

In [1]: `pip install yfinance`

```
Collecting yfinance
  Downloading yfinance-0.1.74-py2.py3-none-any.whl (27 kB)
Requirement already satisfied: requests>=2.26 in c:\programdata\anaconda3\lib\site-packages (from yfinance) (2.27.1)
Requirement already satisfied: numpy>=1.15 in c:\programdata\anaconda3\lib\site-packages (from yfinance) (1.21.5)
Requirement already satisfied: pandas>=0.24.0 in c:\programdata\anaconda3\lib\site-packages (from yfinance) (1.4.2)
Requirement already satisfied: lxml>=4.5.1 in c:\programdata\anaconda3\lib\site-packages (from yfinance) (4.8.0)
Collecting multitasking>=0.0.7
  Downloading multitasking-0.0.11-py3-none-any.whl (8.5 kB)
Requirement already satisfied: python-dateutil>=2.8.1 in c:\programdata\anaconda3\lib\site-packages (from pandas>=0.24.0->yfinance) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\programdata\anaconda3\lib\site-packages (from pandas>=0.24.0->yfinance) (2021.3)
Requirement already satisfied: six>=1.5 in c:\programdata\anaconda3\lib\site-packages (from python-dateutil>=2.8.1->pandas>=0.24.0->yfinance) (1.16.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests>=2.26->yfinance) (2021.10.8)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests>=2.26->yfinance) (3.3)
Requirement already satisfied: charset-normalizer~2.0.0 in c:\programdata\anaconda3\lib\site-packages (from requests>=2.26->yfinance) (2.0.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from requests>=2.26->yfinance) (1.26.9)
Installing collected packages: multitasking, yfinance
Successfully installed multitasking-0.0.11 yfinance-0.1.74
Note: you may need to restart the kernel to use updated packages.
```

In [2]: `import pandas as pd
import yfinance as yf
import datetime
from datetime import date, timedelta
import plotly.graph_objects as go
import plotly.express as px`

In [3]: `today = date.today()

d1 = today.strftime("%Y-%m-%d")
end_date = d1
d2 = date.today() - timedelta(days=365)
d2 = d2.strftime("%Y-%m-%d")
start_date = d2`

In [4]: `data = yf.download('GOOG',
 start=start_date,
 end=end_date,
 progress=False)

data["Date"] = data.index
data = data[["Date", "Open", "High", "Low",
 "Close", "Adj Close", "Volume"]]
data.reset_index(drop=True, inplace=True)
print(data.head())`

	Date	Open	High	Low	Close	Adj Close	\
0	2021-08-23	138.998505	142.177002	138.747955	141.099503	141.099503	
1	2021-08-24	141.543503	143.007507	141.353500	142.398499	142.398499	
2	2021-08-25	142.882996	143.313004	142.439499	142.949997	142.949997	
3	2021-08-26	142.618500	143.134796	142.091507	142.123001	142.123001	
4	2021-08-27	142.112503	145.011002	142.020004	144.550507	144.550507	

	Volume
0	21090000
1	15126000
2	12838000
3	14922000
4	24562000

In [5]: `data.tail()`

Out[5]:

	Date	Open	High	Low	Close	Adj Close	Volume
<b>248</b>	2022-08-17	120.930000	122.150002	120.199997	120.320000	120.320000	17589200
<b>249</b>	2022-08-18	120.230003	121.690002	119.550003	120.860001	120.860001	15652000
<b>250</b>	2022-08-19	119.870003	120.000000	117.669998	118.120003	118.120003	20171100
<b>251</b>	2022-08-22	116.099998	116.500000	114.669998	115.070000	115.070000	19316000
<b>252</b>	2022-08-23	114.320000	115.930000	114.300003	114.769997	114.769997	14372500

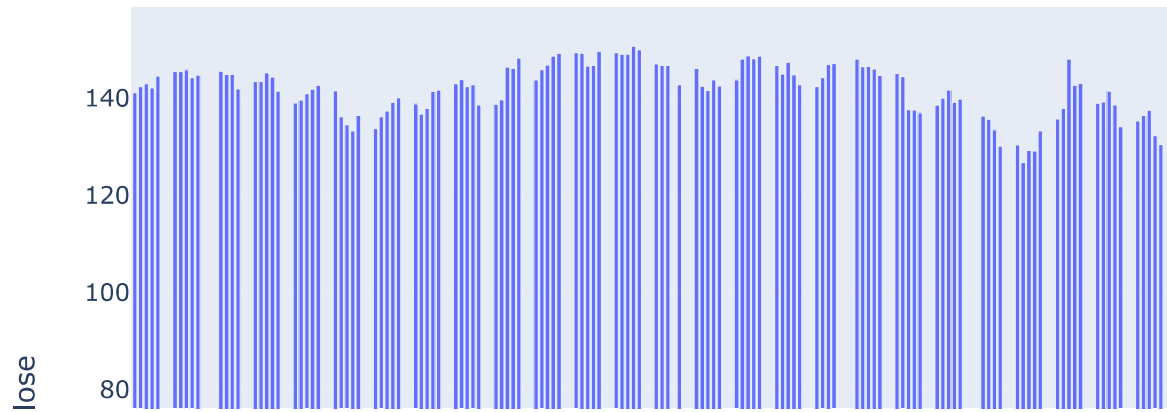
In [6]:

```
figure = go.Figure(data=[go.Candlestick(x=data["Date"],
                                         open=data["Open"], high=data["High"],
                                         low=data["Low"], close=data["Close"])]))
figure.update_layout(title = "Google Stock Price Analysis", xaxis_rangeslider_visible=
figure.show()
```

## Google Stock Price Analysis

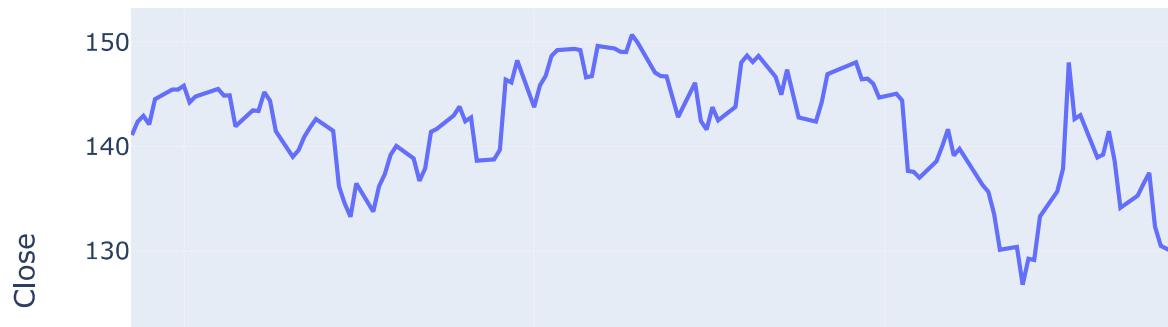


```
In [7]: figure = px.bar(data, x = "Date", y= "Close")  
figure.show()
```



```
In [8]: figure = px.line(data, x='Date', y='Close',  
                        title='Stock Market Analysis with Rangeslider')  
figure.update_xaxes(rangeslider_visible=True)  
figure.show()
```

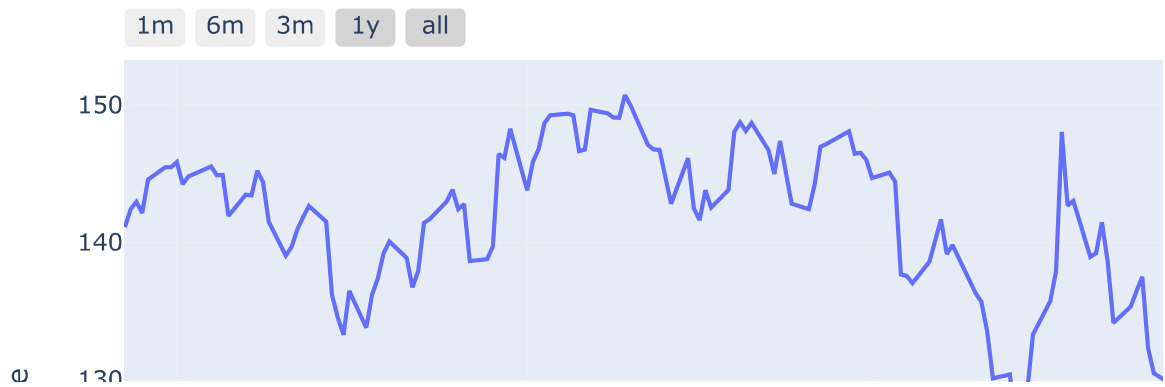
## Stock Market Analysis with Rangeslider



```
In [9]: figure = px.line(data, x='Date', y='Close',
                        title='Stock Market Analysis with Time Period Selectors')

figure.update_xaxes(
    rangeselector=dict(
        buttons=list([
            dict(count=1, label="1m", step="month", stepmode="backward"),
            dict(count=6, label="6m", step="month", stepmode="backward"),
            dict(count=3, label="3m", step="month", stepmode="backward"),
            dict(count=1, label="1y", step="year", stepmode="backward"),
            dict(step="all")
        ])
    )
)
figure.show()
```

## Stock Market Analysis with Time Period Selectors



```
In [11]: figure = px.scatter(data, x='Date', y='Close', range_x=['2021-08-23', '2022-08-23'],
                             title="Stock Market Analysis by Hiding Weekend Gaps")
figure.update_xaxes(
    rangebreaks=[
        dict(bounds=["sat", "sun"])
    ]
)
figure.show()
```



Stock Market Analysis by Hiding Weekend Gaps

