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Python (/python) > Financial Charts (/python/financial-charts) > OHLC Suggest an edit to this page (https://github.com/plotly/plotly.py/edit/doc-prod/doc/python/ohlc-charts

OHLC Charts in Python

How to make interactive OHLC charts in Python with Plotly. Six examples of OHLC charts with Pandas, time series, and yahoo finance data.

ations

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

The OHLC (https://en.wikipedia.org/wiki/Open-high-low-close chart) chart (for open, high, low and close) is a style of financial chart describing open, high, low and close values for a given x coordinate (most likely time). The tip of the lines represent the low and high values and the horizontal segments represent the open and close values. Sample points where the close value is higher (lower) then the open value are called increasing (decreasing). By default, increasing items are drawn in green whereas decreasing are drawn in red.

See also Candlestick Charts (https://plotly.com/python/candlestick-charts/) and other financial charts (https://plotly.com/python/#financial-charts).

Simple OHLC Chart with Pandas





hout Rangeslider



Adding Customized Text and Annotations



```
import plotly.graph_objects as go
import pandas as pd
df = pd.read_csv('https://raw.githubusercontent.com/plotly/datasets/master/finance-charts-apple.csv')
fig = go.Figure(data=go.Ohlc(x=df['Date'],
                open=df['AAPL.Open'],
               high=df['AAPL.High'],
               low=df['AAPL.Low'],
               close=df['AAPL.Close']))
fig.update_layout(
   title=dict(text='The Great Recession'),
   yaxis=dict(title=dict(text='AAPL Stock')),
    shapes = [dict(
       x0='2016-12-09', x1='2016-12-09', y0=0, y1=1, xref='x', yref='paper',
       line_width=2)],
    annotations=[dict(
       x='2016-12-09', y=0.05, xref='x', yref='paper',
       showarrow=False, xanchor='left', text='Increase Period Begins')]
fig.show()
```

The Great Recession



Custom OHLC Colors



```
import plotly.graph_objects as go
import pandas as pd

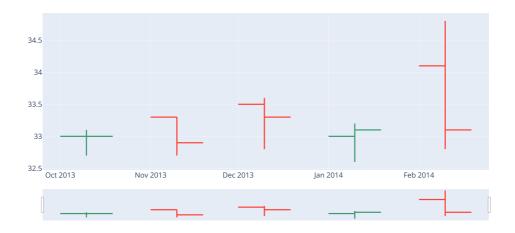
df = pd.read_csv('https://raw.githubusercontent.com/plotly/datasets/master/finance-charts-apple.csv')

fig = go.Figure(data=[go.Ohlc(
    x=df['Date'],
    open=df['AAPL.Open'], high=df['AAPL.High'],
    low=df['AAPL.Low'], close=df['AAPL.Close'],
    increasing_line_color= 'cyan', decreasing_line_color= 'gray'
)])
fig.show()
```



Simple OHLC with datetime Objects







Custom Hovertext



Reference

 $For more information on candlestick attributes, see: \underline{https://plotly.com/python/reference/ohlc/(\underline{https://plotly.com/python/reference/ohlc/)} \\$



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:

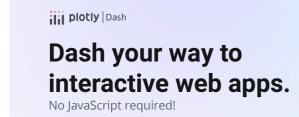
ations

```
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
```



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Australia 2084170 Occasida 81.315 3435.307410909995

Anstria 3109770 Grupe 78-829 3222.6427

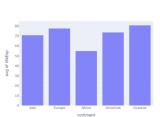
Bahria 700577 Ada 75-675 2076.0424

Bangladesh 158443539 Ada 64.80 1101.25792.64088

Bedin 8003134 Africa 65-578 3802.64088

Bedin 8003134 Africa 65-578 1441.24807

Bolicia 9013135 America 65-554 3022.17884



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

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