

# msaJustPyUI Module

## .justpy.chartcomponents

### Attributes

S `module-attribute`

```
s = '\n<div style="width:100%;"><div style="position:relative;width:100%;height:0;padding-bottom:60%;"><iframe src="about:blank" style="position:absolute;width:100%;height:100%;left:0;top:0;border:none !important;" data-html={} onload="this.contentDocument.open();this.contentDocument.write(decodeURIComponent(this.getAttribute(\'data-html\')));this.contentDocument.close();" allowfullscreen webkitallowfullscreen mozallowfullscreen></iframe></div></div>\n'
```

### Classes

#### AltairChart

Bases: `Div`

##### Attributes

chart `instance-attribute`

```
chart = None
```

options `instance-attribute`

```
options = {}
```

use\_cache `instance-attribute`

```
use_cache = False
```

vega\_source instance-attribute

```
vega_source = None
```

vue\_type class-attribute

```
vue_type = 'altairjp'
```

## Functions

**`__init__`**

```
__init__(**kwargs)
```

**`convert_object_to_dict`**

```
convert_object_to_dict()
```

## BokehChart

Bases: Div

### Attributes

chart instance-attribute

```
chart = None
```

chart\_dict instance-attribute

```
chart_dict = {}
```

config instance-attribute

```
config = {}
```

use\_cache instance-attribute

```
use_cache = False
```

vue\_type class-attribute

```
vue_type = 'bokehjp'
```

### Functions

**`__init__`**

```
__init__(**kwargs)
```

**`convert_object_to_dict`**

```
convert_object_to_dict()
```

## FoliumChart

Bases: Div

### Attributes

chart instance-attribute

```
chart = None
```

inner\_div instance-attribute

```
inner_div = Div(a=self)
```

use\_cache instance-attribute

```
use_cache = False
```

### Functions

**`__init__`**

```
__init__(**kwargs)
```

**`convert_object_to_dict`**

```
convert_object_to_dict()
```

# HighCharts

Bases: `JustpyBaseComponent`

## Attributes

`allowed_events` `instance-attribute`

```
allowed_events = [  
    "tooltip",  
    "point_click",  
    "point_select",  
    "point_unselect",  
    "series_hide",  
    "series_show",  
    "series_click",  
    "zoom_x",  
    "zoom_y",  
]
```

`chart_types` `class-attribute`

```
chart_types = [  
    "columnrange",  
    "cylinder",  
    "dependencywheel",  
    "errorbar",  
    "funnel",  
    "funnel3d",  
    "gauge",  
    "heatmap",  
    "histogram",  
    "item",  
    "line",  
    "networkgraph",  
    "organization",  
    "packedbubble",  
    "pareto",  
    "pie",  
    "polygon",  
    "pyramid",  
    "pyramid3d",  
    "sankey",  
    "scatter",  
    "scatter3d",  
    "solidgauge",  
    "spline",  
    "streamgraph",  
    "sunburst",  
    "tilemap",  
    "timeline",  
    "treemap",  
    "variablepie",  
    "variwide",  
]
```

```

    "vector",
    "venn",
    "waterfall",
    "windbarb",
    "wordcloud",
    "xrange",
]

```

classes instance-attribute

```
classes = ''
```

event\_propagation instance-attribute

```
event_propagation = True
```

highcharts\_colors class-attribute

```

highcharts_colors = [
    "#7cb5ec",
    "#434348",
    "#90ed7d",
    "#f7a35c",
    "#8085e9",
    "#f15c80",
    "#e4d354",
    "#2b908f",
    "#f45b5b",
    "#91e8e1",
]

```

options instance-attribute

```
options = Dict()
```

pages instance-attribute

```
pages = {}
```

show instance-attribute

```
show = True
```

stock instance-attribute

```
stock = False
```

style instance-attribute

```
style = ''
```

tooltip\_debounce instance-attribute

```
tooltip_debounce = 100
```

tooltip\_fixed instance-attribute

```
tooltip_fixed = False
```

tooltip\_x instance-attribute

```
tooltip_x = -40
```

tooltip\_y instance-attribute

```
tooltip_y = 40
```

update\_animation instance-attribute

```
update_animation = True
```

update\_create instance-attribute

```
update_create = False
```

use\_cache instance-attribute

```
use_cache = True
```

vue\_type class-attribute

```
vue_type = 'chart'
```

## Functions

## `__init__`

```
__init__(**kwargs)
```

## `__repr__`

```
__repr__()
```

## `__setattr__`

```
__setattr__(key, value)
```

## `add_to`

```
add_to(*args)
```

## `add_to_page`

```
add_to_page(wp: WebPage)
```

## `chart_update` async

```
chart_update(update_dict, websocket)
```

## `convert_object_to_dict`

```
convert_object_to_dict()
```

## `draw_crosshair` async

```
draw_crosshair(point_list, websocket)
```

`point_list` is list of dictionaries whose keys are: 'id': the chart id 'series': the series index 'point': the point index Values are all integers

### Example

```
{'id': chart_id, 'series': msg.series_index, 'point': msg.point_index}
```

## `load_json`

```
load_json(options_string)
```

### load\_json\_from\_file

```
load_json_from_file(file_name)
```

### react

```
react(data)
```

### select\_point async

```
select_point(point_list, websocket)
```

point\_list is list of dictionaries whose keys are: 'id': the chart id 'series': the series index 'point': the point index Values are all integers

#### Example

```
{'id': chart_id, 'series': msg.series_index, 'point': msg.point_index}
```

### tooltip\_update async

```
tooltip_update(tooltip, websocket)
```

## HighStock

Bases: `HighCharts`

### Attributes

stock instance-attribute

```
stock = True
```

### Functions

`__init__`

```
__init__(**kwargs)
```



## Histogram

Bases: `HighCharts`

### Functions

`__init__`

```
__init__(data, **kwargs)
```

## Matplotlib

Bases: `Div`

### Attributes

`figure` `instance-attribute`

```
figure = plt.gcf()
```

### Functions

`__init__`

```
__init__(**kwargs)
```

### `set_figure`

```
set_figure(fig = None)
```

## Pie

Bases: `HighCharts`

### Attributes

`labels` `instance-attribute`

```
labels = []
```

### Functions

`__init__`

```
__init__(data, **kwargs)
```

## PieSemiCircle

Bases: `HighCharts`

### Attributes

labels `instance-attribute`

```
labels = []
```

### Functions

`__init__`

```
__init__(data, **kwargs)
```

## PlotlyChart

Bases: `Div`

### Attributes

chart `instance-attribute`

```
chart = None
```

chart\_dict `instance-attribute`

```
chart_dict = {}
```

config `instance-attribute`

```
config = {}
```

use\_cache `instance-attribute`

```
use_cache = False
```

vue\_type `class-attribute`

```
vue_type = 'plotlyjp'
```

### Functions

#### `__init__`

```
__init__(**kwargs)
```

#### `convert_object_to_dict`

```
convert_object_to_dict()
```

## PyDeck

Bases: `Div`

### Attributes

`deck` instance-attribute

```
deck = None
```

`use_cache` instance-attribute

```
use_cache = False
```

`vue_type` class-attribute

```
vue_type = 'deckgl'
```

### Functions

#### `__init__`

```
__init__(**kwargs)
```

#### `convert_object_to_dict`

```
convert_object_to_dict()
```

## PyDeckFrame

Bases: `Iframe`

### Attributes

`deck` instance-attribute

```
deck = None
```

`srcdoc` instance-attribute

```
srcdoc = None
```

`transition_duration` instance-attribute

```
transition_duration = 0.1
```

`view_delay` instance-attribute

```
view_delay = 0
```

`vue_type` class-attribute

```
vue_type = 'iframejp'
```

### Functions

`__init__`

```
__init__(**kwargs)
```

`convert_object_to_dict`

```
convert_object_to_dict()
```

## Scatter

Bases: `HighCharts`

### Functions

## `__init__`

```
__init__(x, y, **kwargs)
```

## Functions

### make\_pairs\_list

```
make_pairs_list(x_data, y_data)
```

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Last update: September 28, 2022

Created: September 28, 2022