In [1]:

```
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())
```

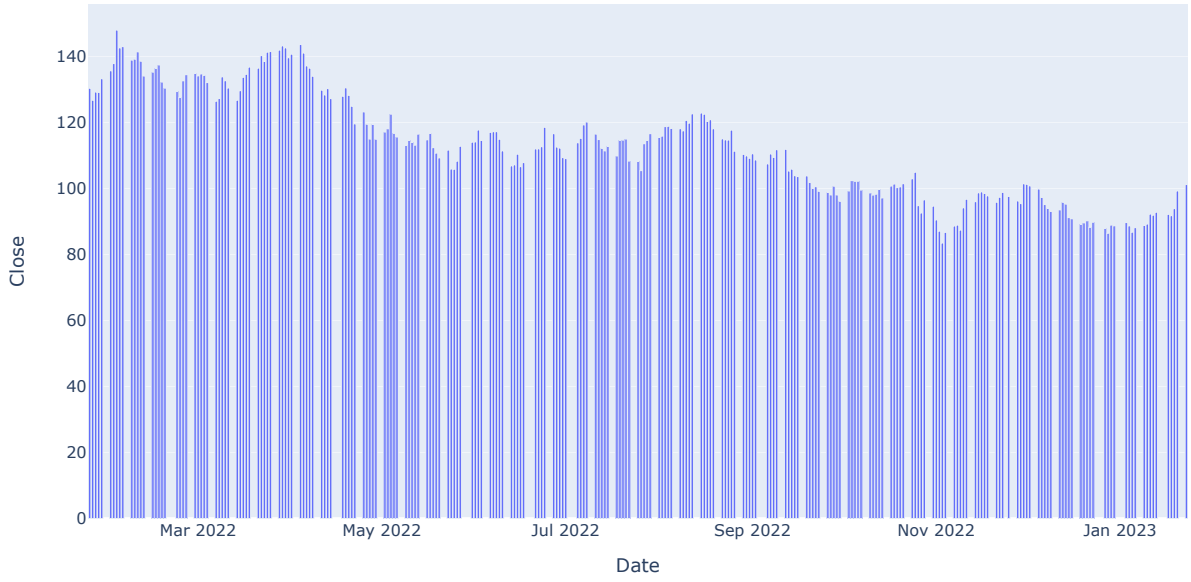
```
                       Date        Open        High         Low       Close  \
0 2022-01-24 00:00:00-05:00  126.027496  130.778503  124.641953  130.371994
1 2022-01-25 00:00:00-05:00  128.435501  129.338501  126.377998  126.735497
2 2022-01-26 00:00:00-05:00  130.592499  132.807495  127.153503  129.240005
3 2022-01-27 00:00:00-05:00  131.360992  132.609955  128.945007  129.121002
4 2022-01-28 00:00:00-05:00  130.000000  133.370499  128.694504  133.289505

    Adj Close    Volume
0  130.371994  55148000
1  126.735497  36008000
2  129.240005  39630000
3  129.121002  30248000
4  133.289505  30518000
```

In [2]:

```
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()
```

In [3]:

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

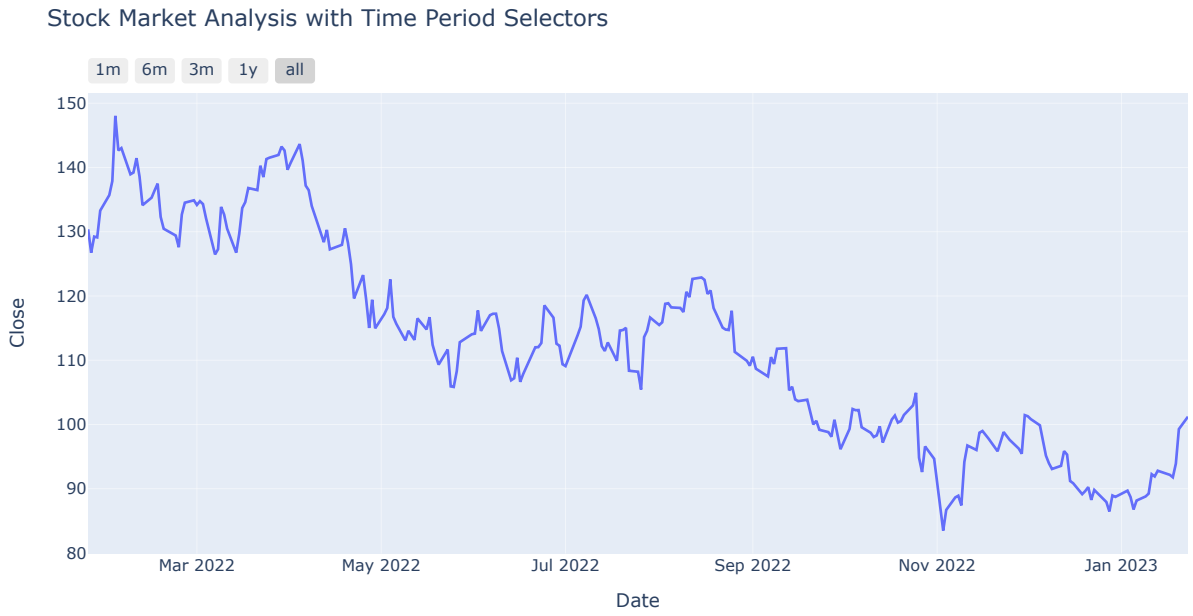


In [4]:

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

In [5]:

```
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()
```



In [6]:

```
figure = px.scatter(data, x='Date', y='Close', range_x=['2021-07-12', '2022-07-11'],
                    title="Stock Market Analysis by Hiding Weekend Gaps")
figure.update_xaxes(
    rangebreaks=[
        dict(bounds=["sat", "sun"])
    ]
)
figure.show()
```

In [ ]: