



Click Events in Python



Click Events With FigureWidget

Plotly Studio: Transform any dataset into an interactive data application in minutes with AI. [Sign up for early access now.](https://plotly.com/studio/?utm_medium=graphing-libraries&utm_campaign=studio_early_access&utm_content=sidebar) (https://plotly.com/studio/?utm_medium=graphing-libraries&utm_campaign=studio_early_access&utm_content=sidebar)

Update Points Using a Click Callback

```
import plotly.graph_objects as go

import numpy as np
np.random.seed(1)

x = np.random.rand(100)
y = np.random.rand(100)

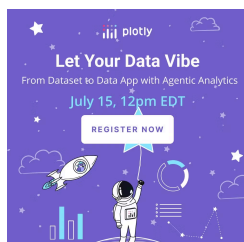
f = go.FigureWidget([go.Scatter(x=x, y=y, mode='markers')])

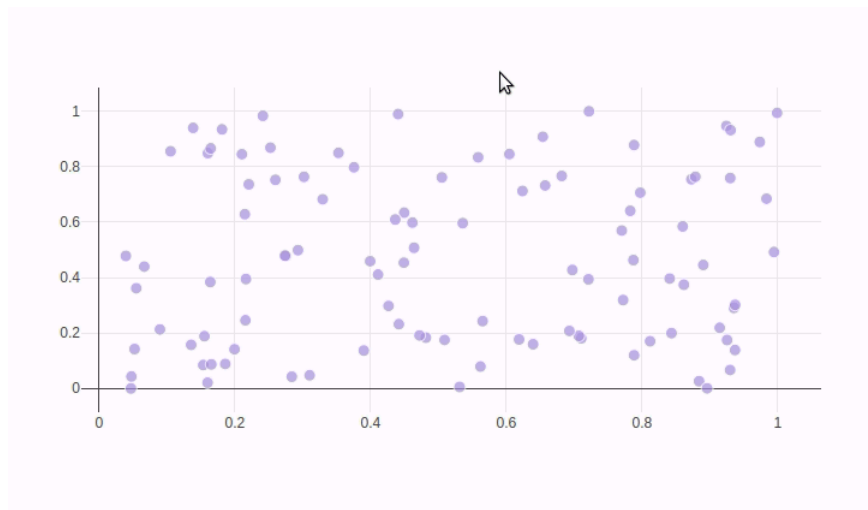
scatter = f.data[0]
colors = ['#a3a7e4'] * 100
scatter.marker.color = colors
scatter.marker.size = [10] * 100
f.layout.hovermode = 'closest'

# create our callback function
def update_point(trace, points, selector):
    c = list(scatter.marker.color)
    s = list(scatter.marker.size)
    for i in points.point_inds:
        c[i] = '#bae2be'
        s[i] = 20
    with f.batch_update():
        scatter.marker.color = c
        scatter.marker.size = s

scatter.on_click(update_point)

f
```





Reference

See [these Jupyter notebooks \(https://github.com/jonmmease/plotly_ipywidget_notebooks\)](https://github.com/jonmmease/plotly_ipywidget_notebooks) for even more FigureWidget examples.

```
import plotly.graph_objects as go
f = go.FigureWidget([go.Scatter()])
help(f.data[0].on_click)
```

Help on method on_click in module plotly.basedatatypes:

on_click(callback, append=False) method of plotly.graph_objs._scatter.Scatter instance
Register function to be called when the user clicks on one or more points in this trace.

Note: Callbacks will only be triggered when the trace belongs to a instance of plotly.graph_objs.FigureWidget and it is displayed in an ipywidget context. Callbacks will not be triggered on figures that are displayed using plot/iplot.

Parameters

What About Dash?

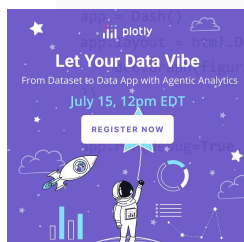
[Dash \(https://dash.plot.ly/\)](https://dash.plot.ly/) is an open-source framework for building analytical applications, with no Javascript required, and it is tightly integrated with the Plotly graphing library.


Learn about how to install Dash at [https://dash.plot.ly/installation \(https://dash.plot.ly/installation\)](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 [Graph component \(https://dash.plot.ly/dash-core-components/graph\)](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
```





Dash your way to interactive web apps.

No JavaScript required!

GET STARTED NOW


My First App with Data, Graph, and Controls

pop

lifeExp

gdpPerCap

country	pop	continent	lifeExp	gdpPerCap
Afghanistan	31889923	Asia	43.828	974.5883384
Albania	2600522	Europe	76.422	5937.029525999999
Algeria	33333216	Africa	72.361	6223.367465
Angola	12420676	Africa	42.731	4707.231267
Argentina	40301927	Americas	75.32	12779.37964
Australia	20434176	Oceania	81.235	34435.367439999995
Austria	8199783	Europe	79.829	36126.4927
Bahrain	708573	Asia	75.635	29796.04834
Bangladesh	150448339	Asia	64.062	1501.253792
Belgium	10392226	Europe	79.441	33692.04908
Benin	8078314	Africa	56.728	1441.284873
Bolivia	9119152	Americas	65.554	3822.137884



continent	avg lifeExp
Asia	~65
Europe	~75
Africa	~55
Americas	~70
Oceania	~78

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

JOIN OUR MAILING LIST

Sign up to stay in the loop with all things Plotly — from Dash Club to product updates, webinars, and more!

SUBSCRIBE
(<https://go.plot.ly/subscription>)

About Us

Careers (<https://plotly.com/careers>)
Resources (<https://plotly.com/resources/>)
Blog (<https://medium.com/@plotlygraphs>)

Products

Dash (<https://plotly.com/dash/>)
Consulting and Training
(<https://plotly.com/consulting-and-oem/>)

Pricing

Enterprise Pricing (<https://plotly.com/get-pricing/>)

Support

Community Support (<https://community.plot.ly/>)
Documentation (<https://plotly.com/graphing-libraries>)

Copyright © 2025 Plotly. All rights reserved.

Terms of Service (<https://community.plotly.com/tos>)

Privacy Policy (<https://plotly.com/privacy/>)

