a. **blotly** | Graphing Libraries (https://plotly.com/)(/graphing-libraries/)

¿utm_campaign=studio_cloud_launch&utm_content=sidebar)



Python (/python) > Chart Events (/python/chart-events) > Plotly FigureWidget Overview

Suggest an edit to this (https://github.com/plotly/plotly.py/edit/docpage prod/doc/python/figurewidget.md)

Plotly FigureWidget Overview in Python

Introduction to the new Plotly FigureWidget

jure

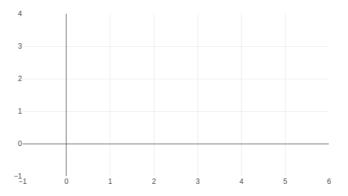
Plotly Studio: Transform any dataset into an interactive data application in minutes with Al. <u>Sign up for early access now. (https://plotly.com/studio/?utm_medium=graphing_libraries&utm_campaign=studio_early_access&utm_content=sidebar)</u>

Create a Simple FigureWidget

Create an empty FigureWidget and then view it.

```
import plotly.graph_objects as go

f = go.FigureWidget()
f
```



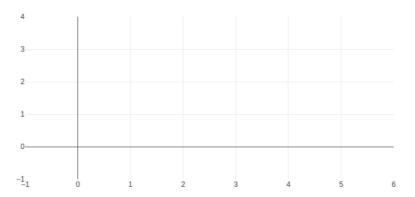
Add traces or update the layout and then watch the output above update in real time.

```
f.add_scatter(y=[2, 1, 4, 3]);
```

```
f.add_bar(y=[1, 4, 3, 2]);
```

```
f.layout.title = 'Hello FigureWidget'
```





Update the Data and the Layout

```
# update scatter data
scatter = f.data[0]
scatter.y = [3, 1, 4, 3]
```

```
# update bar data
bar = f.data[1]
bar.y = [5, 3, 2, 8]
```

```
f.layout.title.text = 'This is a new title'
```

Construct a FigureWidget from a Figure graph object

A standard Figure object can be passed to the FigureWidget constructor.

Reference



ooks (https://github.com/jonmmease/plotly_ipywidget_notebooks) for even more FigureWidget examples.

```
Help on class FigureWidget in module plotly.graph_objs._figurewidget:

class FigureWidget(plotly.basewidget.BaseFigureWidget)
| FigureWidget(data=None, layout=None, frames=None, skip_invalid=False, **kwargs)
|
| Method resolution order:
| FigureWidget
| plotly.basewidget.BaseFigureWidget
| plotly.basewidget.BaseFigureWidget
| plotly.basedatatypes.BaseFigure
| anywidget.widget.AnyWidget
| ipywidgets.widgets.widget.DOMWidget
| ipywidgets.widgets.widget.Widget
| ipywidgets.widgets.widget.Widget
```

What About Dash?

<u>Dash (https://dash.plot.ly/)</u> is an open-source framework for building analytical applications, with no Javascript required, and it is tightly integrated with the Plotly graphing library.

Learn about how to install Dash at https://dash.plot.ly/installation (https://dash.plot.ly/installation).

Everywhere in this page that you see fig.show(), you can display the same figure in a Dash application by passing it to the figure argument of the <u>Graph component</u> (https://dash.plot.ly/dash-core-components/graph) from the built-in dash_core_components package like this:

```
import plotly.graph_objects as go # or plotly.express as px
fig = go.Figure() # or any Plotly Express function e.g. px.bar(...)
# fig.add_trace( ... )
# fig.update_layout( ... )

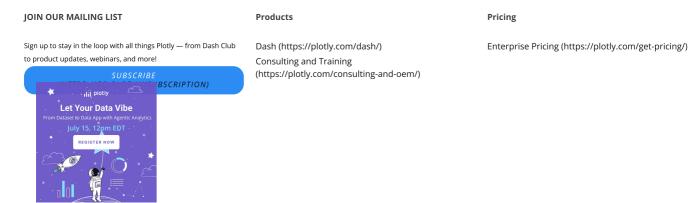
from dash import Dash, dcc, html

app = Dash()
app.layout = html.Div([
    dcc.Graph(figure=fig)
])

app.run(debug=True, use_reloader=False) # Turn off reloader if inside Jupyter
```



(https://dash.plotly.com/tutorial?utm_medium=graphing_libraries&utm_content=python_footer)



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