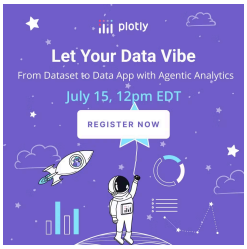
Table and Chart Subplots in Python

How to create a subplot with tables and charts in Python with Plotly.

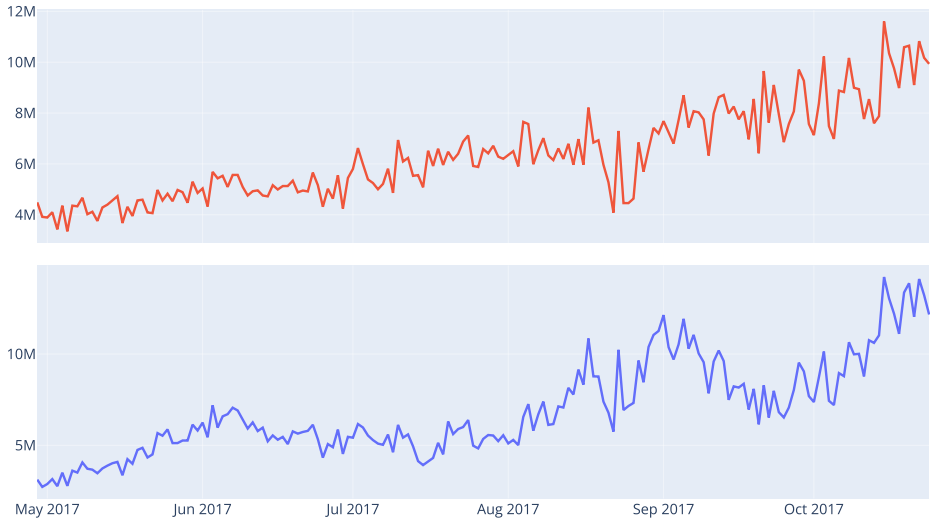
Import CSV Data



```
import plotly.graph_objects as go
from plotly.subplots import make_subplots

import pandas as pd
import re

df = pd.read_csv("https://raw.githubusercontent.com/plotly/datasets/master/Mining-BTC-180.csv")

for i, row in enumerate(df["Date"]):
    p = re.compile(" 00:00:00")
    datetime = p.split(df["Date"][i])[0]
    df.iloc[i, 1] = datetime

fig = make_subplots(
    rows=3, cols=1,
    shared_xaxes=True,
    vertical_spacing=0.03,
    specs=[[{"type": "table"}],
           [{"type": "scatter"}],
           [{"type": "scatter"}]]
)

fig.add_trace(
    go.Scatter(
        x=df["Date"],
        y=df["Mining-revenue-USD"],
        mode="lines",
        name="mining revenue"
    ),
    row=3, col=1
)

fig.add_trace(
    go.Scatter(
        x=df["Date"],
        y=df["Hash-rate"],
        mode="lines",
        name="hash-rate-TH/s"
    ),
    row=2, col=1
)

fig.add_trace(
    go.Table(
        header=dict(
            values=["Date", "Number<br>Transactions", "Output<br>Volume (BTC)",
                    "Market<br>Price", "Hash<br>Rate", "Cost per<br>trans-USD",
                    "Mining<br>Revenue-USD", "Trasaction<br>fees-BTC"],
            font=dict(size=10),
            align="left"
        ),
        cells=dict(
            values=[df[k].tolist() for k in df.columns[1:]],
            align = "left")
    ),
    row=1, col=1
)
fig.update_layout(
    height=800,
    showlegend=False,
    title_text="Bitcoin mining stats for 180 days",
)

fig.show()
```

Bitcoin mining stats for 180 days

2017-04-29	341319	4488916	3119179	4488916	9	3119179	256
2017-04-30	281489	3918072	2720216	3918072	10	2720216	199
2017-05-01	294786	3892124	2878278	3892124	10	2878278	228
2017-05-02	333161	4099704	3149553	4099704	10	3149553	273
2017-05-03	295149	3425069	2760373	3425069	10	2760373	247
2017-05-04	354737	4359179	3500746	4359179	10	3500746	307
2017-05-05	267193	3347227	2779170	3347227	11	2779170	261



Reference

See https://plotly.com/python/reference/table/ (https://plotly.com/python/reference/table/) for more information regarding chart attributes!
For examples of Plotly Tables, see: https://plotly.com/python/table/ (https://plotly.com/python/table/)

What About Dash?

Dash (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).

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) 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
```