be parsed.

resolve(*data: str*, *css_attrs: Optional[dict] = None*)

Convert a string to a markdown file.

Parameters

- **data** – Data to be converted.
- **css_attrs** – Optional. The CSS Style to be applied to the component.

classmethod **translate**(*data: str*)

Parameters
data –

5.8.2.4.4 NPM

class epyk.core.py.PyNpm.**Packages**

classmethod **descriptions**(*verbose: bool = True*)

Get all the packages and the short description from NPM.

Parameters
verbose – Optional. Display version details (default True).

classmethod **repositories**(*verbose: bool = True*)

Get the repositories used to retrieve the external packages.

This is a collaborative framework so do not hesitate to contact the author of those packages with ideas or even things to fix. It is important to encourage this open source community and to be part of modules improvements.

Usage:

```
repos = PyNpm.Packages.repositories()
```

Parameters
verbose – Optional. Display version details (default True).

classmethod **versions**(*verbose: bool = True*)

Get the current latest version of all the package in NPM. This could help on maintaining the internal framework up to date with the improvements.

It is important to align with the new version in order to benefit from the community hard work !

Parameters
verbose – Optional. Display version details (default True).

5.8.2.4.5 ReST

class epyk.core.py.PyRest.**PyRest**(*page: Optional[PageModel] = None*)

static csv(*url: str*, *delimiter: str = ','*, *encoding: str = 'utf-8'*, *with_header: bool = True*, *store_location: Optional[str] = None*, *quotechar: str = '"'*)

Retrieve tabular data from an external REST service.

Parameters

- **url** – The url with the data to request.
- **delimiter** – Optional. The line delimiter.
- **encoding** – Optional. The encoding format.
- **with_header** – Optional. A flag to mention if the header is available. (it will be used for the keys)
- **store_location** – Optional. The temp folder to cache the data locally. False will cancel the temps data retrieval
- **quotechar** – Optional.

get(*url: str*, *data=None*, *encoding: str = 'utf-8'*, *headers: Optional[dict] = None*, *proxy: Optional[dict] = None*)

Run an external REST call using the GET method.

This should be used to retrieve data from external services. If data should be extracted using an existing internal service the method query is better as it will embedded the security aspects

Usage:

```
page.py.requests.get("https://api.cdnjs.com/libraries")
pyrest.get(r"https://jsonplaceholder.typicode.com/todos/1")
```

Related Pages:

https://docs.python.org/2/howto/urllib2.html

Parameters

- **url** – Should be a string containing a valid URL
- **data** – Optional. Must be an object specifying additional data to send to the server, or None if no such data is needed
- **encoding** – Optional. The encoding of this request (defaults to 'utf-8'). This encoding will be used to percent-encode the URL and to convert the body to str (if given as unicode)
- **headers** – Optional. Should be a dictionary, and will be treated as if add_header() was called with each key and value as arguments
- **proxy** – Optional.

Returns

Return a Python object by default

http_server(*port: int = 5000*, *service_name: str = ''*)

Start a local server for all the services. This should be at the end of the script in order to allow the services debug.

Parameters

- **port** –
- **service_name** –

json(*url: str*, *encoding: str = 'utf-8'*, *store_location: Optional[str] = None*)

Retrieve Json data from an external REST service.

Parameters

- **url** – The url with the data to request.
- **encoding** – Optional. The encoding format.
- **store_location** – Optional. String. The temp folder to cache the data locally.

post(*url: str*, *data=None*, *encoding: str = 'utf-8'*, *headers: Optional[dict] = None*, *proxy: Optional[dict] = None*)

Run a external REST call using the POST method.

This should be used to retrieve data from external services. If data should be extracted using an existing internal service the method query is better as it will embedded the security aspects

Usage:

```
page.py.requests.post("https://jsonplaceholder.typicode.com/todos/1")
```

Related Pages:

https://docs.python.org/2/howto/urllib2.html

Parameters

- **url** – The external URL to the REST service
- **data** – Optional. Must be an object specifying additional data to send to the server, or None if no such data is needed
- **encoding** – Optional. The encoding of this request (defaults to 'utf-8'). This encoding will be used to percent-encode the URL and to convert the body to str (if given as unicode)
- **headers** – Optional. Should be a dictionary, and will be treated as if add_header() was called with each key and value as arguments
- **proxy** – Optional.

Returns

The content of the REST call as a String

proxy(*username: str*, *password: str*, *proxy_host: str*, *proxy_port: int*, *protocols: Optional[list] = None*)

Set the proxy connexions for the Python requests.

Parameters

- **username** – The username.
- **password** – The user password.
- **proxy_host** – The proxy server hostname.
- **proxy_port** – The proxy server port.
- **protocols** – Protocols for the proxy. Default [('http', 'http://'), ('https', 'https://')]

static request(*url: str*, *data=None*, *method: Optional[str] = None*, *encoding: str = 'utf-8'*, *headers: Optional[dict] = None*, *unverifiable: bool = False*, *proxy: Optional[dict] = None*)

Run a external REST call using a specific method (PUT, DELETE, OPTIONS, HEAD, PUT, PATCH...).

This should be used to retrieve data from external services. If data should be extracted using an existing internal service the method query is better as it will embedded the security aspects

Usage:

```
json.loads(PyRest().request(r"https://jsonplaceholder.typicode.com/todos/1",␣
↪method="GET"))
```

Related Pages:

https://2.python-requests.org/en/master/api/ https://docs.python.org/3/library/urllib.request.html

Parameters

- **url** – Should be a string containing a valid URL
- **method** – Optional. Must be an object specifying additional data to send to the server, or None if no such data is needed
- **data** – Optional. Must be an object specifying additional data to send to the server, or None if no such data is needed
- **encoding** – String. Optional. the encoding of this request (defaults to 'utf-8'). This encoding will be used to percent-encode the URL and to convert the body to str (if given as unicode)
- **headers** – Optional. Should be a dictionary, and will be treated as if add_header() was called with each key and value as arguments
- **unverifiable** – Optional. Should indicate whether the request is unverifiable, as defined by RFC 2965
- **proxy** – Optional.

Returns

The content of the REST call as a String

static webscrapping(*url: str*, *data=None*, *encoding: str = 'utf-8'*, *headers: Optional[dict] = None*, *unverifiable: bool = False*, *proxy: Optional[dict] = None*)

Create a REST request with the appropriate header to mimic a browser GET request.

Usage:

```
PyRest().webscrapping(r"https://doc.scrapy.org/en/latest/topics/request-
↪response.html")
```

Parameters

- **url** – Should be a string containing a valid URL
- **data** – Optional. Must be an object specifying additional data to send to the server, or None if no such data is needed
- **encoding** – Optional. the encoding of this request (defaults to 'utf-8'). This encoding will be used to percent-encode the URL and to convert the body to str (if given as unicode)

- **headers** – Optional. Should be a dictionary, and will be treated as if add_header() was called with each key and value as arguments
- **unverifiable** – Optional. Should indicate whether the request is unverifiable, as defined by RFC 2965
- **proxy** – Optional.

Returns
The HTML content of the REST call as a String

5.8.2.4.6 Database

class epyk.core.py.PySql.**SqlConn**(*family*, *database=None*, *filename=None*, *model_path=None*, *reset=False*, *migrate=True*, *tables_scope=None*, ***kwargs*)

column(*table_name*, *column_name*)

Return a sqlAlchemy column object. This can be useful in the where clauses

Usage:

```
select('table').where([db.column("table", 'column') == 'X')
```

Parameters

- **table_name** – The database table name
- **column_name** – The column name

Returns
Python column object

columns(*table_name*)

Return the list of columns defined in the selected database.

Usage:

```
page.db().columns("table_name")
```

Parameters
table_name –

Returns
A python object with the list of tables

commit()

Commit the current transaction.

THis will save the results in the database

Returns
The SQL object

property count

Return the number of records.

Usage:

```
print(db.select("table").count)
```

Returns
The number of records.

data(*limit=None*)

Returns the results of the select statement previously instantiated in a pandas dataframe.

Usage:

```
rptObj.db().getData()
```

Parameters
limit – Optional. The number of records to be returned.

Returns
A pandas dataframe

delete(*table_name*)

Create a SQL delete SQL statement.

Usage:

```
page.db().delete('table1')
```

Related Pages:

https://docs.sqlalchemy.org/en/13/core/dml.html

Parameters
table_name – Optional. The database table name.

Returns
self

distinct(*columns=None*)

Parameters
columns – the list of columns.

Returns
self for the chaining.

drop(*table_name*, *validate=True*)

Delete the table from the database. The pre check can be disabled and the table will be automatically created again when the report will be triggered again. No extra function to create a table in the framework this is done by the SQL framework itself

Usage:

```
page.db().drop('test')
page.db().drop('test', withCheck=False)
```

Related Pages:

https://docs.sqlalchemy.org/en/13/core/connections.html#sqlalchemy.engine.ResultProxy

Parameters

- **table_name** – The database table name
- **validate** – Boolean, Validation check before dropping the table

Returns
Python column object

execute()

Execute the current SQL query.

Related Pages:

https://docs.sqlalchemy.org/en/13/core/connections.html#sqlalchemy.engine.ResultProxy

Returns
The SQL Result proxy

first(*items=False*)

Return only the first items from the SQL query.

Usage:

```
print(db.first())
print(db.first(items=True))
```

Parameters
items – Return a dictionary or a list of data.

Returns
None or the first record.

force_create()

Force the creation of the database in the given project.

Returns
The python Sql object

get_last_id(*table_name*)

Return the table last primary key ID. This will return an error if the table does not have a primary key defined in its schema.

Usage:

```
db.get_last_id("table")
```

Parameters
table_name – The table name.

Returns
Return the last row ID or -1

insert(*table_name*, *records*, *commit=False*, *col_user_name=None*, *clean_rec=False*, *getIdCol=False*)

insert a list of records to a table.

Usage:

```
db.insert('table1',[{'name': 'test'}], commit=True)
db.insert("table", {"user_name": "Test", "data": "test"}, commit=True)
```

Related Pages:

https://docs.sqlalchemy.org/en/13/core/dml.html https://docs.sqlalchemy.org/en/13/core/dml.html

Parameters

- **table_name** – The database table name.
- **records** – The list of dictionaries with the data to inserts.
- **commit** – Optional. Boolean to commit the insert. Set to False by default.
- **col_user_name** –
- **clean_rec** – Optional. Remove the key in the dictionaries which are not related to the table. Set to False.
- **getIdCol** –

Returns
The python object itself

limit(*n*)

Limit the number of records returned.

Parameters
n – Integer, the number of records.

Returns
The SQL Query object.

load_data_file(*filename*, *path*, *reset=False*, *new_tables=None*)

Load a python sql file to the local database. This will only add records and then commit the changes.

Those data should not be sensitive ones if they are store and committed to the folder.

Parameters

- **filename** –
- **path** –
- **reset** –
- **new_tables** –

Returns
The Python SQL object.

load_schema(*filename=None*, *model_path=None*, *reset=False*)

Function that takes care of initialising the DB. Please note that some column names are prohibited such as lst_mod_dt.

Parameters

- **filename** – Optional. The python module used to get the database schema.
- **model_path** – Optional. The python path with the model.
- **reset** – Optional. Flag to reset the database. THis will emtpy the tables.

property records

Return the records.

Usage:

```
for rec in db.select("table").records:
  print(rec)
```

Returns
A iterator for the SQL result

select(*table_name=None*, *columns=None*)

Create a SQL statement.

Usage:

```
page.db().select(["worldcup_teams"])
```

Documentation

http://docs.sqlalchemy.org/en/latest/core/selectable.html http://docs.sqlalchemy.org/en/latest/core/sqlelement.html

Parameters

- **table_name** – String. Optional. The database table name.
- **columns** – String. Optional. The list of columns.

Returns
self

table(*table_name*)

Return a sqlAlchemy table object. This can be useful in the where clauses.

Usage:

```
db.table('table1')
```

Parameters
table_name – The table name.

Returns
Python table object

table_clone(*old_table*, *new_table*, *mapping=None*)

Helps to migrate between two tables. The mapping argument is used in case the column names differ between the two tables.

Parameters

- **old_table** – A SQLAlchemy table class in the current database model
- **new_table** – A SQLAlchemy table class
- **mapping** – Optional. A dictionary for the column names.

Returns
self for the chaining.

table_create(*table_name*, *table_def*, *reset=False*)

Create a table in the database.

Usage:

```
db = rptObj.db(database=r"newTest.db")
tableDef = [sqlalchemy.Column('environment', sqlalchemy.String, nullable=False),
            sqlalchemy.Column('report', sqlalchemy.String, nullable=False),]
db.createTable('newTable', tableDef)
```

Parameters

- **table_name** – The table name.
- **table_def** –
- **reset** –

table_create_from_file(*filename*, *table_name*, *records=None*, *path=None*, *reset=False*, *commit=True*)

Usage:

```
df = page.py.file(htmlCode=r"IBRD_Balance_Sheet__FY2010.csv").read()
db = page.py.db(database=r"newTest.db").forceCreate()
dbObj.createTable('myschema.py', 'mytable', records=df)
```

Parameters

- **filename** –
- **table_name** –
- **records** –
- **path** –
- **reset** –
- **commit** –

Returns

The Python SQL object.

table_empty(*table_name*)

This function will empty an existing table.

Usage:

```
db.emptyTable('test')
```

Parameters

table_name – A string with the datable name.

Returns

self

table_migrate(*from_table*, *to_table*)

Copy data from one table to another.

Parameters

- **from_table** – The table name.
- **to_table** – The destination table name.

Returns
The Python SQL object

property tables

Return the list of tables defined in the selected database

Usage:

```
page.db().tables()
```

Returns
A python object with the list of tables

update(*table_name*, *values*)

Create a delete SQL statement.

Usage:

```
page.db().update('table1', {db.column('test', 'name'): 'user'})
```

Documentation

http://docs.sqlalchemy.org/en/latest/core/selectable.html http://docs.sqlalchemy.org/en/latest/core/sqlelement.html https://docs.sqlalchemy.org/en/13/core/dml.html

Parameters

- **table_name** – The table name.
- **values** –

Returns
self for the chaining.

where(*stmts*)

Add a where clause to the SqlAlchemy query.

Usage:

```
db.select().where([db.column("table", 'column') == 'X')
```

Parameters
stmts – The SQL where statement.

Returns
The python object itself

class epyk.core.py.PySql.**SqlConnOdbc**(*database=None*, ***kwargs*)

Connector to Access databases. This connector will allow you to create, store and retrieve data from any MS Access Database. This will return the SQL database object. It will be possible to reuse the same syntax to then interact with it.

This would need the ODBC driver available here: https://www.microsoft.com/en-us/download/confirmation.aspx?id=13255

property tables

return:

class epyk.core.py.PySql.**SqlConnNeo4j**(*host=None*, *port=None*, *usr=None*, *pwd=None*)

alias(*aliases*)

Defines a set of aliases that will appear as WITH a, b, c, d as count(id) The aliases argument will be defined as follows: [‘a’, ‘b’, ‘c’, {‘d’: ‘count(id)’}]

clear()

Clears all nodes and edges from the Database

compose(*query*)

Simply joins the query clauses all together

foreach(*conditions*)

link(*labels=''*, *attr=None*, *direction='from'*)

Adds the edge definition to the query

node(*name=''*, *labels=None*, *attr=None*)

Adds the node pattern to the query

5.8.2.4.7 Cryptography

class epyk.core.py.PyCrypto.**PyCrypto**(*src: Optional[PageModel] = None*)

classmethod b64encode(*text: str*, *salt: Optional[str] = None*)

Usage:

```
PyCrypto.b64encode("Test")
```

Related Pages:

https://cryptography.io/en/latest/hazmat/primitives/key-derivation-functions/

Parameters

- **text** (*str*) – The text to be encrypted.
- **salt** (*Optional[str]*) – Optional. The salt used for the encryption (default None).

classmethod cryptKeyPairs(*msg*, *key1*, *key2*)

Usage:

```
:param msg:
:param key1:
:param key2:
```

decrypt(*encrypted: str*, *token: Optional[str] = None*, *salt: Optional[str] = None*, *label: str = ''*)

This function will use the two keys in order to decrypt the data. In case of failure this function will raise an exception.

Usage:

```
PyCrypto().decrypt(encrypted)
```

Parameters

- **encrypted** (*str*) – The encrypted data.
- **token** (*Optional[str]*) – Optional. The token used to encrypt the data.
- **salt** (*Optional[str]*) – Optional. The salt id.
- **label** (*str*) – Optional. A label used to store the reference in the log file.

Returns
A string with the decrypted data.

classmethod decryptKeyPairs(*encrypted*, *key1*, *key2*)

Usage:

```
:param encrypted: The encrypted data
:param key1:
:param key2:
```

encrypt(*data: str*, *token: Optional[str] = None*, *salt: Optional[str] = None*)

This function will use the cryptography to ensure a secured encryption of the different credential and private data.

This can be also used to protect data from the report. In order to ensure the right privacy please do not store the token and the salt in the framework.

Parameters

- **data** (*str*) – The data to be encrypted.
- **token** (*Optional[str]*) – Optional. The token used to encrypt the data.
- **salt** (*Optional[str]*) – Optional. The salt id.

Returns
The encrypted data with the salt used.

property getId

Return a unique token.

Usage:

```
PyCrypto.getId
```

Related Pages:

https://docs.python.org/2/library/uuid.html

Returns
A unique ID (based on the timestamp

property key

Return a Fernet key.

Usage:

```
PyCrypto().key
```

Related Pages:

https://cryptography.io/en/latest/fernet/

5.8.2.4.8 Extension

class epyk.core.py.PyExt.**PyExt**(*page: PageModel*)

property crypto: *PyCrypto*

Property to the internal cryptography module.

This will rely on the package cryptography. This should be added to the python environment before using it. This package can be installed using the usual pip install function.

Related Pages:

https://pypi.org/project/cryptography/ https://cryptography.io/en/latest/

Return type
PyCrypto.PyCrypto

property dates: *PyDates*

This is a simple wrapper to the datetime Python module.

No external package is required to use this interface.

Usage:

```
page.py.dates.today()
```

Returns
A PyDate object

Return type
PyDates.PyDates

static encode_html(*text: str*, *encoding: str = 'utf-8'*)

Parameters

- **text** – a test to encode with HTML special symbols.
- **encoding** – Optional. teh encoding type.

static format_money(*text: float*, *digits: int = 0*, *thousand_sep: str = ','*, *decimal_sep: str = '.'*, *symbol: str = '£'*, *format: str = '%s%v'*)

Parameters

- **text** –
- **digits** – Optional.
- **thousand_sep** – Optional.
- **decimal_sep** – Optional.
- **symbol** – Optional.

- **format** – Optional.

static format_number(*value: float*, *digits: int = 0*, *thousand_sep: str = ','*, *decimal_sep: str = '.'*)

Parameters

- **value** –
- **digits** –
- **thousand_sep** –
- **decimal_sep** –

property geo: *PyGeo*

Property to some predefined Geolocation functions.

Return type
PyGeo.PyGeo

import_lib(*lib_name: str*, *folder: str = 'libs'*, *report_name: Optional[str] = None*, *path: Optional[str] = None*)

Import dynamically a python module.

Usage:

```
page.py.import_lib("test.py", folder="tables", path=r"filePath")
```

Parameters

- **lib_name** – The python module name.
- **folder** – Optional. The internal folder with the libraries to be imported.
- **report_name** – Optional. the report name in which the library is defined. Default current folder.
- **path** – Optional. the path to be added to the classpath.

Returns
The imported Python module.

import_package(*package: str*, *sub_module: Optional[str] = None*)

Install the external Python package. This can automatically install it from the Python Index online repository is missing.

Usage:

```
>>> PyExt().import_package("sqlalchemy").__name__
'sqlalchemy'
```

Parameters

- **package** – The Python Package Name.
- **sub_module** – Optional. The sub module or class within the package.

Returns
The installed Python module.

property markdown: *MarkDown*

Property to the Markdown String conversion.

Return type
PyMarkdown.MarkDown

property requests: *PyRest*

This is a simple wrapper to the internal Python modules to run REST calls.

No external package is required to use this interface.

Returns
A PyRest object.

Return type
PyRest.PyRest

5.8.2.4.9 Geo

class epyk.core.py.PyGeo.**PyGeo**(*page: Optional[PageModel] = None*)

static distance(*lat1: float*, *lon1: float*, *lat2: float*, *lon2: float*, *unit: str = 'km'*)

Calculate the great circle distance between two points on the earth (specified in decimal degrees) 3956

Related Pages:

https://en.wikipedia.org/wiki/Haversine_formula

Parameters

- **lat1** – Float.
- **lon1** – Float.
- **lat2** – Float.
- **lon2** – Float.
- **unit** – String. mi / km. Default km

5.8.2.4.10 Hash

class epyk.core.py.PyHash.**SipHash**(*c: float = 2*, *d: float = 4*)

Generate a unique hash ID from the given string. This is supposed to be unique with a minimum expectation of collisions. This module is only in charge of producing the hash ID and the potential collisions should be monitored in the environment by the users.

Related Pages:

https://pypi.org/project/siphash/

hashId(*text: str*)

Produce a unique ID for a given string. This can be used to replace the internal numbers.

Usage:

```
>>> SipHash().hashId("Test")
3169529217224722230
```

Related Pages:

https://github.com/bozhu/siphash-python

Parameters
text – String. The String to be hashed.

5.8.2.5 Data Interface

Data is key for Visualisation so this is why Epyk provides ways to retrieve / connect the data.

5.8.2.5.1 Data Transformers

Those will transform the data to fit the format expected by the various containers. Basically this is the format expected in the HTML components in the **__init__** or in the **build** method.

Those functions can be used from the page object from **page.data** or directly from the module by using **pk.**

This module should be moved to a dedicated package in future releases to make the use on the backend side lighter.

5.8.2.5.2 Interface Documentation

class epyk.core.data.Data.**DataJs**(*page: PageModel*)

list(*js_code: str*, *data*)
Transform a Python object to a JavaScript list.

Parameters
- **js_code** – The Javascript variable name
- **data** – Object passed to the Javascript layer

number(*js_code: str*, *value*)
Transform a Python number to a JavaScript one.

Parameters
- **js_code** – The Javascript variable name
- **value** – Object passed to the Javascript layer

object(*js_code: str*, *value: float*)
Transform a Python object to a JavaScript object.

Parameters
- **js_code** – The Javascript variable name
- **value** – Object passed to the Javascript layer

record(*js_code: Optional[str] = None*, *data=None*) → DataGlobal
Interface to transform Python records to Javascript objects.

This will allow interactivity of the various HTML components.

Usage:

```
js_data = page.data.js.record(js_code="myData", data=randoms.languages) #␣
↪Create JavaScript data
filter1 = js_data.filterGroup("filter1") # Add a filter object

# Add a dropdown box to drive the data changes in the charts
select = page.ui.select([
  {"value": 'name', 'name': 'name'}, {"value": 'type', 'name': 'code'}],␣
↪options={"empty_selected": False})

# Create HTML charts
bar = page.ui.charts.chartJs.bar(randoms.languages, y_columns=["rating", 'change
↪'], x_axis='name')
pie = page.ui.charts.chartJs.pie(randoms.languages, y_columns=['change'], x_
↪axis='name')

select.change([
  bar.build(filter1.group().sumBy(['rating', 'change'], select.dom.content),␣
↪options={"x_axis": select.dom.content}),
  pie.build(filter1.group().sumBy(['change'], select.dom.content), options={"x_
↪axis": select.dom.content}),
])
```

Parameters

- **js_code** – Optional. The Javascript variable name
- **data** – Object passed to the Javascript layer

server(*hostname: str*, *port: int = 8080*) → ServerConfig

Configuration data for server interaction.

This will only help on centralising the configuration in the final page.

Parameters

- **hostname** – The server hostname
- **port** – Optional. The server port

class epyk.core.data.Data.**DataSrc**(*page: Optional[PageModel] = None*)

property bb: C3

Interface to Billboard data transformation.

This will convert Python object to input data for Billboard charts.

property c3: C3

Interface to C3 data transformation.

This will convert Python object to input data for C3 charts.

property chartJs: ChartJs

Interface to chartJs data transformation.

This will convert Python object to input data for chartJs charts.

property db

Interface to the internal database wrapper.

Return type
DataDb.DataDb

from_cache(*code: str*, *is_secured: bool = False*, *report_name: Optional[str] = None*)

Loads data from a cached files.

Parameters

- **code** – The code for the data
- **is_secured** – Optional, boolean to set if the file should be secured. Default False
- **report_name** – Optional. the environment in which cache are stored. Default current one

Returns
Return the data

from_file(*filename*, *isSecured=False*, *report_name=None*)

Return the file.

Parameters

- **filename** – The filename.
- **isSecured** – Optional. Check if the file is secured or not.
- **report_name** – Optional. The environment with the file.

Returns
The file object

from_get(*url*, *data=None*, *code=None*)

from_source(*http_data*, *file_name*, *func_name='getData'*, *report_name=None*, *folder='sources'*, *path=None*)

Returns data from a internal data service defined in the sources folder.

Parameters

- **http_data** – The input data for the service
- **file_name** – The service file name
- **func_ame** – Optional, the function name in the service. Default getData
- **report_name** – Optional, the report name. Default the current one
- **folder** – Optional, the folder with the services. Default sources
- **path** – Optional, the path to be added to the python system path

property google: Google

Interface to Google data transformation.

This will convert Python object to input data for Google charts.

grpc(*service_name*, *path*, *module*, *host='localhost'*, *port=50051*)

Interface to a GRPC server.

Usage:

```
grpc = page.data.grpc(serviceName="GreeterStub", module="helloworld_pb2_grpc",␣
↪path="")
data = grpc.imp("helloworld_pb2").HelloRequest(name="Test")
print(grpc.request("SayHello", data))
```

Related Pages:

https://grpc.io/docs/tutorials/basic/python/ https://grpc.io/docs/quickstart/python.html

Parameters

- **service_name** – The Service name (the class name in the python module)
- **path** – The path with the GRPC features
- **module** – The python module name for the service
- **host** – The service host name (e.g localhost)
- **port** – The service port

Returns
A GRPC wrapped object

Return type
DataGrpc.DataGrpc

property js: *DataJs*

Interface to standard JavaScript transformation.

property nvd3: NVD3

Interface to NVD3 data transformation.

This will convert Python object to input data for NVD3 charts.

pdf(*filename*, *path=None*)

Read a pdf file

This will require an external module PyPDF2.

Usage:

```
data = page.data.pdf("document.pdf", r"")
data.getPage(0)
```

Related Pages:

https://www.geeksforgeeks.org/working-with-pdf-files-in-python/

Parameters

- **filename** – The pdf file name
- **path** – The file path

Returns
A pdf object from PyPDF2

property plotly: Plotly

Interface to Plotly data transformation.

This will convert Python object to input data for Plotly charts.

rest(*url*, *data=None*, *method=None*, *encoding='utf-8'*, *headers=None*, *unverifiable=False*, *proxy=None*)

Interface to a REST server.

Test with a online server can be done here https://jsonplaceholder.typicode.com/

Usage:

```
page.data.rest("https://jsonplaceholder.typicode.com/posts/1", method="PUT")
```

Related Pages:

https://jsonrpcclient.readthedocs.io/en/latest/api.html

Parameters

- **url** – The REST service url
- **data** – The input data for the service

rpc(*url*, *data=None*, *headers=None*, *is_secured=False*)

Interface to a RPC server.

This is using the external python package jsonrpcclient (https://jsonrpcclient.readthedocs.io/en/latest/)

Related Pages:

https://en.wikipedia.org/wiki/Rapid_control_prototyping https://gurujsonrpc.appspot.com/ https://jsonrpcclient.readthedocs.io/en/latest/

Parameters

- **url** – The RPC service url
- **data** – The input data for the service

rss(*url*, *proxy=None*, *method='GET'*)

Entry point to retrieve RSS feeds.

This module will require beautifulsoup4 as external package

Usage:

```
xml_soup = rptObj.data.rss("http://feeds.reuters.com/reuters/businessNews")
for title in xml_soup.findAll('title'):
  print(title)
```

Related Pages:

https://pypi.org/project/beautifulsoup4/

Parameters

- **url** – The url of the html page
- **method** – Optional, The request method. Default method GET

Returns

A xml object

save_cache(*data*, *code*, *is_secured: bool = False*, *if_missing: bool = True*)

Temporary files are saved in a pickle manner in order to avoid having to parse those files again.

Parameters

- **data** – The data to be saved.
- **code** – The code for the data.
- **is_secured** – Optional. boolean to set if the file should be secured. Default False.

- **if_missing** – Optional. boolean to set the fact that caches are only saved if missing.

soap(*wsdl*)

Interface to a SOAP server.

This function will require an external python package zeep to use SOAP

Usage:

```
soap = page.data.soap("http://www.soapclient.com/xml/soapresponder.wsdl")
soap.Method1('Zeep', 'is cool')
```

Related Pages:

https://en.wikipedia.org/wiki/SOAP https://python-zeep.readthedocs.io/en/master/

Parameters
wsdl – The wsdl service url

Return type
zeep.service

Returns
The SOAP services

socket(*data*, *host='localhost'*, *port=5000*, *encoding='utf-8'*)

Parameters

- **data** – The input data for the service
- **host** – The service host name (e.g localhost)
- **port** – The service port
- **encoding** –

property vis: Vis

Interface to Vis data transformation.

This will convert Python object to input data for Vis charts.

webscrapping(*url*, *parser='html.parser'*, *proxy=None*, *method=None*)

Entry point to retrieve data from any website.

This module will require beautifulsoup4 as external package

Usage:

```
page.data.webscrapping("https://www.w3schools.com/colors/default.asp")
xml_soup.findAll('title')
```

Related Pages:

https://pypi.org/project/beautifulsoup4/

Parameters

- **url** – The url of the html page
- **parser** – The output data parser
- **proxy** –

- **method** –

Returns
A xml object

5.8.2.6 Web Framework Interfaces

5.8.2.7 Example

```
import epyk as pk

page = pk.Page()
page.ui.title("This is a title")
paragraph = page.ui.texts.paragraph("This is a paragraph")
paragraph.click([
    page.js.console("This is a log on the JavaScript side")
])
page.outs.html()
```

5.8.2.8 Technical Documentation

class epyk.core.Page.**Report**(*inputs: Optional[dict] = None*, *script: Optional[str] = None*)

Main entry point for any web UI.

This class will store all the HTML components, JavaScript fragments and CSS definition in order to then render a rich web page.

This will allow Python to access the components before the JavaScript on the fly computation to change then according to the input data.

This class will also interface with plain Vanilla JavaScript feature to allow the design and definition of events and / or interactions. Most of the Web documentation in this framework is either coming from w3School or from the various external packages.

property apps: AppRoute

Change the report to a web application.

This will add extra features available on the target framework. For example this HTML page can be transformed to an Angular app, a React App or a Vue one.

Usage:

```
page = Report()
page.apps.react
```

property auth: Auth

Auth interface to allow easy sign-in pages.

Usage:

```
page = Report()
page.auth.
```

Related Pages:

https://developers.google.com/identity/sign-in/web/sign-in

Returns
Python Auth Object.

property body: Body

Property that returns the Body element of the HTML page.

Usage:

```
page = Report()
page.body.onReady([page.js.alert("Loading started")])
```

property css: Catalog

Returns the set of CSS Classes for the HTML report.

Usage:

```
page = Report()
page.css.
```

property data: *DataSrc*

Python internal data source management.

This can be extended by inheriting from this epyk.core.data.DataSrc.DataSrc and adding extra entry points.

Usage:

```
page = Report()
```

Returns
The framework available data source

dumps(*result: dict*)

Function used to dump the data before being sent to the Javascript layer.

This function relies on json.dumps with a special encoder in order to work with Numpy array and Pandas data structures.

As NaN is not valid on the Json side those object are not allowed during the dump. It is advised to use fillna() in your script before returning the data to the framework to avoid this issue.

Usage:

```
page = Report()
page.dumps(result)
```

Related Pages:

https://docs.python.org/2/library/json.html

Parameters
result – The python dictionary or data structure

Returns
The serialised data

property entities: Entities

Shortcut to the HTML Entities.

Those can be added in string in order to improve the render of a text.

Usage:

```
page = Report()
page.ui.text(page.entities.non_breaking_space)
```

Related Pages:

https://www.w3schools.com/html/html_entities.asp

framework(*name: str*)

Flag to change the way code is transpiled in order to fit with the destination framework.

By default the code transpiled will be used from a browser in plain Vanilla Js but this will be extended to then be compatible with other framework in order to simplify the path to production and the collaboration between teams.

Many framework will be compatible like React, Angular, Vue but also some features will be exposed to Kotlin for mobile generation.

This work is still in progress.

Usage:

```
page = Report()
page.ui.text("This is an example")
page.framework("Vue")
```

Parameters

name – The destination framework for the page

get_components(*html_codes: Union[list, str]*)

Retrieve the components based on their ID.

This should be used when the htmlCode is defined for a component.

Usage:

```
page = Report()
page.ui.button(htmlCode="Button")
but = page.get_components(["Button"])
```

Parameters

html_codes – The reference of the HTML components loaded on the page

property headers: Header

Property to the HTML page header.

Usage:

```
page = pk.Page()
page.headers.meta.viewport({"width": "device-width"})
```

(continues on next page)

(continued from previous page)

```
# Use the default DEV icon.
page.headers.dev()
```

property icons: IconModel

Change the icons framework used in the page. Defaults.py in the CSS module is to change the framework for all the page generated by the framework.

Usage:

```
page = pk.Page()
page.icons.family = "bootstrap-icons"
icons = page.ui.menus.icons([
    "bi-1-circle-fill",
    "bi-search-heart-fill",
    "bi-x-circle-fill",
])
```

property imports: *ImportManager*

Return the report/import_manager, which allows to import automatically packages for certain components to run.

By default the imports are retrieved online from CDNJS paths. This can be changed by loading the packages locally and switching off the online mode.

Usage:

```
page = Report()
page.imports.setVersion(page.imports.pkgs.popper_js.alias, "1.00.0")
```

property js: *JsBase*

Go to the Javascript section. Property to get all the JavaScript features.

Most of the standard modules will be available in order to add event and interaction to the Js transpiled.

Usage:

```
page = Report()
page.js.console.log("test")

page.js.accounting.add_to_imports()
page.js.moment.add_to_imports()
```

Related Pages:

https://www.w3schools.com/js/default.asp

node_modules(*path: str*, *alias: Optional[str] = None*, *install: bool = False*, *update: bool = False*)

Usage:

```
:param path: Optional. The nodeJs path.
:param alias: Optional.
:param install: Optional.
:param update: Optional.
```

onDOMContentLoaded(*js_funcs: Union[str, list]*, *profile: Optional[Union[bool, dict]] = False*)

The DOMContentLoaded event fires when the HTML document has been completely parsed, and all deferred scripts (<script defer src="…"> and <script type="module">) have downloaded and executed. It doesn't wait for other things like images, subframes, and async scripts to finish loading.

Usage:

```
page = ek.Page()
div = page.ui.div("Simple Div")
page.onDOMContentLoaded([div.dom.css({"border": "1px solid red"})])
```

Related Pages:

https://developer.mozilla.org/fr/docs/Web/API/Window/DOMContentLoaded_event

Parameters

- **js_funcs** – The Javascript functions to be added to this section
- **profile** – Optional. A flag to set the component performance storage

property outs: *PyOuts*

Link to the possible output formats for a page.

This will transpile the Python code to web artifacts. Those outputs are standard outputs files in web development.

The property framework should be used to link to other web framework.

Usage:

```
page = Report()
page.ui.text("This is an example")
page.outs.html()
```

property properties: **Properties**

Property to the different Page properties JavaScript and CSS.

property py: *PyExt*

Python external module section.

Those are pre-defined Python function to simplify the use of the various components.

Usage:

```
page = Report()
page.py.dates.today()
```

Related Pages:

https://www.w3schools.com/js/default.asp

register(*ext_components: Union[list, dict]*)

This function allows you to register external Components (namely coming from Pyk Reports) by registering them you this will engrave the object within your report.

The example below will add obj1 and obj2 from an external pyk report previously required, then create a div and then add obj3 from an external file.

Usage:

```
page = Report()
page.register([obj1, obj2])
page.ui.div('this is a div')
page.register(obj3)

# To register a standalone component
import epyk as ek

class TestComponent(ek.standalone):
  selector = "test-color"
  component_url = "./assets/inputs/test-input.js"
  style_urls = ["./assets/inputs/test-input.css"]
  template_url = "./assets/inputs/test-input.html"

# Add the extra components to the schema
page.register([TestComponent])
```

Parameters
ext_components – The external components to be added

property root__script: str

Return the name of the script creating the Page object.

property skins: Skins

Add a special skin to the page.

This could be used for special event or season during the year (Christmas for example).

Usage:

```
page = pk.Page()
page.ui.text("Hello World !")
page.skins.rains()
page.outs.html_file(name="test", print_paths=True)
```

property symbols: Symboles

Shortcut to the HTML symbols.

Those can be added in string in order to improve the render of a text.

Usage:

```
page = Report()
page.ui.text(page.symbols.shapes.BLACK_SQUARE)
```

Related Pages:

https://www.w3schools.com/html/html_symbols.asp https://www.w3schools.com/charsets/ref_utf_math.asp

property theme: <module 'epyk.core.css.themes.Theme' from '../epyk/core/css/themes/Theme.py'>

Return the currently used report/theme for the report.

Usage:

```
page = Report()
page.theme = themes.ThemeBlue.Blue
```

property ui: *Components*

User Interface section.

All the components which can be used in the dashboard to display the data. Within this object different categories of items can be used like (list, simple text, charts...).

Usage:

```
page = Report()
page.ui.text("This is a text")
```

Related Pages:

https://www.w3schools.com/html/default.asp

property web: *WebComponents*

User Interface section.

All the components which can be used in the dashboard to display the data. Within this object different categories of items can be used like (list, simple text, charts...).

Usage:

```
page = Report()
page.web
```

Related Pages:

https://www.w3schools.com/html/default.asp

5.8.3 Themes

5.8.4 HTML Built-Ins

5.8.5 CSS Built-Ins

- CSS Properties.
- CSS Classes (Catalog).
- Effects.
- Themes.

5.8.5.1 Core Modules

5.8.5.1.1 CSS Class

class epyk.core.css.styles.GrpCls.**ClassPage**(*component: Optional[HtmlModel] = None*, *page: Optional[PageModel] = None*)

property add_classes: Catalog

Property to get access to the catalog of CSS classes to be added to the HTML class tag component.

contenteditable() → CssPageContentEditable

Set the border color of the editable content according to the selected theme.

Related Pages:

https://www.w3schools.com/howto/howto_css_contenteditable_border.asp

property css: Body

Property to the underlying CSS definition to be added to the style HTML tag of a component.

property css_class: CatalogDiv

The internal class used to put a custom Style to this object.

Only 1 CSS class can be added to an HTML object.

custom_class(*css_attrs: dict*, *classname: Optional[str] = None*, *selector: Optional[str] = None*, *is_class: bool = True*, *important: bool = False*) → dict

This will create dynamic CSS class which will not be added to any component.

The class definition can then be reused in multiple components. The CSS style of the body can only be done using predefined classes or inline CSS.

TODO: Enable the important for nested css_attrs.

