

```

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

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
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 2022-09-14  105.440002  106.099998  104.500000  105.870003  105.870003
1 2022-09-15  105.010002  106.209999  103.309998  103.900002  103.900002
2 2022-09-16  102.970001  104.029999  101.855003  103.629997  103.629997
3 2022-09-19  102.540001  104.019997  102.370003  103.849998  103.849998
4 2022-09-20  102.879997  103.169998  101.120003  101.830002  101.830002

  Volume
0  22115800
1  26494900
2  64540100
3  19738600
4  24001700

```

```

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=False)
figure.show()

```

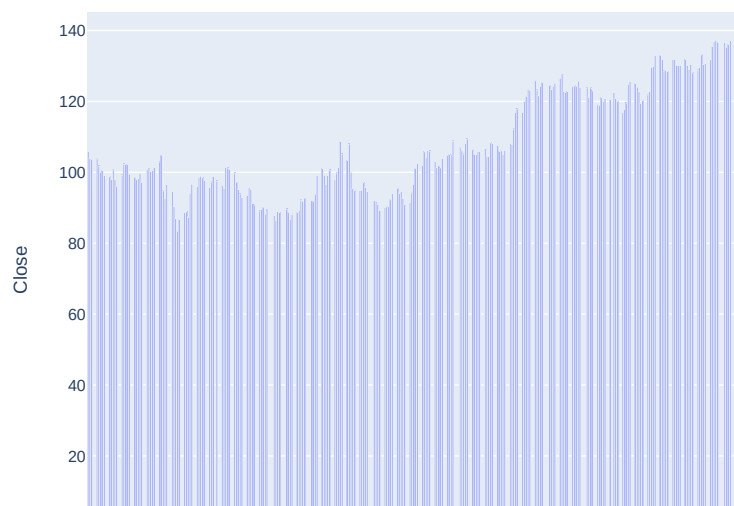
Google Stock Price Analysis



```

fig=px.bar(data,x="Date",y="Close")
fig.show()

```



```
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



```
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



```
figure = px.scatter(data, x= 'Date', y='Close', range_x=['2020-07-12', '2022-07-11'],
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