Usage:

```
page.body.style.custom_class(css_attrs={"_attrs": {"fill": 'red'}}, classname=
↪'nvd3.nv-pie .nv-pie-title')
```

Parameters

- **css_attrs** – Nested dictionary with the different attributes
- **classname** – Optional. The classname in the CSS definition
- **selector** – Optional. The class selector (if it is not a classname using . but a strict definition)
- **is_class** – Optional. Automatically transform the name to a CSS class definition by adding a dot
- **important** – Optional. Specify if the style is important

property defaults

The Default CSS Attributes in the framework.

property define_classes: Catalog

Property to get access to the catalog of CSS classes to be loaded in the page.

Those classes will not be automatically added to any HTML tag and they need to be added manually.

fit_screen_height(*margin_size: Optional[int] = None*)

Parameters
margin_size – Optional.

get_classes()

Returns the list of Internal and bespoke classes to be added to the class HTML table on the component.

get_classes_css()

Attach the predefined styles for the scrollbar and selection then return all the classes.

property globals: GlobalStyle

Reference for all the global setting in the page.

This should be changed in order to be the proxy to the Default CSS settings in the framework. Changing this should only impact the report default settings.

TODO: Extend to more than the font

property moz_selection: CssWebkitMozSelection

Selection predefined style (background color based on the selected theme).

Related Pages:

https://www.w3schools.com/howto/howto_css_text_selection.asp

property scrollbar_webkit: CssWebkitScrollbar

Scrollbars predefined styles.

property scrollbar_webkit_thumb: CssWebkitScrollbarThumb

Scrollbars predefined styles.

property scrollbar_webkit_track

Scrollbars predefined styles.

property selection: CssWebkitSelection

Selection predefined style (background color based on the selected theme).

Related Pages:

https://www.w3schools.com/howto/howto_css_text_selection.asp

5.8.5.1.2 CSS Style

class epyk.core.css.styles.classes.CssStyle.**Style**(*page: PageModel*, *css_ovrs: Optional[dict] = None*, *selector_ovrs: Optional[dict] = None*, *html_id: Optional[str] = None*, *component: Optional[HtmlModel] = None*)

property active: Data

Selects the active link.

Related Pages:

https://www.w3schools.com/cssref/sel_active.asp

property after: Data

Insert something after the content of each <p> element.

Related Pages:

https://www.w3schools.com/cssref/sel_after.asp

animation(*name=None*, *attrs=None*, *duration=2*, *delay=None*, *iteration='infinite'*, *timing_fnc=None*, *effect=None*, *fill_mode=None*)

The @keyframes rule specifies the animation code.

The animation is created by gradually changing from one set of CSS classes to another.

Usage:

```
page.ui.button("Ok").style.css_class.animation('test', {
  "from": {"border-color": "white"},
  "to": {"border-color": "red"},
})
```

Related Pages:

https://www.w3schools.com/cssref/css3_pr_animation-keyframes.asp https://www.w3schools.com/css/css3_animations.asp

Parameters

- **effect** – Effect Class.
- **name** – String. Required. Defines the name of the animation.
- **attrs** – String. Required. Percentage of the animation duration.
- **duration** –
- **delay** –
- **iteration** –
- **timing_fnc** –
- **fill_mode** – String Specify the fill mode (whether the style should go back to its original position or

something else etc…

property before: Data

Insert something before the content of each <p> element.

Related Pages:

https://www.w3schools.com/cssref/sel_before.asp

property checked: Data

Selects every checked <input> element.

Related Pages:

https://www.w3schools.com/cssref/sel_checked.asp

css(*key: Union[str, dict]*, *value: Optional[str] = None*, *important: bool = False*, *change: bool = True*)

Add a CSS attribute to a class.

Parameters

- **key** (*Union[str, dict]*) – The CSS attribute.
- **value** (*str*) – Optional. The CSS value.
- **important** (*bool*) – Optional. The level of priority for this attribute.

- **change** (*bool*) – Optional. A flag to specify the state of the CSS class.

customize()

Define for child classes to define some CSS attributes. This parent class is just there to define the structure of all the child ones, it is not used directly.

property disabled: Data

Selects every disabled <input> element.

Related Pages:

https://www.w3schools.com/cssref/sel_disabled.asp

property empty: Data

Selects every <p> element that has no children (including text nodes).

Related Pages:

https://www.w3schools.com/cssref/sel_empty.asp

property enabled: Data

Selects every enabled <input> element.

Related Pages:

https://www.w3schools.com/cssref/sel_enabled.asp

property focus: Data

Selects the input element which has focus.

Related Pages:

https://www.w3schools.com/cssref/sel_focus.asp

get_ref() → str

Get the style class reference.

property has_changed: bool

Set an internal flag to specify if the class has changed from the creation in the framework.

If the state of the class has changed, the class will not be generic anymore so it will change the CSS class reference by adding the Component id in order to make it specific.

This is a trick in order to be able to change common CSS classes for a specific component without impacting the other ones in the page.

property hover: Data

Selects links on mouse over.

Related Pages:

https://www.w3schools.com/cssref/sel_hover.asp

property invalid: Data

Selects all input elements with an invalid value.

Related Pages:

https://www.w3schools.com/cssref/sel_invalid.asp

keyframes(*name: str*, *attrs: dict*, *effects=None*, *change: bool = True*)

The @keyframes rule specifies the animation code.

The animation is created by gradually changing from one set of CSS styles to another.

Usage:

```
page.style.keyframes("test", {
  "50%": {"transform": "scale(1.5, 1.5)", "opacity": 0},
  "99%": {"transform": "scale(0.001, 0.001)", "opacity": 0},
  "100%": {"transform": "scale(0.001, 0.001)", "opacity": 1},
})
```

Related Pages:

https://www.w3schools.com/cssref/css3_pr_animation-keyframes.asp

Parameters

- **effects** – Effect Class.
- **name** (*str*) – Defines the name of the animation.
- **attrs** (*dict*) – Percentage of the animation duration.
- **change** (*bool*) – Optional. A flag to specify the state of the CSS class.

media(*attrs: dict*, *rule=None*, *media_type=None*, *media_feature=None*, *change=True*, *this_class=False*)

The @media is used in media queries to apply different styles for different media types/devices.

Usage:

```
page.style.media({"body": {"background-color": "lightblue"}}, "only", "screen",
  {'and': [{'height': '100px'}, {'min-width': '600px'}]})
```

The first key of the attributes can be an Epyk html object.

Related Pages:

https://www.w3schools.com/cssref/css3_pr_mediaquery.asp

Parameters

- **attrs** (*dict*) – Percentage of the animation duration.
- **rule** – String. Optional. not or only or and see documentation for more info.
- **media_type** – String. Optional. the media to which the rule will need to be applied.
- **media_feature** – String. Optional. Media features provide more specific details to media queries.
- **change** – Boolean. Optional. A flag to specify the state of the CSS class.
- **this_class** – Boolean. Optional. Specify if this should be applied to this class only.

transition(*attribute: str*, *duration: int = 2*, *delay: Optional[int] = None*, *iteration=None*, *timing_fnc: Optional[str] = None*)

Parameters

- **attribute** (*str*) –

- **duration** (*int*) – Optional. The duration of the transition effect.
- **delay** (*int*) – Optional. The time delay before starting the transition.
- **iteration** (*int*) – Optional. The count of iteration.
- **timing_fnc** (*str*) – Optional. The timing function from ("ease", "linear", "ease-in", "ease-out", "ease-in-out").

property valid: Data

Selects all input elements with a valid value.

Related Pages:

https://www.w3schools.com/cssref/sel_valid.asp

property visited: Data

Selects all visited links.

Related Pages:

https://www.w3schools.com/cssref/sel_visited.asp

property webkit_slider_thumb: Data

5.8.5.1.3 Colors

class epyk.core.css.Colors.**HexColors**

5.8.6 Javascript Built-Ins

Most of the JavaScript features are wrapped in Epyk in order to be able to use the auto completion to write JavaScript code. By design this framework is not dedicated to write thousand of lines of JavaScript. It has been implemented in order to help link components and modules with the Python object.

This module can be split into 4 main items:

- JavaScript core features.
- JavaScript Primitives.
- JavaScript HTML wrappers.
- JavaScript Packages wrappers.

5.8.6.1 Core Modules

class epyk.core.js.Js.**JsBase**(*page: Optional[PageModel] = None*, *component: Optional[HtmlModel] = None*)

property accounting

Shortcut to accounting properties.

Usages:

```
page.js.accounting.add_to_imports()
```

Related Pages:

http://openexchangerates.github.io/accounting.js/

activeElement()

The activeElement property returns the currently focused element in the document.

Related Pages:

https://www.w3schools.com/jsref/prop_document_activeelement.asp

Returns
A reference to the element object in the document that has focus.

and_(**args*) → jsWrap

Create a Javascript and statement.

property body: JsDoms

Get the DOM object.

This will return the object. It will not create any variable.

property breadcrumb: *JsBreadCrumb*

Create an internal Breadcrumb to keep track of the user journey within your page.

Related Pages:

https://www.w3schools.com/howto/howto_css_breadcrumbs.asp

Returns
A Python breadcrumb object.

clipboard(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

Copy the full URL to rhe clipboard.

Related Pages:

https://isabelcastillo.com/hidden-input-javascript

Parameters

- **data** – The Javascript expression
- **js_conv_func** – Optional. A specific JavaScript data conversion function

createAttribute(*attribute_name*)

The createAttribute() method creates an attribute with the specified name, and returns the attribute as an Attr object.

Related Pages:

https://www.w3schools.com/jsref/met_document_createattribute.asp

Parameters
attribute_name – The name of the attribute you want to create.

Returns
A Node object, representing the created attribute.

createElement(*tag_name: str*, *js_code: Optional[str] = None*, *set_var: bool = True*, *dom_id: Optional[str] = None*)

The createElement() method creates an Element Node with the specified name.

Related Pages:

https://www.w3schools.com/jsref/met_document_createelement.asp

Parameters

- **tag_name** – The name of the element you want to create
- **js_code** – The variable name to be set. Default random name
- **set_var** – Optional. Create a variable for the new object. Default True
- **dom_id** – Optional. The Dom ID reference for the object

createEvent(*event_type: str*)

The createEvent() method creates an event object.

The event can be of any legal event type, and must be initialized before use.

Related Pages:

https://www.w3schools.com/jsref/event_createevent.asp

Parameters
event_type – A String that specifies the type of the event.

Returns
An Event object

static createTextNode(*text: Optional[Union[JsDataModel, str]] = None*, *js_conv_func: Optional[Union[list, str]] = None*) → JsObject

The createTextNode() method creates a Text Node with the specified text.

Related Pages:

https://www.w3schools.com/jsref/met_document_createtextnode.asp

Parameters

- **text** – Optional. The text of the Text node
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
A Text Node object with the created Text Node.

custom(*data: Union[str, JsDataModel]*, *key: Optional[str] = None*, *is_py_data: bool = False*, *js_func: Optional[Union[list, str]] = None*)

Allow the definition of bespoke javascript strings.

Parameters

- **data** – A String corresponding to a JavaScript object
- **key** – Optional. A key reference in the JavaScript object
- **is_py_data** – Optional. Specify if the data is in Python and should be jsonify first
- **js_func** – Optional. Javascript functions

customFile(*filename: str*, *path: Optional[str] = None*, *module_type: str = 'text/javascript'*, *absolute_path: bool = False*, *requirements: Optional[list] = None*, *randomize: bool = False*, *authorize: bool = False*)

This will load your local javascript file when the report will be built. Then you will be able to use the new features in the different Javascript wrappers.

Usage:

```
page.js.customFile("test.js", r"C:
```

older")

param filename
The filename

param path
Optional. The file path

param module_type
Optional. The module type

param absolute_path
Optional. If path is None this flag will map to the current main path

param requirements
Optional. The list of required packages

param randomize
Optional. Add random suffix to the module to avoid browser caching

param authorize
Optional. Add to the restricted list of packages

return
The Js Object to allow the chaining.

customText(*text: str*)

Javascript fragment added at the beginning of the page. This will be called before any function in the framework.

Parameters
text – The Javascript fragment

Returns
self to allow the chaining.

property d3

D3.js is a JavaScript library for manipulating documents based on data. D3 helps you bring data to life using HTML, SVG, and CSS.

D3's emphasis on web standards gives you the full capabilities of modern browsers without tying yourself to a proprietary framework, combining powerful visualization components and a data-driven approach to DOM manipulation.

Related Pages:

https://d3js.org/

property data: JsData

Get wrapped JavaScript data structures.

decodeURIComponent(*url_enc: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsObject

The decodeURIComponent() function decodes a URI component.

Related Pages:

https://www.w3schools.com/jsref/jsref_decodeuricomponent.asp

Parameters

- **url_enc** – The URI to be decoded
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
A String, representing the decoded URI.

delay(*js_funcs: Union[list, str]*, *seconds: int = 0*, *window_id: str = 'window'*, *profile: Optional[Union[bool, dict]] = False*)

Add a wrapper on top of the setTimeout.

Usage:

```
page.js.delay([text.build("Change the value")], 5)
```

Parameters

- **js_funcs** – The function that will be executed
- **seconds** – Optional. The number of seconds to wait before executing the code
- **window_id** – Optional. The JavaScript window object
- **profile** – Optional. Set to true to get the profile for the function on the Javascript console

delete(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a DELETE HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)

- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

property documentElement

Document.documentElement returns the Element that is the root element of the document (for example, the <html> element for HTML documents).

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Document/documentElement

encodeURIComponent(*uri: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsObject

The encodeURIComponent() function encodes a URI component.

Related Pages:

https://www.w3schools.com/jsref/jsref_encodeuricomponent.asp

Parameters

- **uri** – The URI to be encoded
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
A String, representing the encoded URI.

eval(*data: Union[JsDataModel, str]*, *js_conv_func: Optional[Union[list, str]] = None*)

The eval() function evaluates JavaScript code represented as a string.

Warning: Executing JavaScript from a string is an enormous security risk. It is far too easy for a bad actor to run arbitrary code when you use eval(). See Never use eval()!, below.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/eval

Parameters

- **data** – Data to be evaluated
- **js_conv_func** – Optional. A specific JavaScript data conversion function

execCommand(*command: str*, *show_ui: bool*, *value: str*) → JsVoid

The execCommand() method executes the specified command for the selected part of an editable section.

Related Pages:

https://www.w3schools.com/jsref/met_document_execcommand.asp

:param command:. Specifies the name of the command to execute on the selected section :param show_ui: specifies if the UI should be shown or not :param value: Some commands need a value to be completed

Returns
A Boolean, false if the command is not supported, otherwise true.

extendProto(*py_class: Any*, *func_name: str*, *js_funcs: Union[str, list]*, *pmts: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*)

Javascript Framework extension.

Hook in the base class to allow the definition of specific function to add extra primitive features. Usual this function should be used in a wrapper function with the same name in order to have a coherent bridge between Python and Javascript.

Related Pages:

https://www.w3schools.com/js/js_object_prototypes.asp

Parameters

- **py_class** – PyJs class name
- **func_name** – The Javascript function name
- **js_funcs** – Javascript functions
- **pmts** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

Returns
The Js Object to allow the chaining.

fetch(*url: str*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*, *async_await: bool = False*) → JsPromise

The Fetch API provides a JavaScript interface for accessing and manipulating parts of the HTTP pipeline, such as requests and responses.

Usage:

```
page.ui.button("Click").click([
  page.js.fetch("test", {"method": "POST"}).then([
    page.js.console.log(pk.events.response)
  ])
])
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API/Using_Fetch

Parameters

- **url** – The target url
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage
- **async_await** – Optional.

property fncs: JsRegisteredFunctions

Property to the predefined Javascript functions.

Returns
The predefined functions.

for_(*js_funcs: Optional[Union[list, str]] = None*, *step: int = 1*, *start: int = 0*, *end: int = 10*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → JsFor

Shortcut to a for loop.

Usage:

```
js_for = page.js.for_(end=30)
js_for.fncs([page.js.console.log(js_for.i)])
```

Related Pages:

https://www.w3schools.com/js/js_loop_for.asp

Parameters

- **js_funcs** – Javascript functions
- **step** – Optional. The value to increment. Default 1
- **start** – Optional. The first index in the for loop
- **end** – Optional. The last index in the for loop
- **options** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

get(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[Union[Tuple[HtmlModel, str], List[HtmlModel]]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a GET HTTP request.

Usage:

```
inputs = page.ui.input("")
btn = page.ui.button("Click").click([
  page.js.get("/test", {"fegeg": "efefe", "ok": inputs.dom.content},␣
↪components=[("input", inputs)])
])
```

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. A String corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **dataflows** – Chain of data transformations

static getElementById(*id_name: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The getElementById() method returns the element that has the ID attribute with the specified value.

Related Pages:

https://www.w3schools.com/jsref/met_document_getelementbyid.asp

Parameters

- **id_name** – The ID attribute's value of the element you want to get.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

Returns

An Element Object, representing an element with the specified ID. Returns null if no elements with

the specified ID exists

static getElementsByClassName(*cls_name: str*) → JsDoms

The getElementsByClassName() method returns a collection of all elements in the document with the specified class name, as a NodeList object.

Related Pages:

https://www.w3schools.com/jsref/met_document_getelementsbyclassname.asp

Parameters

cls_name – The class name of the elements you want to get.

Returns

A NodeList object, representing a collection of elements with the specified class name. The elements in the returned collection are sorted as they appear in the source code.

static getElementsByName(*name: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsDomsList

The getElementsByName() method returns a collection of all elements in the document with the specified name (the value of the name attribute), as a NodeList object.

The NodeList object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.

Related Pages:

https://www.w3schools.com/jsref/met_doc_getelementsbyname.asp

Parameters

- **name** – The name attribute value of the element you want to access/manipulate.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

Returns

A NodeList object, representing a collection of elements with the specified name. The elements in the returned collection are sorted as they appear in the source code.

static getElementsByTagName(*tag_name: Union[str, JsDataModel]*, *i: int = 0*, *js_conv_func: Optional[Union[list, str]] = None*) → JsDoms

The getElementsByTagName() method returns a collection of an elements's child elements with the specified tag name, as a NodeList object.

The NodeList object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.

Related Pages:

https://www.w3schools.com/jsref/met_element_getelementsbytagname.asp

Parameters

- **tag_name** – The tag name of the child elements you want to get
- **i** – Optional. The index of the element
- **js_conv_func** – Optional. A specific JavaScript data conversion function

getVar(*js_code: Union[str, JsDataModel]*, *var_type: str = 'var'*) → JsObject

Get the Javascript Variable name.

Parameters

- **js_code** – The Variable name
- **var_type** – Optional. The scope of the variable

Returns

Return the piece of script to be added to the Javascript.

if_(*condition: Union[str, list, bool]*, *js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = False*)

Conditional statements are used to perform different actions based on different conditions.

Usage:

```
page.js.if_(icon.icon.dom.content == "fas fa-lock-open cssicon", [
  page.js.console.log(icon.icon.dom.content),
])
```

Related Pages:

https://www.w3schools.com/js/js_if_else.asp

Parameters

- **condition** – The Javascript condition. Can be a JsBoolean object
- **js_funcs** – Optional. The Javascript functions
- **profile** – Optional. A flag to set the component performance storage

import_css(*css_file: str*, *self_contained: bool = False*, *js_code: str = 'css_dyn'*)

Add a CSS file on the fly from a JavaScript event.

Related Pages:

https://stackoverflow.com/questions/19844545/replacing-css-file-on-the-fly-and-apply-the-new-style-to-the-page

Parameters

- **css_file** – A script name with a CSS extension

- **self_contained** – Optional. A flag to specify where the import will be done

import_js(*script: str*, *js_funcs: Union[str, list]*, *profile: Optional[Union[bool, dict]] = None*, *self_contained: bool = False*)

Add a Javascript module and then run function once it is loaded.

Usage:

```
icon = page.ui.icons.clock().css({"color": 'blue'})
icon.click([ page.js.import_js("utils.js", ["testImport()"])])
```

Related Pages:

https://cleverbeagle.com/blog/articles/tutorial-how-to-load-third-party-scripts-dynamically-in-javascript
https://stackoverflow.com/questions/950087/how-do-i-include-a-javascript-file-in-another-javascript-file

Parameters

- **script** – A script name. A Js extension
- **js_funcs** – Callback function when module loaded. The Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **self_contained** – Optional. A flag to specify where the import will be done

info(*data: Union[str, JsDataModel]*, *css_style: Optional[dict] = None*, *icon: str = 'fas fa-spinner fa-spin'*, *seconds: int = 10000*)

Display a message.

Related Pages:

https://fontawesome.com/how-to-use/on-the-web/styling/animating-icons

Parameters

- **data** – A String corresponding to a JavaScript object
- **css_style** – Optional. The CSS attributes to be added to the HTML component
- **icon** – Optional. A string with the value of the icon to display from font-awesome
- **seconds** – Optional. The number of second the info will be visible

intersectionObserver(*js_code: str*, *callback: Optional[Union[List[Union[str, JsDataModel]], str]] = None*, *options: Optional[dict] = None*, *observe_once: bool = False*, *profile: Optional[Union[bool, dict]] = None*) → IntersectionObserver

Parameters

- **js_code** – The PyJs functions.
- **callback** – JavaScript functions called by the intersectionObserver.
- **options** – intersectionObserver options.
- **observe_once** – A flag to remove the observable once callbacks run.
- **profile** – Option to perform profiling logs in the browser console.

property jquery

jQuery is a fast, small, and feature-rich JavaScript library.

It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

Usage:

```
btn = page.ui.button("Click")
btn.js.jquery.on("click", [
  page.js.alert("It works"),
  btn.js.jquery.after('<div style="background-color:yellow"> New div </div>'),
])
```

Related Pages:

https://jquery.com/

property keydown: KeyCode

The onkeydown event occurs when the user is pressing a key (on the keyboard).

Usage:

```
page.js.keydown.enter(pk.js_std.alert('Hello World'), profile=True)
```

Related Pages:

https://www.w3schools.com/jsref/event_onkeydown.asp

property keypress: KeyCode

The onkeypress event occurs when the user presses a key (on the keyboard).

Usage:

```
page.js.keypress.enter(pk.js_std.alert('Hello World'), profile=True)
```

Related Pages:

https://www.w3schools.com/jsref/event_onkeypress.asp

property keyup: KeyCode

The onkeypress event occurs when the user presses a key (on the keyboard).

Usage:

```
page.js.keyup.enter(pk.js_std.alert('Hello World'), profile=True)
```

Related Pages:

https://www.w3schools.com/jsref/event_onkeypress.asp

property location: *JsLocation*

Property to the Javascript Location functions.

Usage:

```
page.ui.text("Test").click([
  page.js.location.open_new_tab(page.js.location.getUrlFromArrays([
    ["AAA", "BBB"], ["111", "222"]], end_line="
```

"))])

Related Pages:

https://www.w3schools.com/jsref/obj_location.asp

mail(*mails*, *subject=None*, *body=None*, *cc=None*, *bcc=None*)

Create an email.

Related Pages:

https://www.w3docs.com/snippets/html/how-to-create-mailto-links.html

Parameters

- **mails** –
- **subject** –
- **body** –
- **bcc** –

property mediaRecorder: MediaRecorder

The MediaRecorder interface of the MediaStream Recording API provides functionality to easily record media. It is created using the MediaRecorder() constructor.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/MediaRecorder

property moment

Parse, validate, manipulate, and display dates and times in JavaScript.

Usage:

```
page.js.moment.new("2021-08-05", varName="momentTime"),
page.js.console.log(page.js.moment.var("momentTime").weekYear(1998)),
page.js.console.log(page.js.moment.var("momentTime").weekYear()),
page.js.console.log(page.js.moment.new("2021-08-05")),
```

Related Pages:

https://momentjs.com/ https://github.com/you-dont-need/You-Dont-Need-Momentjs

property msg: Msg

Shortcut to predefined temporary messages displayed to the UI.

navigateTo(*url: Union[str, JsDataModel]*, *options: Optional[dict] = None*) → JsObject

Navigator to another URL like NodeJs.

Usage:

```
icon.click([self.context.page.js.navigateTo(url)])
```

Related Pages:

https://redfin.github.io/react-server/annotated-src/navigateTo.html

Parameters

- **url** – The target url

- **options** – Optional. The property of the location object

property navigator: JsNavigator

The information from the navigator object can often be misleading, and should not be used to detect browser versions because:

- Different browsers can use the same name.
- The navigator data can be changed by the browser owner.
- Some browsers misidentify themselves to bypass site tests.
- Browsers cannot report new operating systems, released later than the browser.

not_(*data*, *js_conv_func: Optional[Union[list, str]] = None*) → JsFunction

Add the Symbol (!) for the boolean negation. This feature is also available directly to any JsBoolean objects.

Usage:

```
jsObj.not_(jsObj.objects.boolean.get("weekend"))
```

Related Pages:

https://developer.mozilla.org/fr/docs/Web/JavaScript/Reference/Op%C3%A9rateurs/Op%C3%A9rateurs_logiques

Parameters

- **data** – A String corresponding to a JavaScript object
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns

The Javascript fragment string.

number(*data*, *js_code: Optional[str] = None*, *set_var: bool = False*, *is_py_data: bool = True*) → JsNumber

Shortcut to the Javascript Number primitives.

Parameters

- **data** – The String data.
- **js_code** – Optional. The specific name to be used for this JavaScript String.
- **set_var** – Optional. Set a variable. Default False.
- **is_py_data** – Optional. Specify the type of data.

object(*data*, *js_code: Optional[str] = None*, *set_var: bool = False*, *is_py_data: bool = True*) → JsObject

Shortcut to the Javascript Object primitives.

Parameters

- **data** – The String data.
- **js_code** – Optional. The specific name to be used for this JavaScript String.
- **set_var** – Optional. Set a variable. Default False.
- **is_py_data** – Optional. Specify the type of data.

property objects: JsObjects

Interface to the main Javascript Classes and Primitives.

onReady(*js_funcs: Union[str, list]*, *profile: Optional[Union[bool, dict]] = False*)

The ready event occurs when the body DOM (document object model) has been loaded.

Related Pages:

https://www.w3schools.com/jquery/event_ready.asp

Parameters

- **js_funcs** – The Javascript functions to be added to this section
- **profile** – Optional. A flag to set the component performance storage

or_(**args*) → jsWrap

Create a Javascript Or statement.

static parseDate(*value: str*) → JsNumber

The parse() method parses a date string and returns the number of milliseconds between the date string and midnight of January 1, 1970.

Related Pages:

https://www.w3schools.com/jsref/jsref_parse.asp

Parameters
value – A string representing a date.

Returns
Number. Representing the milliseconds between the specified date-time and midnight January 1, 1970.

static parseFloat(*value: str*) → JsNumber

The parseFloat() function parses a string and returns a floating point number.

Related Pages:

https://www.w3schools.com/jsref/jsref_parseint.asp

Parameters
value – The string to be parsed.

Returns
A Number. If the first character cannot be converted to a number, NaN is returned.

static parseInt(*value: str*)

The parseInt() function parses a string and returns an integer.

Related Pages:

https://www.w3schools.com/jsref/jsref_parseint.asp

Parameters
value – The string to be parsed.

Returns
A Number. If the first character cannot be converted to a number, NaN is returned.

patch(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a PATH HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

post(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a POST HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

print(*content: Union[str, JsDataModel]*, *timer: int = 1000*, *css_attrs: Optional[dict] = None*)

Print a temporary message.

Parameters

- **content** – The content of the popup.
- **timer** – Optional. The time the popup will be displayed.
- **css_attrs** – Optional. The CSS attributes for the popup.

profile(*type: Union[str, JsDataModel]*, *html_code: str*, *mark: Union[str, JsDataModel]*, *records_count: Optional[int] = None*)

Parameters

- **type** – The type of profile tag.
- **html_code** – The HTML component ID.
- **mark** – The mark reference.
- **records_count** – Optional. The records count.

put(*url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a PUT HTTP request.

Related Pages:

https://pythonise.com/series/learning-flask/flask-http-methods

Parameters

- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage
- **headers** – Optional. The request headers
- **asynchronous** – Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

querySelector(*selector: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The querySelector() method returns the first element that matches a specified CSS selector(s) in the document.

Related Pages:

https://www.w3schools.com/jsref/met_document_queryselector.asp

Parameters

- **selector** – CSS selectors.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

querySelectorAll(*selector: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsDomsList

The querySelectorAll() method returns all elements in the document that matches a specified CSS selector(s), as a static NodeList object.

Related Pages:

https://www.w3schools.com/jsref/met_document_queryselectorall.asp

Parameters

- **selector** – CSS selectors.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

queueMicrotask(*js_funcs: Union[List[Union[str, JsDataModel]], str]*, *profile: Optional[Union[bool, dict]] = None*)

The queueMicrotask() method, which is exposed on the Window or Worker interface, queues a microtask to be executed at a safe time prior to control returning to the browser's event loop.

Usage:

```
page.body.onReady([
    page.js.queueMicrotask([page.js.alert("ok")])
  ])
```

Related Pages:

https://developer.mozilla.org/fr/docs/Web/API/queueMicrotask

Parameters

- **js_funcs** – The Javascript function definition
- **profile** – Optional. A flag to set the component performance storage

registerFunction(*func_name: str*, *js_funcs: Union[str, list]*, *args: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*)

Javascript Framework extension.

Register a predefined Javascript function. This is only dedicated to specific Javascript transformation functions.

Parameters

- **func_name** – The function name
- **js_funcs** – The Javascript function definition
- **args** – Optional. Specific Python options available for this component
- **profile** – Optional. A flag to set the component performance storage

request_http(*method_type: str*, *url: str*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[HtmlModel]] = None*) → XMLHttpRequest

All modern browsers have a built-in XMLHttpRequest object to request data from a server.

Related Pages:

https://www.w3schools.com/xml/xml_http.asp

Usage:

```
page.js.request_http("ajax", "POST", "https://api.cdnjs.com/libraries").
↪setHeaders(header).onSuccess([
page.js.alert(rptObj.js.objects.request.get("ajax").responseText)]).
↪send(encodeURIData={"search": 'ractive'})
```

Parameters

- **method_type** – The method of the HTTP Request
- **url** – The url path of the HTTP request
- **js_code** – Optional. The variable name created in the Javascript
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. A list of HTML objects values to be passed in the request

request_rpc(*js_code: str*, *method_type: Union[str, JsDataModel]*, *fnc: Callable*, *url: str*, *extra_params: Optional[Union[dict, JsDataModel]] = None*) → XMLHttpRequest

Internal RPC to trigger services.

Parameters

- **js_code** – The variable name created in the Javascript.
- **method_type** – The method type
- **fnc** – Python function.
- **url** – The service url
- **extra_params** – Optional.

rest(*method: str*, *url: Union[str, JsDataModel]*, *data: Optional[dict] = None*, *js_code: str = 'response'*, *is_json: bool = True*, *components: Optional[List[Union[Tuple[HtmlModel, str], HtmlModel]]] = None*, *profile: Optional[Union[bool, dict]] = None*, *headers: Optional[dict] = None*, *asynchronous: bool = False*, *stringify: bool = True*, *dataflows: Optional[List[dict]] = None*) → XMLHttpRequest

Create a POST HTTP request.

Parameters

- **method** – The REST method used
- **url** – The url path of the HTTP request
- **data** – Optional. Corresponding to a JavaScript object
- **js_code** – Optional. The variable name created in the Javascript (default response)
- **is_json** – Optional. Specify the type of object passed
- **components** – Optional. This will add the component value to the request object
- **profile** – Optional. A flag to set the component performance storage

- **headers** – Optional. The request headers
- **asynchronous** – Optional. Async flag: true (asynchronous) or false (synchronous)
- **stringify** – Optional. Stringify the request data for json exchange
- **dataflows** – Chain of data transformations

return_(*data: str*) → JsFunction

Javascript return keyword.

Parameters
data – The Javascript expression.

property rxjs

Reactive Extensions Library for JavaScript.

Related Pages:

https://rxjs.dev/

property samples: Samples

JavaScript feature to provide sample of data for a test/demo.

Usage:

```
page.js.samples.months(count_=7)
page.js.samples.numbers(count_=7, min_=-100, max_=100)
```

property screen

The screen object contains information about the visitor's screen.

Related Pages:

https://www.w3schools.com/jsref/obj_screen.asp

serverSentEvent(*html_code: Optional[str] = None*) → ServerSentEvent

SSE is a native HTML5 feature that allows the server to keep the HTTP connection open and push data changes to the client. Server-sent Streaming is really ideal for server-push notifications, device monitoring and all other tasks that do not require real-time push back from the client.

Related Pages:

https://medium.com/code-zen/python-generator-and-html-server-sent-events-3cdf14140e56 https://www.w3schools.com/html/html5_serversentevents.asp https://developer.mozilla.org/en-US/docs/Web/API/Server-sent_events/Using_server-sent_events

Parameters
html_code – The EventSource id (variable name) on the JavaScript side

socketio(*html_code: Optional[str] = None*)

This object must be created on the Python side.

The various function will be the one generating the Javascript string. This is just a Python wrapper on top of the library.

Related Pages:

https://www.tutorialspoint.com/socket.io/socket.io_event_handling.htm

Parameters
html_code – Optional. The WebSocket id (variable name) on the JavaScript side

speechRecognition(*js_code: str*) → SpeechRecognition

The SpeechRecognition interface of the Web Speech API is the controller interface for the recognition service; this also handles the SpeechRecognitionEvent sent from the recognition service.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/SpeechRecognition

Usage:

```
page = pk.Page()
rec = page.js.speechRecognition("reco")

test = page.ui.button("Start recording")
test.click([rec.start()])

page.ui.input(html_code="test")

rec.speechend([rec.stop()])
rec.onresult([pk.js_callback("UpdateComponent(transcript, confidence)"), page.
↪js.console.log("Done")])
page.body.onReady([page.js.import_js("test_fnc.js", [], self_contained=True),␣
↪rec])

# in the module test_fnc.js
function ProcessData(transcript, confidence){
    console.log(transcript); return (transcript == 'hello')}

function UpdateComponent(transcript, confidence){
    var expr = transcript.split(" ");
    if (expr[0] === "put"){document.getElementById(expr[3]).value = expr[1]}}
```

Parameters

js_code – The variable name for the speech recognition object

string(*data*, *js_code: Optional[str] = None*, *set_var: bool = False*, *is_py_data: bool = True*) → JsString

Shortcut to the Javascript String primitives.

Parameters

- **data** – The String data.
- **js_code** – Optional. The specific name to be used for this JavaScript String.
- **set_var** – Optional. Set a variable. Default False.
- **is_py_data** – Optional. Specify the type of data.

switch(*variable: Union[str, JsDataModel, HtmlModel]*, *js_conv_func: Optional[Union[list, str]] = None*) → JsSwitch

switch statement is used to perform different actions based on different conditions.

Related Pages:

https://www.w3schools.com/js/js_switch.asp

Parameters

- **variable** – Variable on which we will apply the switch

- **js_conv_func** – Optional. A specific JavaScript data conversion function

static title(*text: Optional[Union[JsDataModel, str]] = None*, *js_conv_func: Optional[Union[list, str]] = None*)

The title property sets or returns the title of the current document (the text inside the HTML title element).

Related Pages:

https://www.w3schools.com/jsref/prop_doc_title.asp

Parameters

- **text** – Optional. Representing the title of the document
- **js_conv_func** – Optional. A specific JavaScript data conversion function

static typeof(*data: str*, *var_type: Optional[str] = None*)

The typeof function.

Related Pages:

https://www.w3schools.com/js/js_datatypes.asp

Parameters

- **data** – A String corresponding to a JavaScript object
- **var_type** – Optional. The type of object

property viewHeight

Return the current View port height visible in the browser.

websocket(*html_code: Optional[str] = None*, *secured: bool = False*)

WebSocket client applications use the WebSocket API to communicate with WebSocket servers using the WebSocket protocol.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications https://javascript.info/websocket

Parameters

- **html_code** – Optional. The WebSocket id (variable name) on the JavaScript side
- **secured** – Optional. To define the right protocol for the WebSocket connection we or wss

while_(*condition: Union[str, list]*, *js_funcs: Union[list, str]*, *options: Optional[dict] = None*, *profile: Optional[Union[bool, dict]] = False*) → JsWhile

The while loop loops through a block of code as long as a specified condition is true.

Related Pages:

https://www.w3schools.com/js/js_loop_while.asp

Parameters

- **condition** – The JavaScript condition
- **js_funcs** – Javascript functions
- **options** – Optional. Specific Python options available for this component

- **profile** – Optional. A flag to set the component performance storage

worker(*html_code: Optional[str] = None*, *server: bool = False*)

A web worker is a JavaScript running in the background, without affecting the performance of the page.

Related Pages:

https://www.w3schools.com/html/html5_webworkers.asp

Parameters

- **html_code** – Optional. The WebSocket id (variable name) on the JavaScript side
- **server** – Optional. Specify if the page is running on a server

writeln(*value: str*)

The writeln() method is identical to the document.write() method, with the addition of writing a newline character after each statement.

Related Pages:

https://www.w3schools.com/jsref/met_doc_writeln.asp

Parameters

value – What to write to the output stream. Multiple arguments can be listed and they will be appended to the document in order of occurrence

Returns

No return value

5.8.6.2 JavaScript features

5.8.6.2.1 Console

class epyk.core.js.Js.**JsConsole**(*page: Optional[PageModel] = None*)

This is a wrapper to the Console.

Related Pages:

https://medium.freecodecamp.org/how-to-get-the-most-out-of-the-javascript-console-b57ca9db3e6d

property clear

The console.clear() method clears the console.

Usage:

```
page.js.console.clear
```

Related Pages:

https://www.w3schools.com/jsref/met_console_clear.asp

Returns

The Javascript String used to clear the console (F12 in standard browsers).

property debugger

Trigger a Javascript debugger from this point. The Javascript will be stopped. It will be possible to check the process step by step in the browser using F12.

Usage:

```
page.js.console.debugger
```

Related Pages:

https://www.w3schools.com/jsref/jsref_debugger.asp

Returns
The Javascript Keyword to trigger the browser debugger.

error(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The console.error() method writes an error message to the console.

Related Pages:

https://www.w3schools.com/jsref/met_console_error.asp

Parameters

- **data** – The Javascript fragment
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript String used to clear the console (F12 in standard browsers)

info(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The console.info() method writes a message to the console.

Related Pages:

https://www.w3schools.com/jsref/met_console_info.asp

Parameters

- **data** – The Javascript fragment
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript String used to clear the console (F12 in standard browsers)

log(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*, *skip_data_convert: bool = False*)

The console.log() method writes a message to the console.

Usage:

```
page.js.console.log("Test")
```

Related Pages:

https://www.w3schools.com/jsref/met_console_log.asp

Parameters

- **data** – The Javascript fragment.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.
- **skip_data_convert** – Optional. Flag to specify to the framework if a Json conversion is needed.

Returns
The Javascript String used to clear the console (F12 in standard browsers)

perf(*js_code: str*, *label: Optional[str] = None*)

Shortcut function to display performances from a variable. The variable must be global. Namely the name should start with window.

Parameters

- **js_code** – The variable var name use to compute the performance.
- **label** – Optional. The description.

service(*msg: str*, *headers: Optional[dict] = None*)

Send logs to the backend.

Parameters

- **msg** – The log message to be sent to the backend
- **headers** – the service headers

table(*data: Union[str, JsDataModel]*, *js_header: Optional[list] = None*) → JsFunction

The console.table() method writes a table in the console view.

Related Pages:

https://www.w3schools.com/jsref/met_console_table.asp

Parameters

- **data** – The data to fill the table with
- **js_header** – Optional. An array containing the names of the columns to be included in the table

Returns
The Javascript String used to clear the console (F12 in standard browsers).

time(*html_code: Union[str, JsDataModel]*) → JsNumber

The console.time() method starts a timer in the console view.

Related Pages:

https://www.w3schools.com/jsref/met_console_time.asp

Parameters
html_code – Use the label parameter to give the timer a name

Returns
A Python Javascript Number.

timeEnd(*html_code: Union[str, JsDataModel]*)

The console.timeEnd() method ends a timer, and writes the result in the console view.

Related Pages:

https://www.w3schools.com/jsref/met_console_timeend.asp

Parameters
html_code – The name of the timer to end

Returns
The Javascript String used to clear the console (F12 in standard browsers).

tryCatch(*js_funcs: Union[str, list]*, *js_funcs_errs: Union[str, list] = 'console.warn(err.message)'*, *profile: Optional[Union[bool, dict]] = False*)

Javascript Try Catch Exceptions.

Related Pages:

https://www.w3schools.com/jsref/jsref_obj_error.asp

Parameters

- **js_funcs** – The Javascript functions
- **js_funcs_errs** – The Javascript functions
- **profile** – Optional. A flag to set the component performance storage

Returns
The Javascript String used to clear the console (F12 in standard browsers)

warn(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

The console.warn() method writes a warning to the console.

Related Pages:

https://www.w3schools.com/jsref/met_console_warn.asp

Parameters

- **data** – The Javascript fragment
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript String used to clear the console (F12 in standard browsers)

5.8.6.2.2 Json

class epyk.core.js.Js.**JsJson**

Wrapper around the Javascript Json module.

This wrapper will only wrapper the different functions available in the underlying library. The documentation can be found in each function or are available on the Javascript Official documentation.

Related Pages:

https://www.w3schools.com/js/js_json_intro.asp

parse(*data: Union[str, JsDataModel]*, *js_result_func: Optional[str] = None*, *js_conv_func: Optional[Union[list, str]] = None*)

Parses a JSON string and returns a JavaScript object.

Related Pages:

https://www.w3schools.com/js/js_json_parse.asp https://www.w3schools.com/jsref/jsref_parse_json.asp

Parameters

- **data** – A String corresponding to a JavaScript object
- **js_result_func** – Optional. A function used to transform the result. The function is called for each item. Any nested objects are transformed before the parent
- **js_conv_func** – Optional. A specific JavaScript data conversion function

Returns
The Javascript string method

stringify(*data: Union[str, JsDataModel]*, *replacer=None*, *space: int = 0*, *js_conv_func: Optional[Union[list, str]] = None*)

The JSON.stringify() method converts JavaScript objects into strings.

Related Pages:

https://www.w3schools.com/js/js_json_stringify.asp

Parameters

- **data** – The value to convert to a string.
- **replacer** – Optional. Either a function or an array used to transform the result. The replacer is called for each item.
- **space** – Optional. Either a String or a Number. A string to be used as white space (max 10 characters), or a Number, from 0 to 10, to indicate how many space characters to use as white space.
- **js_conv_func** – Optional. A specific JavaScript data conversion function.

Returns
The Javascript string method.

5.8.6.2.3 BreadCrumb

class epyk.core.js.Js.**JsBreadCrumb**(*src: Optional[PageModel] = None*)

add(*key: str*, *data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

Add an entry to the Javascript breadcrumb dictionary.

Parameters

- **key** – The key in the Breadcrumb dictionary
- **data** – A String corresponding to a JavaScript object
- **js_conv_func** – Optional. A specific JavaScript data conversion function

get(*key: Optional[str] = None*)

returns the object stored in the breadcrumb dictionary.

Parameters
key – Optional. The key in the Breadcrumb dictionary

Returns
A Python object.

hash(*data: Union[str, JsDataModel]*, *js_conv_func: Optional[Union[list, str]] = None*)

Add an anchor to the URL after the hashtag.

Related Pages:

https://www.w3schools.com/jsref/prop_loc_hash.asp

Parameters

- **data** – A String corresponding to a JavaScript object
- **js_conv_func** – Optional. A specific JavaScript data conversion function

property url

Get the full URL.

5.8.6.2.4 Screen

class epyk.core.js.Js.**JsScreen**

property availHeight: JsNumber

The availHeight property returns the height of the user's screen, in pixels, minus interface features like the Windows Task bar.

Related Pages:

https://www.w3schools.com/jsref/prop_screen_availheight.asp

property availWidth: JsNumber

The availWidth property returns the width of the user's screen, in pixels, minus interface features like the Windows Task bar.

Related Pages:

https://www.w3schools.com/jsref/prop_screen_availwidth.asp

property colorDepth: JsNumber

The colorDepth property returns the bit depth of the color palette for displaying images (in bits per pixel).

Related Pages:

https://www.w3schools.com/jsref/prop_screen_colordepth.asp

property height: JsNumber

The height property returns the total height of the user's screen, in pixels.

Related Pages:

https://www.w3schools.com/jsref/prop_screen_height.asp

property pixelDepth: JsNumber

The pixelDepth property returns the color resolution (in bits per pixel) of the visitor's screen.

Related Pages:

https://www.w3schools.com/jsref/prop_screen_pixeldepth.asp

property width: JsNumber

The width property returns the total width of the user's screen, in pixels.

Related Pages:

https://www.w3schools.com/jsref/prop_screen_width.asp

5.8.6.2.5 Maths

class epyk.core.js.Js.JsMaths.**JsMaths**

Wrapper for the Javascript Math module

Related Pages:

https://www.w3schools.com/jsref/jsref_obj_math.asp

property E: JsNumber

The E property returns the Euler's number and the base of natural logarithms, approximately 2.718.

Usage:

```
page.js.math.E
```

Related Pages:

https//www.w3schools.com/jsref/jsref_e.asp

Returns
Returns Euler's number (approx. 2.718)

property LN10

The LN10 property returns the natural logarithm of 10, approximately 2.302.

Usage:

```
jsObj.math.LN10
```

Related Pages:

https://www.w3schools.com/jsref/jsref_ln10.asp

Returns
Returns the natural logarithm of 10 (approx. 2.302)

property LN2

The LN2 property returns the natural logarithm of 2, approximately 0.693.

Usage:

```
jsObj.math.LN2
```

Related Pages:

https//www.w3schools.com/jsref/jsref_ln2.asp

Returns
Returns the natural logarithm of 2 (approx. 0.693)

property LOG2E

The LOG2E property returns the base-2 logarithm of E, approximately 1.442

Usage:

```
jsObj.math.LOG2E
```

Related Pages:

https//www.w3schools.com/jsref/jsref_log2e.asp

Returns
Returns the base-2 logarithm of E (approx. 1.442)

property PI

The PI property returns the ratio of a circle's area to the square of its radius, approximately 3.14.

Related Pages:

https://www.w3schools.com/jsref/jsref_pi.asp

property SQRT1_2

The SQRT1_2 property returns the square root of 1/2, approximately 0.707.

Usage:

```
jsObj.math.SQRT1_2
```

Related Pages:

https//www.w3schools.com/jsref/jsref_sqrt1_2.asp

Returns
Returns the square root of 1/2 (approx. 0.707)

property SQRT2: <module 'epyk.core.js.primitives.JsNumber' from '../epyk/core/js/primitives/JsNumber.py'>

The SQRT2 property returns the square root of 2, approximately 1.414.

Usage:

```
jsObj.math.SQRT2
```

Related Pages:

https//www.w3schools.com/jsref/jsref_sqrt2.asp

Returns
Returns the square root of 2 (approx. 1.414)

abs(*number: Union[float, JsDataModel]*)

The abs() method returns the absolute value of a number.

Related Pages:

https//www.w3schools.com/jsref/jsref_abs.asp

Parameters
number (*Union[infloatt, primitives.JsDataModel]*) – A number.

Returns
Returns the absolute value of x.

ceil(*number: Union[float, JsDataModel]*)

The ceil() method rounds a number UPWARDS to the nearest integer, and returns the result.

Usage:

```
jsObj.math.ceil(jsObj.objects.number.get("MyNumber"))
```

Related Pages:

https//www.w3schools.com/jsref/jsref_ceil.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – The number you want to round.

Returns
Returns x, rounded upwards to the nearest integer.

cos(*number: Union[float, JsDataModel]*)

The acos() method returns the cosinus of a number as a value value between 0 and PI radians.

Related Pages:

https//www.w3schools.com/jsref/jsref_cos.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – Returns the cosine of x (x is in radians).

Returns
A Number, from -1 to 1, representing the cosine of an angle, or NaN if the value is empty.

exp(*number: Union[float, JsDataModel]*)

The exp() method returns the value of Ex, where E is Euler's number (approximately 2.7183) and x is the number passed to it.

Related Pages:

https//www.w3schools.com/jsref/jsref_exp.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – Number. Required. A number,

Returns
Returns the value of exponential of x,

floor(*number: Union[float, JsDataModel]*)

The floor() method rounds a number DOWNWARDS to the nearest integer, and returns the result.

Usage:

```
jsObj.math.floor(13.566)
```

Related Pages:

https//www.w3schools.com/jsref/jsref_floor.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – Required. The number you want to round.

Returns
A Number, representing the nearest integer when rounding downwards

log(*number: Union[float, JsDataModel]*)

The log() method returns the natural logarithm (base E) of a number.

Related Pages:

https//www.w3schools.com/jsref/jsref_log.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – Number. Required. A number.

Returns
Returns the natural logarithm (base E) of x.

max(**args*)

The max() method returns the number with the highest value.

Usage:

```
jsObj.math.max(10, 45, 100, -3, 56)
```

Related Pages:

https://www.w3schools.com/jsref/jsref_max.asp https://www.jstips.co/en/javascript/calculate-the-max-min-value-from-an-array/

Parameters
args – Optional. One or more numbers to compare.

Returns
A Number, representing the highest number of the arguments, or -Infinity if no arguments are given, or NaN

if one or more arguments are not numbers

min(**args*)

The min() method returns the number with the lowest value.

Usage:

```
jsObj.math.min(10, 45, 100, -3, 56)
```

Related Pages:

https://www.w3schools.com/jsref/jsref_min.asp

Parameters
args – Optional. One or more numbers to compare.

Returns
A Number, representing the lowest number of the arguments, or Infinity

if no arguments are given, or NaN if one or more arguments are not numbers

static pow(*number: Union[JsDataModel, float]*, *power: Union[JsDataModel, int]*)

The pow() method returns the value of x to the power of y (xy).

Usage:

```
jsObj.objects.number.new(23.6, varName="MyNumber")
jsObj.math.pow(jsObj.objects.number.get("MyNumber"), 2)
```

Related Pages:

https//www.w3schools.com/jsref/jsref_pow.asp

Parameters

- **number** (*Union[float, primitives.JsDataModel]*) – The base.
- **power** (*Union[int, primitives.JsDataModel]*) – The exponent.

Returns
Returns the value of x to the power of y.

random(*min_val: Union[int, JsDataModel] = 0*, *max_val: Union[int, JsDataModel] = 1*)

Math.random() returns a random number between 0 (inclusive), and 1 (exclusive):

Usage:

```
page.js.math.random()
jsObj.math.random(10, 100)
```

Related Pages:

https://www.w3schools.com/js/js_random.asp

Parameters

- **min_val** (*Union[int, primitives.JsDataModel]*) – Optional The minimum value for the random function.
- **max_val** (*Union[int, primitives.JsDataModel]*) – Optional The maximum value for the random function.

Returns
A Number, representing a number from 0 up to but not including 1.

round(*number: Union[float, JsDataModel]*)

The round() method rounds a number to the nearest integer.

Note: 2.49 will be rounded down (2), and 2.5 will be rounded up (3).

Usage:

```
jsObj.objects.number.new(23.6, varName="MyNumber")
jsObj.math.round(jsObj.objects.number.get("MyNumber"))
```

Related Pages:

https//www.w3schools.com/jsref/jsref_round.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – The number to be rounded.

Returns
Rounds x to the nearest integer.

sin(*number: Union[float, JsDataModel]*)

The sin() method returns the sinus of a number as a value value between 0 and PI radians.

Related Pages:

https//www.w3schools.com/jsref/jsref_sin.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – Returns the sinus of x (x is in radians).

Returns
Number. from -1 to 1, representing the sine of an angle, or NaN if the value is empty.

sqrt(*number: Union[float, JsDataModel]*)

The sqrt() method returns the square root of a number.

Usage:

```
jsObj.objects.number.new(23.6, varName="MyNumber")
jsObj.math.sqrt(jsObj.objects.number.get("MyNumber"))
```

Related Pages:

https//www.w3schools.com/jsref/jsref_sqrt.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – A number.

Returns
A Number. If x is a negative number, NaN is returned.

trunc(*number: Union[float, JsDataModel]*)

The trunc() method returns the integer part of a number.

Usage:

```
page.js.math.trunc(rptObj.js.math.SQRT2)
```

Related Pages:

https//www.w3schools.com/jsref/jsref_trunc.asp

Parameters
number (*Union[float, primitives.JsDataModel]*) – Number. Required. A number.

Returns
Returns the integer part of a number (x).

5.8.6.2.6 Location

class epyk.core.js.Js.JsLocation.**JsLocation**

JavaScript Location module.

classmethod assign(*url: Union[str, JsDataModel]*) → JsFunction

The assign() method loads a new document.

Related Pages:

https//www.w3schools.com/jsref/met_loc_assign.asp

Parameters
url – Specifies the URL of the page to navigate to

classmethod download(*url: Union[str, JsDataModel]*, *name: Union[str, JsDataModel] = 'download'*) → JsVoid

Download data from the url.

Parameters

- **url** – The url of the image
- **name** – Optional. The name of the file

classmethod getUrlFromArrays(*data: Union[list, JsDataModel]*, *delimiter: Union[str, JsDataModel] = ','*, *charset: str = 'utf-8'*, *end_line: Union[str, JsDataModel] = '\r\n'*)

Convert data to a URL.

Parameters

- **data** – A JavaScript array
- **delimiter** – Optional. The column delimiter
- **charset** – Optional.
- **end_line** – Optional.

classmethod getUrlFromData(*data: Union[dict, JsDataModel]*, *options: Optional[Union[dict, JsDataModel]] = None*)

Convert data to a URL.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Blob

Parameters

- **data** – Input data to be converted

- **options** – Optional. Blob definition properties

property hash: JsObject

The hash property sets or returns the anchor part of a URL, including the hash sign (#).

Usage:

```
jsObj.location.hash
```

Related Pages:

https//www.w3schools.com/jsref/prop_loc_hash.asp

Returns

A String, representing the anchor part of the URL, including the hash sign (#).

property host: JsString

The host property sets or returns the hostname and port of a URL.

Usage:

```
jsObj.location.host
```

Related Pages:

https//www.w3schools.com/jsref/prop_loc_host.asp

Returns

Return the hostname and port of the current URL.

property hostname: JsString

The hostname property sets or returns the hostname of a URL.

Usage:

```
page.location.hostname
```

Related Pages:

https//www.w3schools.com/jsref/obj_location.asp

Returns

Return the hostname property.

classmethod href(*href: Optional[Union[JsDataModel, str]] = None*, *secured: bool = False*) → JsObject

The href property sets or returns the entire URL of the current component.

Usage:

```
page.js.location.href("https://www.w3schools.com/howto/howto_js_fullscreen.asp")
```

Related Pages:

https://www.w3schools.com/jsref/prop_loc_href.asp

Parameters

- **href** – Optional. Set the href property

- **secured** – Optional. The secured flag

Returns
A String, representing the entire URL of the page, including the protocol (like http://).

mail(*mails: List[str]*, *subject: str*, *body: str*)

The mailto link when clicked opens users default email program or software. A new email page is created with "To" field containing the address of the name specified on the link by default.

Usage:

```
page.js.location.mail(["test@gmail.com"], "This is a test", "This is the email
↪'s content")
```

Related Pages:

http://www.tutorialspark.com/html5/HTML5_email_mailto.php

Parameters

- **mails** – The email addresses
- **subject** – The email's subject
- **body** – The email's content

Returns
THe Javascript string.

classmethod open_new_tab(*url: Union[str, JsDataModel]*, *name: Union[str, JsDataModel] = '_blank'*, *specs: Optional[Union[JsDataModel, str]] = None*, *replace: Optional[Union[JsDataModel, str]] = None*, *window_id: str = 'window'*, *data: Optional[dict] = None*, *secured: bool = False*) → JsFunction

Opens a new browser window in a new tab (duplicated but part of the Window module).

Usage:

```
page.js.location.open_new_tab("www.google.fr")
```

Related Pages:

https://www.w3schools.com/Jsref/met_win_open.asp

Parameters

- **url** – Optional. Specifies the URL of the page to open. If no URL is specified, a new window/tab with about:blank is opened
- **name** – Optional. Specifies the target attribute or the name of the window. Default _blank
- **specs** – Optional. A comma-separated list of items, no whitespaces
- **replace** – Optional. Specifies whether the URL creates a new entry or replaces the current entry in the history list
- **window_id** – Optional. The JavaScript window object
- **data** – Optional. The url parameters
- **secured** – Optional. The secure flag

property origin: JsString

The origin property returns the protocol, hostname and port number of a URL.

Usage:

```
page.js.location.origin + page.js.location.pathname
```

Related Pages:

https//www.w3schools.com/jsref/prop_loc_origin.asp

Returns

A String, representing the protocol (including ://), the domain name (or IP address) and port number (including the colon sign (:) of the URL. For URL's using the "file:" protocol, the return value differs between browser)

property pathname: JsString

The hostname property sets or returns the hostname of a URL.

Usage:

```
jsObj.location.pathname
```

Related Pages:

https//www.w3schools.com/jsref/obj_location.asp

Returns

Return the pathname property.

property port: JsString

The port property sets or returns the port number the server uses for a URL.

Related Pages:

https//www.w3schools.com/jsref/prop_loc_port.asp

Returns

A String, representing the port number of a URL.

classmethod postTo(*url: str*, *data: dict*, *method: str = 'POST'*, *target: str = '_blank'*)

This method will create an internal form and submit the response exactly like a post of a form to another page.

Related Pages:

https://www.w3schools.com/jsref/dom_obj_form.asp

Parameters

- **url** – The target url
- **data** – The url parameters
- **method** – Optional. The method used to send the data. Default POST
- **target** – Optional. Target method to access the new page

classmethod reload(*force_get: bool = False*)

The reload() method is used to reload the current document.

The reload() method does the same as the reload button in your browser.

Related Pages:

https//www.w3schools.com/jsref/met_loc_reload.asp

Parameters

force_get – Optional. Specifies the type of reloading: false - Default. Reloads the current page from the cache true - Reloads the current page from the server

classmethod replace(*url: Union[str, JsDataModel]*, *secured: bool = False*) → JsFunction

The replace() method replaces the current document with a new one.

The difference between this method and assign(), is that replace() removes the URL of the current document from the document history, meaning that it is not possible to use the "back" button to navigate back to the original document.

Related Pages:

https//www.w3schools.com/jsref/met_loc_replace.asp

Parameters

- **url** – Specifies the URL of the page to navigate to
- **secured** – Optional. If the http is missing. This will be used to fix the url

property search: JsString

The search property sets or returns the querystring part of a URL, including the question mark (?).

Related Pages:

https//www.w3schools.com/jsref/prop_loc_search.asp

Returns

A String, representing the querystring part of a URL, including the question mark (?).

url(*params: Optional[Union[dict, JsDataModel]] = None*, *removed_params: Optional[List[str]] = None*) → JsString

Get the current url value. This function can also apply some filters on the existing parameters.

Parameters

- **params** – Parameters to be changed / added
- **removed_params** – Parameters to be removed

property urlSearchParams: *URLSearchParams*

The URLSearchParams() constructor creates and returns a new URLSearchParams object.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams/URLSearchParams

class epyk.core.js.Js.JsLocation.**URLSearchParams**(*query: str*)

append(*key: Union[str, JsDataModel]*, *value: Any*)

Append a key, value to the url parameter object.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

- **key** – The url parameter
- **value** – The value to be appended to the URL

delete(*key*)

The delete() method of the URLSearchParams interface deletes the given search parameter and all its associated values, from the list of all search parameters.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams/delete

Parameters

key –

get(*key: str*, *default: Optional[Any] = None*)

Get the value of a request parameter in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

- **key** – The url parameter
- **default** – Optional. The default value

getAll(*key: Union[str, JsDataModel]*)

Get all the values of a request parameter in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

key – The url parameter

has(*key: Union[str, JsDataModel]*)

Check if a given parameter is in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

key – The url parameter

set(*key: str*, *value: Any*)

Set the value of a request parameter in the url.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams

Parameters

- **key** – The url parameter
- **value** – The value to set

5.8.6.2.7 Navigator

5.8.6.2.8 Window

epyk.core.js.Js.**JsWindow**

alias of <module 'epyk.core.js.JsWindow' from '../epyk/core/js/JsWindow.py'>

5.8.6.2.9 WebWorkers

Web Workers are a simple means for web content to run scripts in background threads. The worker thread can perform tasks without interfering with the user interface.

It is possible to create and to use web worker with Epyk. To do so it is possible to use them in a dedicated page or in a Jupyter Notebook:

```
w2 = page.js.worker()
w2.connect(content='''
self.addEventListener('message', function(e) {
  var data = e.data; console.log(data);
  switch (data.cmd) {
    case 'add':
      self.postMessage('Result: ' + (data.value1 + data.value2 + data.value3)); break;
    case 'mult':
      self.postMessage('Result: ' + (data.value1 * data.value2 * data.value3)); break;
    case 'stop':
      self.postMessage('WORKER STOPPED: ' + data.msg + '. (buttons will no longer work)
↪');
      self.close(); break;
    default:
      self.postMessage('Unknown command: ' + data.msg);
  };
}, false);
''')

slider = page.ui.slider()
number = page.ui.fields.number()

div = page.ui.div()
page.ui.button("Add").click([w2.postMessage({'cmd': 'add', 'value1': 2},␣
↪components=[(slider, "value2"), (number, "value3")])])
```

(continues on next page)

(continued from previous page)

```
page.ui.button("Mult").click([w2.postMessage({'cmd': 'mult', 'value1': 5},␣
↪components=[(slider, "value2"), (number, "value3")])])

page.ui.button("Stop worker").click([w2.postMessage({'cmd': 'stop'})])
```

More details on the web workers are available in the functions documentation.

5.8.6.2.10 Websocket

class epyk.core.js.Js.JsWebSocket.**WebSocket**(*html_code: Optional[str] = None*, *src: Optional[Union[str, PageModel]] = None*, *secured: bool = False*)

close(*code: int = 1000*, *reason: Optional[Union[JsDataModel, str]] = None*)

When you've finished using the WebSocket connection, call the WebSocket method close()

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications

Parameters

- **code** (*int*) – Optional. The HTTP code to be sent to the server for the closure
- **reason** (*Optional[str]*) – Optional. The message to be sent to the server for the closure

connect(*url: Optional[str] = None*, *port: Optional[int] = None*, *protocol: Optional[Union[list, str]] = None*, *from_config=None*)

In order to communicate using the WebSocket protocol, you need to create a WebSocket object; this will automatically attempt to open the connection to the server.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications

Parameters

- **url** (*str*) – The URL to which to connect; this should be the URL to which the WebSocket server will respond. This should use the URL scheme wss://, although some software may allow you to use the insecure ws:// for local connections.
- **port** (*Optional[int]*) – The application port number.
- **protocol** (*Union[list, str]*) – Either a single protocol string or an array of protocol strings.
- **from_config** –

property http_codes

To get connection state, additionally there's socket.readyState property with values:

Related Pages:

https://tools.ietf.org/html/rfc6455#section-7.4.1

property message

Fired when data is received through a WebSocket. Also available via the onmessage property.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSocket/message_event

onclose(*js_funcs: Optional[Union[list, str]]*, *profile: Optional[Union[bool, dict]] = None*)

Fired when a connection with a WebSocket is closed. Also available via the onclose property.

Related Pages:

https://javascript.info/websocket

Parameters

- **js_funcs** (*Optional[Union[list, str]]*) – Javascript functions.
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

onerror(*js_funcs: Optional[Union[list, str]]*, *profile: Optional[Union[bool, dict]] = None*)

Fired when a connection with a WebSocket has been closed because of an error, such as when some data couldn't be sent. Also available via the onerror property.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications

Parameters

- **js_funcs** (*Optional[Union[list, str]]*) – Javascript functions.
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

onmessage(*js_funcs: Optional[Union[list, str]]*, *profile: Optional[Union[bool, dict]] = None*)

Fired when data is received through a WebSocket. Also available via the onmessage property.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications

Parameters

- **js_funcs** (*Optional[Union[list, str]]*) – Javascript functions.
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

onopen(*js_funcs: Optional[Union[list, str]]*, *profile: Optional[Union[bool, dict]] = None*)

Fired when a connection with a WebSocket is opened. Also available via the onopen property.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications

Parameters

- **js_funcs** (*Optional[Union[list, str]]*) – Javascript functions.
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

property readyState

The WebSocket.readyState read-only property returns the current state of the WebSocket connection.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSocket/readyState

receive(*js_funcs: Optional[Union[list, str]]*, *profile: Optional[Union[bool, dict]] = None*)

Fired when data is received through a WebSocket. Also available via the onmessage property.

Parameters

- **js_funcs** (*Optional[Union[list, str]]*) – Javascript functions.
- **profile** (*Optional[Union[dict, bool]]*) – Optional. A flag to set the component performance storage.

reconnect()

send(*data*)

Basic way to send a text message to the server.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications

Parameters

data – String. The message to be sent

sendText(*components: List[HtmlModel]*, *attrs: Optional[dict] = None*)

Send a complex message from components.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API/Writing_WebSocket_client_applications

Parameters

- **components** (*List[primitives.HtmlModel]*) – The list of HTML components (it will get the dom.content automatically)
- **attrs** (*dict*) – Optional. Attach some static attributes to the request

property states

To get connection state, additionally there's socket.readyState property with values:

Related Pages:

https://javascript.info/websocket

5.8.6.2.11 Performance

class epyk.core.js.Js.JsPerformance.**JsPerformance**(*page: Optional[PageModel] = None*)

add_profiling(*js_funcs: Optional[Union[list, str]]*)

Wrap the Javascript functions with function to asset on the execution time.

Usage:

```
page.js.performance.add_profiling(fncs['content'])
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/now

Parameters
js_funcs (*Optional[Union[list, str]]*) – The Javascript functions.

Returns
The profile variable name

clearMarks(*name: Optional[str] = None*)

The clearMarks() method removes the named mark from the browser's performance entry buffer. If the method is called with no arguments, all performance entries with an entry type of "mark" will be removed from the performance entry buffer.

Usage:

```
performance.clearMarks("a")
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/clearMarks

Parameters
name (*Optional[str]*) – Optional. The mark name.

Returns
Void, the String for the Javascript side

clearMeasures(*name: Optional[str] = None*)

The clearMeasures() method removes the named measure from the browser's performance entry buffer. If the method is called with no arguments, all performance entries with an entry type of "measure" will be removed from the performance entry buffer.

Usage:

```
performance.clearMeasures("a");
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/clearMeasures

Parameters
name (*Optional[str]*) – Optional. The name of the mark to be cleared.

Returns
Void, the String for the Javascript side

clearResourceTimings()

The clearResourceTimings() method removes all performance entries with an entryType of "resource" from the browser's performance data buffer and sets the size of the performance data buffer to zero. To set the size of the browser's performance data buffer, use the Performance.setResourceTimingBufferSize() method.

Usage:

```
performance.clearResourceTimings()
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/clearResourceTimings

Returns
This method has no return value, but only the String for the Javascript side

getEntries()

The getEntries() method returns a list of all PerformanceEntry objects for the page. The list's members (entries) can be created by making performance marks or measures (for example by calling the mark() method) at explicit points in time. If you are only interested in performance entries of certain types or that have certain names, see getEntriesByType() and getEntriesByName().

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/getEntries

Returns
An array of PerformanceEntry objects

getEntriesByName(*name: Union[JsDataModel, str]*, *entry_type: Optional[str] = None*)

The getEntriesByName() method returns a list of PerformanceEntry objects for the given name and type. The list's members (entries) can be created by making performance marks or measures (for example by calling the mark() method) at explicit points in time.

Usage:

```
performance.getEntriesByName("Begin", "mark")
```

Related Pages:

https//developer.mozilla.org/en-US/docs/Web/API/Performance/getEntriesByName

Parameters

- **name** (*Union[primitives.JsDataModel, str]*) – The name of the entry to retrieve.
- **entry_type** (*Optional[str]*) – Optional. The type of entry to retrieve such as "mark".

Returns
A list of PerformanceEntry objects that have the specified name and type

getEntriesByType(*entry_type: str*)

The getEntriesByType() method returns a list of PerformanceEntry objects for a given type. The list's members (entries) can be created by making performance marks or measures (for example by calling the mark() method) at explicit points in time.

Usage:

```
performance.getEntriesByType("mark")
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/getEntriesByType

Parameters
entry_type (*str*) – The type of entry to retrieve such as "mark".

Returns
A list of PerformanceEntry objects that have the specified type.

mark(*name: Union[JsDataModel, str]*)

The mark() method creates a timestamp in the browser's performance entry buffer with the given name. The application defined timestamp can be retrieved by one of the Performance interface's getEntries*() methods (getEntries(), getEntriesByName() or getEntriesByType()).

Usage:

```
performance.mark("a")
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/mark

Parameters
name (*Union[primitives.JsDataModel, str]*) – A DOMString representing the name of the mark.

Returns
Void, The String for the Javascript side.

measure(*name: Union[JsDataModel, str]*, *start_mark: Optional[str] = None*, *end_mark: Optional[str] = None*)

The measure() method creates a named timestamp in the browser's performance entry buffer between marks, the navigation start time, or the current time.

When measuring between two marks, there is a start mark and end mark, respectively. The named timestamp is referred to as a measure.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/measure

Parameters

- **name** (*str*) – A DOMString representing the name of the measure.
- **start_mark** (*Optional[str]*) – Optional. A DOMString representing the name of the measure's starting mark.
- **end_mark** (*Optional[str]*) – Optional, A DOMString representing the name of the measure's ending mark.

Returns
Void, The String for the Javascript side

property now

The performance.now() method returns a DOMHighResTimeStamp, measured in milliseconds.

Usage:

```
var t0 = performance.now();
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/now

Returns
A Javascript Number

setResourceTimingBufferSize(*max_size: int*)

The setResourceTimingBufferSize() method sets the browser's resource timing buffer size to the specified number of "resource" performance entry type objects.

Usage:

```
performance.setResourceTimingBufferSize(maxSize)
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/setResourceTimingBufferSize

Parameters
max_size (*int*) – The buffer maximum size.

Returns
Void, the String for the Javascript side.

toJSON()

The toJSON() method of the Performance interface is a standard serializer: it returns a JSON representation of the performance object's properties.

Usage:

```
performance.toJSON()
```

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/API/Performance/toJSON

Returns
A JSON object that is the serialization of the Performance object.

5.8.7 Standards

5.8.7.1 Header Module

class epyk.core.html.Header.**Header**(*page: Optional[PageModel] = None*)

add_code(*code: str*, *attrs: Optional[dict] = None*)

Add a JavaScript tag to the HTML page.

The code will be added in a script tag.

Parameters

- **code** – The JavaScript code to be added to the page
- **attrs** – optional. The various attributes to be added to the script tag

add_script(*src: str*, *attrs: Optional[dict] = None*)

Add a JavaScript tag to the HTML page.

The script will be added in a script tag.

Parameters

- **src** – The script path added to the page
- **attrs** – optional. The various attributes to be added to the script tag

base(*url: str*)

Specify a dedicated path for the relative paths in the page.

Basically the images will use this path as base if present in the page.

Related Pages:

https://www.w3schools.com/tags/tag_base.asp

Parameters

url – The url path

dev(*icon: Optional[str] = None*)

Change the tab icon to highlight this page is still in dev mode.

Usage:

```
page = Report()
page.headers.dev()
```

Parameters

icon – Optional. The url path of the icon

favicon(*url: str*, *rel: str = 'icon'*, *sizes: Optional[str] = None*, *img_type: Optional[str] = None*)

The <link> tag defines a link between a document and an external resource.

The <link> tag is used to link to external style sheets.

Usage:

```
rptObj.headers.favicon('https://github.com/favicon.ico')
```

Related Pages:

https://developer.mozilla.org/fr/docs/Web/HTML/Element/link https://www.w3schools.com/tags/tag_link.asp

Parameters

- **url** – The url full path

- **rel** – Optional
- **sizes** – Optional
- **img_type** – Optional

property icons

Property to defined / add more icons to the page header. Some browsers (like Safari or Opera) could require specify tags in the page.

property links

The various HTML page header links.

Related Pages:

https://www.w3schools.com/jsref/dom_obj_link.asp https://developer.mozilla.org/fr/docs/Web/HTML/Element/link

property meta: Meta

Property to the Meta data dictionary for the HTML page.

Metadata is data (information) about data.

The <meta> tag provides metadata about the HTML document. Metadata will not be displayed on the page, but will be machine parsable.

Usage:

```
page.headers.meta
```

Related Pages:

https://www.w3schools.com/tags/tag_meta.asp

title(*value: str*)

The <title> tag is required in all HTML documents and it defines the title of the document.

You can NOT have more than one <title> element in an HTML document.

Usage:

```
page.headers.title("title")
```

Related Pages:

https://www.w3schools.com/tags/tag_title.asp

Parameters
value – The title value for the page

class epyk.core.html.Header.**Icons**(*header*)

apple_touch_icon(*url: str*, *sizes: Optional[str] = None*)

Related Pages:

https://developer.apple.com/library/archive/documentation/AppleApplications/Reference/SafariWebContent/ConfiguringWebApplications/ConfiguringWebApplications.html#//apple_ref/doc/uid/TP40002051-CH3-SW4

Parameters

- **url** – The path for the svg file
- **sizes** – Optional. The size for 25x25

apple_touch_startup_icon(*url: str*, *sizes: Optional[str] = None*)

Related Pages:

https://developer.apple.com/library/archive/documentation/AppleApplications/Reference/SafariWebContent/ConfiguringWebApplications/ConfiguringWebApplications.html#//apple_ref/doc/uid/TP40002051-CH3-SW4

Parameters

- **url** – The path for the svg file
- **sizes** – Optional. The size for 25x25

gif(*url: str*, *sizes: Optional[str] = None*)

Related Pages:

https://www.w3schools.com/tags/att_link_sizes.asp

Parameters

- **url** – The path for the gif
- **sizes** – Optional. The size in a format 25x25

icon(*url: str*, *sizes: Optional[str] = None*, *img_type: Optional[str] = None*)

Set the icon for the page.

Related Pages:

https://developer.mozilla.org/fr/docs/Web/HTTP/Basics_of_HTTP/MIME_types/Common_types

Parameters

- **url** – The url of the icon on the server
- **sizes** – Optional. The size of the icon
- **img_type** – Optional. The type of picture

svg(*url: str*, *sizes: Optional[str] = None*)

Related Pages:

https://www.w3schools.com/tags/att_link_sizes.asp

Parameters

- **url** – The path for the svg file
- **sizes** – Optional. The size for 25x25

class epyk.core.html.Header.**Links**(*header*)

alternative(*href: str*, *file_type: str = 'text/css'*, *media: Optional[str] = None*)

Specifying alternative style sheets in a web page provides a way for users to see multiple versions of a page, based on their needs or preferences.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/HTML/Element/link

Parameters

- **href** – The link path for the stylesheet page
- **file_type** – Optional. The type of the href tag
- **media** – Optional. This resource will then only be loaded if the media condition is true

dns_prefetch(*href: str*, *media: Optional[str] = None*, *cross_origin: bool = False*)

The dns-prefetch keyword for the rel attribute of the <link> element is a hint to browsers that the user is likely to need resources from the target resource's origin, and therefore the browser can likely improve the user experience by preemptively performing DNS resolution for that origin.

Related Pages:

https://www.keycdn.com/blog/resource-hints https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types/dns-prefetch

Parameters

- **href** – The link path for the stylesheet page
- **media** – Optional. This resource will then only be loaded if the media condition is true
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from different website.

icon(*href: str*, *cross_origin: bool = False*)

Defines a resource for representing the page in the user interface, usually an icon (auditory or visual). In the browser, it is usually referred to as the favicon.

If there are multiple <link rel="icon">s, the browser uses their media, type, and sizes attributes to select the most appropriate icon. If several icons are equally appropriate, the last one is used. If the most appropriate icon is later found to be inappropriate, for example because it uses an unsupported format, the browser proceeds to the next-most appropriate, and so on.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types

Parameters

- **href** – The link path for the stylesheet page
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from different

website.

imports(*href: str*, *file_type: str = ''*, *media: Optional[str] = None*, *rel: str = 'import'*)

HTML Imports is intended to be the packaging mechanism for web components, but you can also use HTML Imports by itself.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/Web_Components/HTML_Imports

Parameters

- **href** – The link path for the stylesheet page
- **file_type** – Optional. The type of the href tag
- **media** – Optional. This resource will then only be loaded if the media condition is true
- **rel** – Optional. This attribute names a relationship of the linked document to the current document

manifest(*href: str*, *file_type: str = ''*, *media: Optional[str] = None*)

The manifest keyword for the rel attribute of the <link> element indicates that the target resource is a Web app manifest.

Web app manifests are deployed in your HTML pages using a <link> element in the <head> of a document:

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types/manifest https://developer.mozilla.org/en-US/docs/Web/Manifest

Parameters

- **href** – The link path for the stylesheet page
- **file_type** – Optional. The type of the href tag
- **media** – Optional. This resource will then only be loaded if the media condition is true

pingback(*href: str*, *cross_origin: bool = False*)

Pingbacks (also known as trackbacks) are a form of automated comment for a page or post, created when another WordPress blog links to that page or post.

Related Pages:

https://www.keycdn.com/blog/resource-hints https://wordpress.stackexchange.com/questions/116079/what-is-rel-pingback-and-what-is-the-use-of-this-in-my-website

Parameters

- **href** – The link path for the stylesheet page
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from

different website.

preconnect(*href: str*, *media: Optional[str] = None*, *cross_origin: bool = False*)

The preconnect directive allows the browser to setup early connections before an HTTP request is actually sent to the server. This includes DNS lookups, TLS negotiations, TCP handshakes. This in turn eliminates roundtrip latency and saves time for users.

Related Pages:

https://www.keycdn.com/blog/resource-hints https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types/preconnect

Parameters

- **href** – The link path for the stylesheet page
- **media** – Optional. This resource will then only be loaded if the media condition is true
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from different website.

prefetch(*href: str*, *media: Optional[str] = None*, *cross_origin: bool = False*)

The prefetch keyword for the rel attribute of the <link> element is a hint to browsers that the user is likely to need the target resource for future navigations, and therefore the browser can likely improve the user experience by preemptively fetching and caching the resource.

Related Pages:

https://www.keycdn.com/blog/resource-hints https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types/prefetch

Parameters

- **href** – The link path for the stylesheet page
- **media** – Optional. This resource will then only be loaded if the media condition is true
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from different website.

preload(*href: str*, *file_type: str = ''*, *media: Optional[str] = None*, *cross_origin: bool = False*)

The preload keyword for the rel attribute of the <link> element indicates the user is highly likely to require the target resource for the current navigation, and therefore the browser must preemptively fetch and cache the resource.

Related Pages:

https://www.keycdn.com/blog/resource-hints https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types/preload

Parameters

- **href** – The link path for the stylesheet page
- **file_type** – Optional. The type of the href tag
- **media** – Optional. This resource will then only be loaded if the media condition is true
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from different website.

prerender(*href: str*, *media: Optional[str] = None*, *cross_origin: bool = False*)

The prerender keyword for the rel attribute of the <link> element is a hint to browsers that the user might need the target resource for the next navigation, and therefore the browser can likely improve the user experience by preemptively fetching and processing the resource — for example, by fetching its subresources or performing some rendering in the background offscreen.

Related Pages:

https://www.keycdn.com/blog/resource-hints https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types/prerender

Parameters

- **href** – The link path for the stylesheet page

- **media** – Optional. This resource will then only be loaded if the media condition is true
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from different website.

shortlink(*href: str*)

Some websites create short links to make sharing links via instant messaging easier.

Related Pages:

https://www.keycdn.com/blog/resource-hints

Parameters
href – The url path

stylesheet(*href: str*, *file_type: str = 'text/css'*, *media: Optional[str] = None*, *rel: str = 'stylesheet'*, *cross_origin: bool = False*)

Link the page to a style sheet.

Related Pages:

https://developer.mozilla.org/en-US/docs/Web/HTML/Element/link

Parameters

- **href** – The link path for the stylesheet page
- **file_type** – Optional. The type of the href tag
- **media** – Optional. This resource will then only be loaded if the media condition is true
- **rel** – Optional. This attribute names a relationship of the linked document to the current document
- **cross_origin** – Optional. Specify to the browser to enable the cross origin to get resource from different website.

class epyk.core.html.Header.**Meta**(*page: PageModel*)

author(*name: str*)

Define the author of the page.

Usage:

```
page.headers.meta.author('epykure')
```

Related Pages:

https://www.w3schools.com/tags/att_meta_name.asp

Parameters
name – The author name

charset(*value: str = 'utf-8'*)

Define the character set used.

Usage:

```
page.headers.meta.charset("test")
```

Related Pages:

https://www.w3schools.com/tags/tag_meta.asp https://www.w3schools.com/tags/att_meta_charset.asp

Parameters
value – Optional. The charset encoding

custom(*name: str*, *content: str*)

Bespoke function to add other meta tags.

Usage:

```
page.headers.meta.custom('language', 'python')
```

Related Pages:

https://www.w3schools.com/tags/att_meta_name.asp

Parameters

- **name** – The name for the meta tag
- **content** – The value of the meta tag

description(*value: str*)

Define a description of your web page.

Usage:

```
page.headers.meta.description('This is a description')
```

Related Pages:

https://www.w3schools.com/html/html_head.asp

Parameters
value – The report description

http_equiv(*name: str*, *content: str*)

Bespoke function to add other http-equiv tags to the meta section.

Usage:

```
rptObj.headers.meta.http_equiv('language', 'python')
```

Related Pages:

https://www.w3schools.com/tags/att_meta_http_equiv.asp

Parameters

- **name** – The name for the meta tag
- **content** – The value of the meta tag

keywords(*content: Union[list, str]*)

Define keywords for search engine.

Usage:

```
page.headers.meta.keywords(['python', 'javascript'])
```

Related Pages:

https://www.w3schools.com/html/html_head.asp

Parameters
content – The keyword data

refresh(*time: int*)

Refresh document every X seconds.

Usage:

```
page.headers.meta.refresh(10)
```

Related Pages:

https://www.w3schools.com/tags/tag_meta.asp

Parameters
time – A time in second

viewport(*attrs: Optional[dict] = None*)

Setting the viewport to make your website look good on all devices.

Usage:

```
page.headers.meta.viewport({"width": "device-width"})
```

Related Pages:

https://www.w3schools.com/html/html_head.asp https://www.w3schools.com/tags/tag_meta.asp

Parameters
attrs – Optional. The view port attributes

5.8.7.2 Aria Module

class epyk.core.html.Aria.**Aria**(*component: HtmlModel*)

property atomic: bool

Indicates whether assistive technologies will present all, or only parts of, the changed region based on the change notifications defined by the aria-relevant attribute.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-atomic

property autocomplete

Indicates whether inputting text could trigger display of one or more predictions of the user's intended value for an input and specifies how predictions would be presented if they are made.

The aria-autocomplete property describes the type of interaction model a textbox, searchbox, or combobox employs when dynamically helping users complete text input. It distinguishes between two models: the inline model (aria-autocomplete="inline") that presents a value completion prediction inside the text input and the list model (aria-autocomplete="list") that presents a collection of possible values in a separate element that pops up adjacent to the text input. It is possible for an input to offer both models at the same time (aria-autocomplete="both").

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-autocomplete

property busy

Indicates an element is being modified and that assistive technologies MAY want to wait until the modifications are complete before exposing them to the user.

The default value of aria-busy is false for all elements. When aria-busy is true for an element, assistive technologies MAY ignore changes to content owned by that element and then process all changes made during the busy period as a single, atomic update when aria-busy becomes false.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-busy

property checked: bool

Indicates the current "checked" state of checkboxes, radio buttons, and other widgets. See related aria-pressed and aria-selected.

The aria-checked attribute indicates whether the element is checked (true), unchecked (false), or represents a group of other elements that have a mixture of checked and unchecked values (mixed). Most inputs only support values of true and false, but the mixed value is supported by certain tri-state inputs such as a checkbox or menuitemcheckbox.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-checked

property colcount

Defines the total number of columns in a table, grid, or treegrid. See related aria-colindex.

If all of the columns are present in the DOM, it is not necessary to set this attribute as the user agent can automatically calculate the total number of columns. However, if only a portion of the columns is present in the DOM at a given moment, this attribute is needed to provide an explicit indication of the number of columns in the full table.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-colcount

property colindex

Defines an element's column index or position with respect to the total number of columns within a table, grid, or treegrid. See related aria-colcount and aria-colspan.

If all of the columns are present in the DOM, it is not necessary to set this attribute as the user agent can automatically calculate the column index of each cell or gridcell. However, if only a portion of the columns is present in the DOM at a given moment, this attribute is needed to provide an explicit indication of the column of each cell or gridcell with respect to the full table.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-colindex

property colspan

Defines the number of columns spanned by a cell or gridcell within a table, grid, or treegrid. See related aria-colindex and aria-rowspan.

This attribute is intended for cells and gridcells which are not contained in a native table. When defining the column span of cells or gridcells in a native table, authors SHOULD use the host language's attribute instead of aria-colspan. If aria-colspan is used on an element for which the host language provides an equivalent attribute, user agents MUST ignore the value of aria-colspan and instead expose the value of the host language's attribute to assistive technologies.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-colspan

property controls

Identifies the element (or elements) whose contents or presence are controlled by the current element. See related aria-owns.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-controls

property current

Indicates the element that represents the current item within a container or set of related elements.

The aria-current attribute is an enumerated type. Any value not included in the list of allowed values SHOULD be treated by assistive technologies as if the value true had been provided. If the attribute is not present or its value is an empty string or undefined, the default value of false applies and the aria-current state MUST NOT be exposed by user agents or assistive technologies.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-current

custom(*key*, *val*)

Parameters

- **key** –
- **val** –

property describedby

Identifies the element (or elements) that describes the object. See related aria-labelledby.

The aria-labelledby attribute is similar to the aria-describedby in that both reference other elements to calculate a text alternative, but a label should be concise, where a description is intended to provide more verbose information.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-describedby

property details

Identifies the element that provides a detailed, extended description for the object. See related aria-describedby.

The aria-details attribute references a single element that provides more detailed information than would normally be provided by aria-describedby. It enables assistive technologies to make users aware of the availability of an extended description as well as navigate to it. Authors SHOULD ensure the element referenced by aria-details is visible to all users.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-details

property disabled: bool

Indicates that the element is perceivable but disabled, so it is not editable or otherwise operable. See related aria-hidden and aria-readonly.

For example, irrelevant options in a radio group may be disabled. Disabled elements might not receive focus from the tab order. For some disabled elements, applications might choose not to support navigation to descendants. In addition to setting the aria-disabled attribute, authors SHOULD change the appearance (grayed out, etc.) to indicate that the item has been disabled.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-disabled

property errormessage

Identifies the element that provides an error message for the object. See related aria-invalid and aria-describedby.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-errormessage

property expanded: bool

Indicates whether the element, or another grouping element it controls, is currently expanded or collapsed.

For example, this indicates whether a portion of a tree is expanded or collapsed. In other instances, this may be applied to page sections to mark expandable and collapsible regions that are flexible for managing content density. Simplifying the user interface by collapsing sections may improve usability for all, including those with cognitive or developmental disabilities.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-expanded

property flowto

Identifies the next element (or elements) in an alternate reading order of content which, at the user's discretion, allows assistive technology to override the general default of reading in document source order.

When aria-flowto has a single IDREF, it allows assistive technologies to, at the user's request, forego normal document reading order and go to the targeted object. However, when aria-flowto is provided with multiple IDREFS, assistive technologies SHOULD present the referenced elements as path choices.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-flowto

get(*key: str*, *dfl=None*)

Get the value of a custom aria.

Parameters

- **key** – The key definition of the aria.
- **dfl** – The default value.

property haspopup: bool

Indicates the availability and type of interactive popup element, such as menu or dialog, that can be triggered by an element.

A popup element usually appears as a block of content that is on top of other content. Authors MUST ensure that the role of the element that serves as the container for the popup content is menu, listbox, tree, grid, or dialog, and that the value of aria-haspopup matches the role of the popup container.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-haspopup

property hidden: bool

Indicates whether the element is exposed to an accessibility API. See related aria-disabled.

User agents determine an element's hidden status based on whether it is rendered, and the rendering is usually controlled by CSS. For example, an element whose display property is set to none is not rendered. An element is considered hidden if it, or any of its ancestors are not rendered or have their aria-hidden attribute value set to true.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-hidden

property invalid: bool

Indicates the entered value does not conform to the format expected by the application. See related aria-errormessage.

If the value is computed to be invalid or out-of-range, the application author SHOULD set this attribute to true. User agents SHOULD inform the user of the error. Application authors SHOULD provide suggestions for corrections if they are known.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-invalid

property keyshortcuts

Indicates keyboard shortcuts that an author has implemented to activate or give focus to an element.

The value of the aria-keyshortcuts attribute is a space-delimited list of keyboard shortcuts that can be pressed to activate a command or textbox widget. The keys defined in the shortcuts represent the physical keys pressed and not the actual characters generated. Each keyboard shortcut consists of one or more tokens delimited by the plus sign ("+") representing zero or more modifier keys and exactly one non-modifier key that must be pressed simultaneously to activate the given shortcut.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-keyshortcuts

property label

Defines a string value that labels the current element. See related aria-labelledby.

The purpose of aria-label is the same as that of aria-labelledby. It provides the user with a recognizable name of the object. The most common accessibility API mapping for a label is the accessible name property.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-label

property labelledby

Identifies the element (or elements) that labels the current element. See related aria-describedby.

The purpose of aria-labelledby is the same as that of aria-label. It provides the user with a recognizable name of the object. The most common accessibility API mapping for a label is the accessible name property.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-label

property level

Defines the hierarchical level of an element within a structure.

This can be applied inside trees to tree items, to headings inside a document, to nested grids, nested tablists and to other structural items that may appear inside a container or participate in an ownership hierarchy. The value for aria-level is an integer greater than or equal to 1.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-level

property live

Indicates that an element will be updated, and describes the types of updates the user agents, assistive technologies, and user can expect from the live region.

The values of this attribute are expressed in degrees of importance. When regions are specified as polite, assistive technologies will notify users of updates but generally do not interrupt the current task, and updates take low priority. When regions are specified as assertive, assistive technologies will immediately notify the user, and could potentially clear the speech queue of previous updates.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-level

property modal

Indicates whether an element is modal when displayed.

The aria-modal attribute is used to indicate that the presence of a "modal" element precludes usage of other content on the page. For example, when a modal dialog is displayed, it is expected that the user's interaction is limited to the contents of the dialog, until the modal dialog loses focus or is no longer displayed.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-modal

property multiline: bool

Indicates whether a text box accepts multiple lines of input or only a single line.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-multiline

property multiselectable

Indicates that the user may select more than one item from the current selectable descendants.

Authors SHOULD ensure that selected descendants have the aria-selected attribute set to true, and selectable descendant have the aria-selected attribute set to false. Authors SHOULD NOT use the aria-selected attribute on descendants that are not selectable.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-multiselectable

property orientation

Indicates whether the element's orientation is horizontal, vertical, or unknown/ambiguous.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-multiselectable

property owns

Identifies an element (or elements) in order to define a visual, functional, or contextual parent/child relationship between DOM elements where the DOM hierarchy cannot be used to represent the relationship. See related aria-controls.

The value of the aria-owns attribute is a space-separated list of IDREFS that reference one or more elements in the document by ID. The reason for adding aria-owns is to expose a parent/child contextual relationship to assistive technologies that is otherwise impossible to infer from the DOM.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-owns

property placeholder

Defines a short hint (a word or short phrase) intended to aid the user with data entry when the control has no value. A hint could be a sample value or a brief description of the expected format.

Authors SHOULD NOT use aria-placeholder instead of a label as their purposes are different: The label indicates what kind of information is expected. The placeholder text is a hint about the expected value. See related aria- labelledby and aria-label.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-placeholder

property posinset

Defines an element's number or position in the current set of listitems or treeitems. Not required if all elements in the set are present in the DOM. See related aria-setsize.

If all items in a set are present in the document structure, it is not necessary to set this attribute, as the user agent can automatically calculate the set size and position for each item. However, if only a portion of the set is present in the document structure at a given moment, this property is needed to provide an explicit indication of an element's position.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-posinset

property pressed: bool

Indicates the current "pressed" state of toggle buttons. See related aria-checked and aria-selected.

Toggle buttons require a full press-and-release cycle to change their value. Activating it once changes the value to true, and activating it another time changes the value back to false. A value of mixed means that the values of more than one item controlled by the button do not all share the same value. Examples of mixed-state buttons are described in WAI-ARIA Authoring Practices [wai-aria-practices-1.1]. If the attribute is not present, the button is not a toggle button.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-pressed

property readonly: bool

Indicates that the element is not editable, but is otherwise operable. See related aria-disabled.

This means the user can read but not set the value of the widget. Readonly elements are relevant to the user, and application authors SHOULD NOT restrict navigation to the element or its focusable descendants. Other actions such as copying the value of the element are also supported. This is in contrast to disabled elements, to which applications might not allow user navigation to descendants.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-readonly

property relevant: bool

Indicates what notifications the user agent will trigger when the accessibility tree within a live region is modified. See related aria-atomic.

The attribute is represented as a space delimited list of the following values: additions, removals, text; or a single catch-all value all.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-relevant

property role

Example of roles Roles: button, checkbox, menuitem, menuitemcheckbox, menuitemradio, option, radio, switch, tab or treeitem

property roledescription

Defines a human-readable, author-localized description for the role of an element.

Some assistive technologies, such as screen readers, present the role of an element as part of the user experience. Such assistive technologies typically localize the name of the role, and they may customize it as well. Users of these assistive technologies depend on the presentation of the role name, such as "region," "button," or "slider," for an understanding of the purpose of the element and, if it is a widget, how to interact with it.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-roledescription

property rowindex

Defines an element's row index or position with respect to the total number of rows within a table, grid, or treegrid. See related aria-rowcount and aria-rowspan.

If all of the rows are present in the DOM, it is not necessary to set this attribute as the user agent can automatically calculate the index of each row. However, if only a portion of the rows is present in the DOM at a given moment, this attribute is needed to provide an explicit indication of each row's position with respect to the full table.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-rowindex

property rowspan

Defines the number of rows spanned by a cell or gridcell within a table, grid, or treegrid. See related aria-rowindex and aria-colspan.

This attribute is intended for cells and gridcells which are not contained in a native table. When defining the row span of cells or gridcells in a native table, authors SHOULD use the host language's attribute instead of aria-rowspan. If aria-rowspan is used on an element for which the host language provides an equivalent attribute, user agents MUST ignore the value of aria-rowspan and instead expose the value of the host language's attribute to assistive technologies.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-rowspan

property selected: bool

Indicates the current "selected" state of various widgets. See related aria-checked and aria-pressed.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-selected

set(*arias: dict*)

Set multiple aria properties

Parameters
arias –

property setsize

Defines the number of items in the current set of listitems or treeitems. Not required if all elements in the set are present in the DOM. See related aria-posinset.

This property is marked on the members of a set, not the container element that collects the members of the set. To orient the user by saying an element is "item X out of Y," the assistive technologies would use X equal to the aria-posinset attribute and Y equal to the aria-setsize attribute.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-setsize

property sort: bool

Defines the maximum allowed value for a range widget.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-sort

property valuemax

Defines the maximum allowed value for a range widget.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-valuemax

property valuemin

Defines the minimum allowed value for a range widget.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-valuemin

property valuenow

Defines the current value for a range widget. See related aria-valuetext.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-valuenow

property valuetext

Defines the human-readable text alternative of aria-valuenow for a range widget.

Related Pages:

https://www.w3.org/TR/wai-aria-1.1/#aria-valuetext

5.8.7.3 KeyCodes Module

class epyk.core.html.KeyCodes.**KeyCode**(*component: Optional[HtmlModel] = None*, *source_event: Optional[str] = None*, *page=None*)

alt(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

any(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *source_event: Optional[str] = None*)

Trigger event for any keycodes.

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **source_event** – Optional. The source component for the event

backspace(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

control(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

custom(*rule: str*, *js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *source_event: Optional[str] = None*)

Parameters

- **rule** – Bespoke keys combination
- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage

- **source_event** – Optional. The source component for the event

delete(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Keycode 46, the sup key

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

down(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

enter(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

escape(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Keycode 27, the escape key.

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

get_event()

Return the complete definition for the key event.

key(*key_code: int*, *js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **key_code** – The key code
- **js_funcs** – Javascript functions

- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

left(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

right(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

save(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **source_event** – Optional. The source component for the event

shift(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

shift_with(*key: str*, *js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *source_event: Optional[str] = None*)

Parameters

- **key** (*str*) –
- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **source_event** – Optional. The source component for the event

space(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Add an event on the space key.

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

tab(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

up(*js_funcs: Union[list, str]*, *profile: Optional[Union[bool, dict]] = None*, *reset: bool = False*, *source_event: Optional[str] = None*)

Parameters

- **js_funcs** – Javascript functions
- **profile** – Optional. A flag to set the component performance storage
- **reset** – Optional. Flag to reset the events sequence
- **source_event** – Optional. The source component for the event

5.8.8 Entities

5.8.8.1 SymbArrows Module

5.8.8.2 SymbCurrencies Module

5.8.9 Symboles

5.8.9.1 EntHtml4 Module

5.8.9.2 EntHtml5_A Module

5.8.9.3 EntHtml5_B Module

5.8.9.4 EntHtml5_C Module

5.8.9.5 EntHtml5_D Module

5.9 External resources

5.9.1 Python Packages

Those packages are not included in the library as we wanted Epyk to be generic and with no dependency those as useful but not mandatory.

This section will illustrate how to link those to Epyk components.

5.9.1.1 Libraries

5.9.1.1.1 Pandas

Note: Most of the components are expecting serializable objects so this is way we are using list of dictionary as a common

---

input source for components.

If you are using `pandas` in your script you can easily convert it to a valid input data by doing the below for example:

```
df = pd.DataFrame({
    "Animal": ["Mouse", "Rabbit", "Dog", "Tiger", "Elefant", "Wale"],
    "Weight [g]": [19, 3000, 40000, 200000, 6000000, 50000000]})

line = page.ui.charts.apex.line(df.to_dict(orient="records"), y_columns=["Weight [g]"],␣
↪x_axis="Animal")
```

This will create a records object using the method `to_dict(orient="records")`

5.9.1.1.2 pandas_datareader

Note: Most of the components are expecting serializable objects so this is way we are using list of dictionary as a common

input source for components.

If you are using `pandas_datareader` in your script you can easily convert it to a valid input data by doing the below for example:

```
start = pd.to_datetime('2020-02-04')
end = pd.to_datetime('today')

tesla_df = data.DataReader('TSLA', 'yahoo', start, end)

columns = ['Close', 'Open', 'Volume']
records = []
for rec in tesla_df[columns].to_records():
  records.append(dict(zip(['Date'] + columns, rec)))
  records[-1]['Date'] = pd.to_datetime(records[-1]['Date']).strftime('%Y-%m-%d')
```

This will create a records object using the method `to_records()`

5.9.1.1.3 Matplotlib

- Documentation: https://matplotlib.org/
- pypi alias: `matplotlib`
- Package Type: Python

Using a simple image component:

```
import epyk as pk

import numpy as np
import matplotlib.pyplot as plt

page = pk.Page()

x = np.arange(0, 15, 0.1)
y = np.sin(x)
plt.plot(x, y)

img1 = page.ui.img(width=(50, "%"))
img1.from_plot(plt)
img1.style.css.display = "inline-block"
```

Using animated image:

```
img1 = page.ui.images.animated("", text="This is a comment", title="Title", width=(49, "%
↪"), url="#")
img1.from_plot(plt)
img1.style.css.borders()
img1.style.css.display = "inline-block"
```

Using the carousel:

```
page = pk.Page()

import numpy as np
import matplotlib.pyplot as plt

carousel = page.ui.images.carousel()

for i in range(10):
  x = np.arange(0, i * 5, 0.1)
  y = np.sin(x)
  plt.plot(x, y)
  carousel.add_plot(plt, width=(220, 'px'))

carousel.set_nav_dots()
```

Using an external package slideshow:

```
page = pk.Page()

import numpy as np
import matplotlib.pyplot as plt

slideshow = page.ui.slideshow()

for i in range(10):
  x = np.arange(0, i * 5, 0.1)
  y = np.sin(x)
  plt.plot(x, y)
  slideshow.add_plot(plt, width=(220, 'px'))
```

5.9.1.2 Servers

5.9.2 JavaScript Packages

The full and up to date list of packages in Epyk is available in the section *Supported Libraries and Frameworks*

This section will illustrate how to use them and also how to learn their API.

5.9.2.1 Libraries

5.9.2.1.1 Slideshow

- Documentation: https://github.com/ganlanyuan/tiny-slider
- NPM alias: `tiny-slider`
- Package Type: JavaScript

The package slideshow from Tiny slider is available in the framework by using the following component:

```
ss = page.ui.slideshow([page.ui.text("Great results %s" % i) for i in range(20)])
```

The above will display a slide object with simple text elements.

Each of the functions and properties, when they are wrapping an core API function, will point from the doc string in the framework to its external documentation. Do not hesitate to have a look at it and either to challenge the library to get new features or to check with us if something does not seem correct.

Options

Then exactly in the same way it is mentioned in the slideshow documentation it is possible to add options to this component. All the options are available from the `component.options` property:

```
ss.options.autoplay = False
ss.options.items = 4
```

The above will disable the autoplay and change the number of items per page. More information in the package documentation available from there Github repository.

Events

All the component events are available from the component `.js` property. Basically by adding the below it will go to the next element when a button is clicked:

```
btn = page.ui.button("Click")
btn.click([
    ss.js.next()
])
```

Note: The js property must be added to a JavaScript event to be rendered as string to the page during the transpiling. Any functions called directly from Python will rendered string which will not be captured in the page object.

Style

This component will have some predefined CSS class in order to change the nav bar and the button but it is possible as any other component to change the style by using the `style.css` property.

5.9.2.1.2 Json Formatter

- Documentation: https://github.com/mohsen1/json-formatter-js
- NPM alias: `json-formatter-js`
- Package Type: JavaScript

The package json-formatter-js is available in the framework by using the following component:

```
js_formatter = page.ui.json({"foo": 42})
```

The above will display a tree object as shown here. https://azimi.me/json-formatter-js/

Each of the functions and properties, when they are wrapping an core API function, will point from the doc string in the framework to its external documentation. Do not hesitate to have a look at it and either to challenge the library to get new features or to check with us if something does not seem correct.

Options

Then exactly in the same way it is mentioned in the documentation it is possible to add options to this component from the Python. All the options are available from the `component.options` property:

```
js_formatter.options.hoverPreviewEnabled = False
```

Events

All the component events are available from the component `.js` property. Basically by adding the below it will open the tree up to n level:

```
btn = page.ui.button("Click")
btn.click([
    js_formatter.js.openAtDepth(3)
])
```

Note: The js property must be added to a JavaScript event to be rendered as string to the page during the transpiling. Any functions called directly from Python will rendered string which will not be captured in the page object.

Style

This component will have some predefined CSS class in order to change the nav bar and the button but it is possible as any other component to change the style by using the `style.css` property.

The below will add a border to the component:

```
js_formatter.style.css.border = "1px solid black"
```

5.9.2.1.3 Font awesome

- Documentation: https://fontawesome.com/
- NPM alias: `font-awesome`
- Package Type: JavaScript

The package `Font-Awesome` is available in the framework by using the following component. It is the default package used for the various icons in the framework:

```
import epyk as pk
from epyk.core.js.packages import JsFontAwesome

page = pk.Page()
icon = page.ui.icons.next()
icon.click([
        page.js.alert("This is a test")
])

icon = page.ui.icon("fab fa-python")
icon.pulse()

icon = page.ui.icon(JsFontAwesome.ICON_CARET_SQUARE_O_UP)
```

It is possible to use the module JsFontAwesome to get all the available icons on the IDE using the autocompletion.

Events

All the component events are available from the component `.js` property. Basically by adding the below it will open the tree up to n level:

```
icon = page.ui.icons.next()
icon.click([page.js.alert("ok")])
```

Note: The js property must be added to a JavaScript event to be rendered as string to the page during the transpiling. Any functions called directly from Python will rendered string which will not be captured in the page object.

Style

This component will have some predefined CSS class in order to change the nav bar and the button but it is possible as any other component to change the style by using the `style.css` property.

The below will add a border to the component:

```
icon.style.css.color = "1px solid black"
```

5.9.2.1.4 Mathjax

- Documentation: https://www.mathjax.org
- NPM alias: `mathjax`
- Package Type: JavaScript

The package **mathjax** is available in the framework by using the following component:

```
formulas = page.ui.texts.formula("$$ E=mc^2 $$", helper="This is a formula")
```

The above will display a maths formulas. More details available on the website: https://www.mathjax.org The content is expecting a LaTeX format.

Style

This component will have some predefined CSS class in order to change the nav bar and the button but it is possible as any other component to change the style by using the `style.css` property.

The below will add a border to the component:

```
formulas.style.css.color = "green"
```

5.9.2.1.5 Jquery UI

- Documentation: https://github.com/jquery/jqueryui.com
- NPM alias: `jqueryui`
- Package Type: JavaScript

This package is a set of UI components which can be used on top of Jquery in order to create input for Dashboards.

DatePicker

To add a data picker:

```
import epyk as pk

page = pk.Page()
date = page.ui.date()
page.outs.jupyter(closure=False)
```

Event

Get the selected value:

```
page.ui.button("Get Value").click([
    page.js.alert(date.dom.content)
])
```

Or when it has changed:

```
date.select([
    page.js.alert(date.dom.content)
])
```

Slider

To add a slider:

```
import epyk as pk

page = pk.Page()
page.ui.slider()
page.outs.jupyter(closure=False)
```

Event

To get the content when the value has changed:

```
slider.change([
    page.js.alert(slider.dom.content)
])
```

Autocompletion

To get toe autocompletion based on an external data source:

```
items = page.ui.inputs.autocomplete(placeholder="select a language and press enter",␣
↪options={"select": True})
selected = page.ui.text()
items.enter([
    selected.build(items.dom.content)
])
page.js.customFile("FR.js", r"http://pypl.github.io/PYPL")
page.body.onReady([items.js.source(pk.js_std.var("graphData")[0])])
```

or from an hard coded source using the component options:

```
items = page.ui.inputs.autocomplete(placeholder="select a language and press enter",␣
↪options={"select": True})
items.options.source = values
```

Events

Use components in an external service call:

```
page.js.post("url", components=[slider, date]).onSuccess([
    ...
])
```

5.9.2.1.6 PivotTable.js

- Documentation: https://pivottable.js.org/examples/
- NPM alias: `pivottable`
- Package Type: JavaScript

The package **pivottable** is available in the framework by using the following component:

```
languages = [
  {"name": 'C', 'type': 'code', 'rating': 17.07, 'change': 12.82},
  {"name": 'Java', 'type': 'code', 'rating': 16.28, 'change': 0.28},
]

tb = page.ui.tables.pivot(languages, ['name'], ['type'])
```

The above will display a pivot table. More details available on the website: https://github.com/nicolaskruchten/pivottable/wiki

Options

It is possible to use aggregator and renderers directly in the fframework. The below will use the sum aggregator on the column rating:

```
tb = page.ui.tables.pivot(languages, ['name'], ['type'])
tb.aggregators.sum('rating')
```

More bespoke ones are also available:

```
tb.aggregators.diffAbsolute('change', 'rating')
```

And it is possible to create custom ones:

```
tb.aggregators.quick("change", "Abs Change", "+= Math.abs(col1)")
```

Different renders are available in the property `page.ui.tables.pivots.`

And all pivottables options are available `tb.options`. A detailled documentation is available for each property:

```
@property
def exclusions(self):
  """
  Description:
  ------------
  Object whose keys are attribute names and values are arrays of attribute values which␣
↪denote records to exclude
  from rendering; used to prepopulate the filter menus that appear on double-click.

  Related Pages:

    https://github.com/nicolaskruchten/pivottable/wiki/Parameters
  """
  return self._config_get({})
```

Style

This component will have some predefined CSS class in order to change the nav bar and the button but it is possible as any other component to change the style by using the `style.css` property.

5.9.2.2 UI Frameworks

5.9.2.3 Web Frameworks

5.10 Library extensions

Anything in Epyk can be customized. The style and the final page layout can be fully changed.

5.10.1 Styles & configurations

Add CSS Inline to a type of components:

```
page.ui.components_skin = {
    "title": {"css": {"color": "#A89A37"}},
    "layouts.hr": {"css": {"background-color": "#f0db4f", "margin-bottom": "10px"}},
    "button": {"css": {"background": "#323330", "color": "#f0db4f", "border-color": "
↪#323330"}}}
```

This will automatically add the a `TestClass` to any component button:

```
page = pk.Page()
page.ui.components_skin = {
      "button": {"cls": ["TestClass"]}
}
page.ui.button("Test")
```

Also the framework is using some internal names for the CSS classes based on the internal Python classes.

For example, the below base classes used for button:

```
class CssButtonBasic(CssStyle.Style):
    _attrs = {'font-weight': 'bold', 'padding': '2px 20px', 'margin': '2px 0 2px 0',
↪'text-decoration': 'none',
              'border-radius': '4px', 'white-space': 'nowrap', 'display': 'inline-block',
↪ 'line-height': '30px',
              '-webkit-appearance': 'none', '-moz-appearance': 'none'}
    _hover = {'text-decoration': 'none', 'cursor': 'pointer'}
    _focus = {'outline': 0}
    _disabled = {'cursor': 'none'}
```

will be referenced with the below names in the CSS section:

```
.cssbuttonbasic {font-weight: bold ;padding: 2px 20px ;margin: 2px 0 2px 0 ;text-
↪decoration: none ;border-radius: 4px ;white-space: nowrap ;display: inline-block ;line-
↪height: 30px ;-webkit-appearance: none ;-moz-appearance: none ;border: 1px solid
↪#f4f9fc ;color: inherit ;background-color: #FFFFFF ;}
.cssbuttonbasic:hover {text-decoration: none ;cursor: pointer ;background-color: #f4f9fc␣
↪!IMPORTANT ;color: #607d8b !IMPORTANT ;border: 1px solid #607d8b !IMPORTANT ;}
.cssbuttonbasic:focus {outline: 0 ;}
.cssbuttonbasic:disabled {cursor: none ;background-color: #263238 ;color: #455a64 ;font-
↪style: italic ;}
```

It is possible to remove or rename this by using shortcut `rename_css_cls` as shown below:

```
pk.rename_css_cls({"cssbuttonbasic": "cssNewName"})
```

To get more details on CSS configurations and the way it is managed for components and the pages use the below lines.

5.10.1.1 Component style

Any component in Epyk can be fully changed and the style can be entirely updated. First to mention that everything done in this library has been achieved thanks to the good quality of the tutorials in w3schools

By default, all the components come with predefined CSS styles and CSS classes. Usually the CSS properties are set in the component functions available in the Interface section.

For example for the `page.ui.buttons.colored`:

```
@html.Html.css_skin()
  def colored(self, text="", icon=None, color=None, width=(None, "%"), height=(None, "px
↪"), align="left",
              html_code=None, tooltip=None, profile=None, options=None):

    component = self.button(text, icon, width, height, align, html_code, tooltip,␣
↪profile, options)
    component.style.css.background = color or self.page.theme.colors[-1]
    component.style.css.border = "1px solid %s" % (color or self.page.theme.colors[-1])
    component.style.css.color = self.page.theme.colors[0]
    component.style.css.margin_top = 5
    component.style.css.margin_bottom = 5
    component.style.css.padding_left = 10
    component.style.css.padding_right = 10
    return component
```

All CSS inline properties are available in any components from the `component.style.css` property

5.10.1.1.1 Using CSS inline

The above example can be changed by using the below lines of code for example to make it fixed to the page:

```
button = page.ui.buttons.colored("Test")
button.style.css.color = "yellow" # Change the text color
button.style.css.position = "fixed"
button.style.css.bottom = 10 # Default will use px
button.style.css.right = 10 # Default will use px
```

This will then render the page the HTML tag:

```
<button data-count="0" id="button_2561249251968" style="font-size:14px;margin:0;
↪padding:0px;padding-left:10px;padding-right:10px;line-height:23px;background:#263238;
↪border:1px solid #263238;color:yellow;margin-top:5px;margin-bottom:5px;position:fixed;
↪bottom:0px;right:0px" class="cssbuttonbasic">Test</button>
```

5.10.1.1.2 Using CSS Inline object

If it possible to do the same thing by using the CssInline shortcut:

```
import epyk as pk

inline = pk.CssInline()
inline.color = "yellow"
inline.position = "fixed"
inline.bottom = 0
inline.right = 0

page = pk.Page()

button = page.ui.buttons.colored("Test")
button.css(inline.to_dict())
```

5.10.1.1.3 Using CSS classes

It is also possible to move away from inline and to use CSS classes instead. CSS classes from a CSSInline object can be done:

```
inline = pk.CssInline()
inline.background_color = "yellow"
inline.position = "fixed"
inline.bottom = 0
inline.right = 0
inline.important(["background_color"])

myClass = inline.to_class("MyClass")

page = pk.Page()

button = page.ui.buttons.colored("Test")
button.style.classList['main'].add(myClass)
```

It is also possible to create an internal CSS class using the below. In this example if it possible to add more information to the CSS class as it is generated from a inline structure:

```
from epyk.core.css.styles.classes import CssStyle

class CssHoverColor(CssStyle.Style):
  _attrs = {'color': 'blue', 'cursor': 'pointer'}
  _hover = {'color': 'orange'}

div1 = page.ui.div("This is a text")
# Attach the class to the component
div1.style.add_classes.custom(CssHoverColor)
```

5.10.1.1.4 Using external CSS

In order to facilitation the use of external data Epyk has multiple ways to integrate external styles.

From text

It is also possible to add a bespoke CSS text manually and then to add your CSS class to the component:

```
page.properties.css.add_text('''
.MyClass {
    ...
}
''')

button = page.ui.buttons.colored("Test")
button.attr["class"].add("MyClass")
```

From file

But is can also be done using a CSS file. This time it is required to register the file:

```
page.css.customFile("animate.min.css", path="https://cdnjs.cloudflare.com/ajax/libs/
↪animate.css/3.7.2")

button = page.ui.buttons.colored("Test")
button.attr["class"].add("MyClass")
```

Note: Do not forget that Epyk is a collaborative library so do not hesitate to share your improvements to ensure other people will benefit from your knowledge.

5.10.1.2 Derived component

The notion of derived component or configuration is heavily used in the framework to provide multiple predefined options to the user.

Thus instead of always using a standard button and then having to update the style every time:

```
class Buttons:

    def button(self, text="", icon=None, width=(None, "%"), height=(None, "px"), align=
↪"left", html_code=None,
           tooltip=None, profile=None, options=None):

        ...

    def large(self, text="", icon=None, width=(None, "%"), height=(None, "px"), align=
↪"left", html_code=None,
          tooltip=None, profile=None, options=None):
        ...
```

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```
    def normal(self, text="", icon=None, width=(None, "%"), height=(None, "px"), align=
↪"left", html_code=None,
           tooltip=None, profile=None, options=None):
          ...

    def run(self, text="", width=(None, "%"), height=(None, "px"), align="left", html_
↪code=None, tooltip=None,
        profile=None, options=None):
```

Those configurations are coming from bespoke CSS style which have been added as shortcut to assist the creation of rich web page. This can be seen as a toolbox with shortcut to help the web development.

As a general rule derived component have always the same signature to make easy the migration from one to another within the same component category.

Note: Do not hesitate to propose your configuration to be added as derived components to the framework.

5.10.1.3 Package extension

In progress

5.10.1.4 Page skins

There is also a notion of skin to the page to add nice backgrounds to your page. All the skins are accessible from the `page.skins` property

Currently few skins are available:

```
def rains(self, width=(100, '%'), height=(100, '%'), options=None, profile=None)

def winter(self, width=(100, '%'), height=(100, '%'), options=None, profile=None)

def matrix(self, width=(100, '%'), height=(100, '%'), options=None, profile=None)

def fireworks(self, width=(100, '%'), height=(100, '%'), options=None, profile=None)

def lights(self, width=(100, '%'), height=(100, '%'), options=None, profile=None
```

For example the below lines will add a Matrix style to your page:

```
page = pk.Page()

page.skins.matrix()
page.ui.div("This is a text")
```

By transpiling the file with the below command you get a nice HTML page with the code inside:

```
epyk.exe transpile -s=N
```

This could be a easy and nice way to adapt and change your web site based on the season :).

5.11 Bugs & ToDo

For the ones interested in participating there is a list of improvements to be done to the framework. Those bugs are all defined in the code and they are either known bugs or extensions which need to be added.

5.11.1 Style

5.11.1.1 Global CSS

- Extend the `.globals` in **GrpCls.py** property to update more than the font and few properties.
- Improve `custom_class` in **GrpCls.py** to propagate the important attribute
- Improve way colors are defined for Charts in **Theme.py**.

5.11.2 Data

- Create a dedicated data core package with the input data definition for the components.
- Full revamping of the module PyMarkdown.py.

5.11.3 JavaScript

Obviously some work is still needed to fully wrap all the external packages. There are some but do not hesitate to add more issues there: https://github.com/epykure/epyk-ui/issues, we will try to tackle them)

5.11.4 Packages

5.11.4.1 PivotTable

- Fix the column initial selections for custom aggregators.

5.11.4.2 Sparklines

- Fix display tooltips in Jupyter
- Add event and tooltip style

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