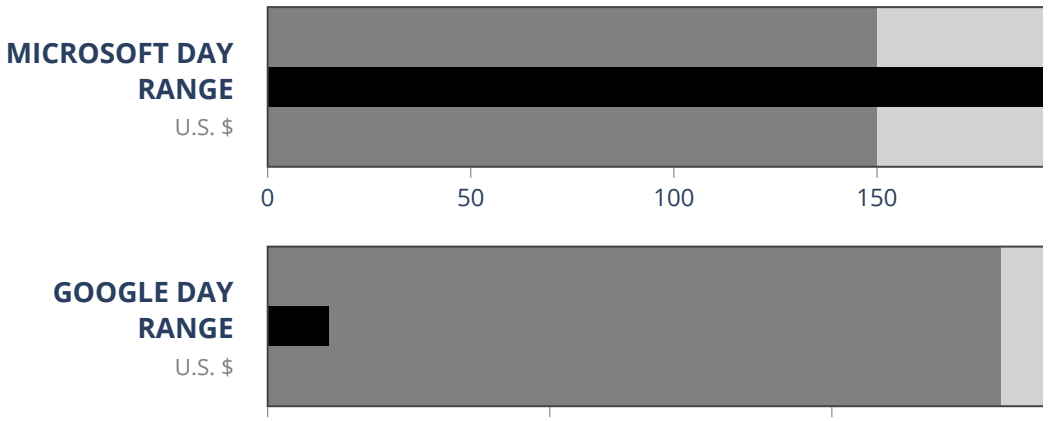
In [1]:
```
#Import library and packages:

import pandas as pd
import requests
import mplfinance as mf
import yfinance as yf
```

In [2]:
```
import pandas as pd
import datetime as dt
import pandas_datareader.data as web
import plotly.express as px
import plotly.graph_objects as go
```

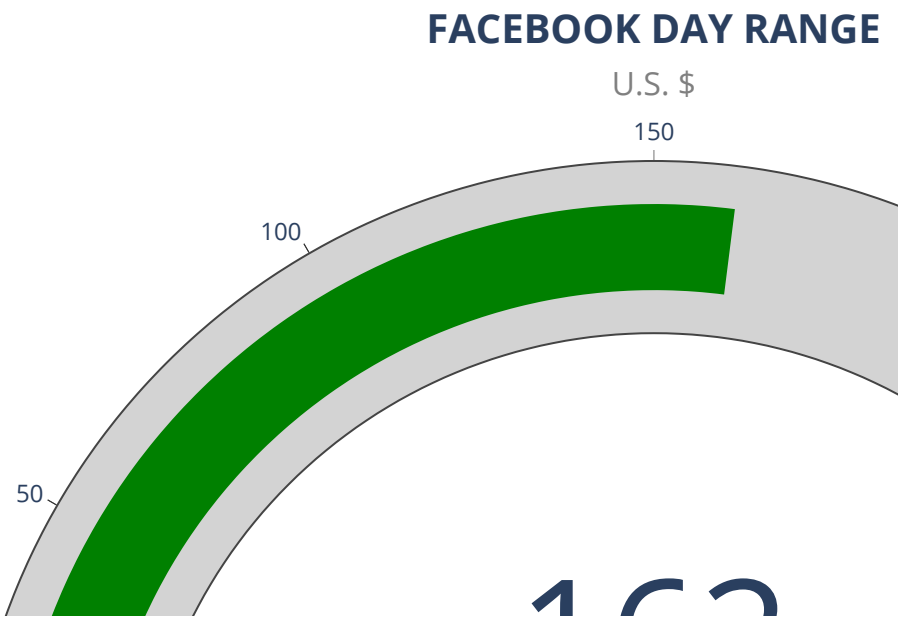
In [3]:
```
## import data
import datetime as dt
start = dt.datetime(2019,1,1)
end = dt.datetime.now()

stocks = web.DataReader(['FB','AMZN', 'AAPL', 'NFLX', 'GOOGL', 'MSFT'], 'yahoo',
stocks_close = pd.DataFrame(web.DataReader(['FB','AMZN', 'AAPL', 'NFLX', 'GOOGL',
```

In [4]:
```
# Customized Bullet chart

c_bullet = go.Figure()

c_bullet.add_trace(go.Indicator(
    mode = "number+gauge+delta",
    value = int(stocks_close['NFLX'].tail(1)),
    delta = {'reference': int(stocks_close['NFLX'].tail(2)[0])},
    domain = {'x': [0.25, 1],
              'y': [0.08, 0.25]},
    title = {'text':"<b>NETFLIX DAY<br>RANGE</b><br><span style='color: gray; for
             'font': {"size": 14}},
    gauge = {
        'shape': "bullet",
        'axis': {'range': [None, 550]},
        'threshold': {
            'line': {'color': "Red", 'width': 2},
            'thickness': 0.75,
            'value': 505},
        'steps': [
            {'range': [0, 350], 'color': "gray"},
            {'range': [350, 550], 'color': "lightgray"}],
        'bar': {'color': 'black'}}))

c_bullet.add_trace(go.Indicator(
    mode = "number+gauge+delta",
    value = int(stocks_close['GOOGL'].tail(1)),
    delta = {'reference': int(stocks_close['GOOGL'].tail(2)[0])},
    domain = {'x': [0.25, 1],
              'y': [0.4, 0.6]},
    title = {'text':"<b>GOOGLE DAY<br>RANGE</b><br><span style='color: gray; font
             'font': {"size": 14}},
    gauge = {
        'shape': "bullet",
        'axis': {'range': [None, 1800]},
        'threshold': {
            'line': {'color': "red", 'width': 2},
            'thickness': 0.75,
            'value': 1681},
        'steps': [
            {'range': [0, 1300], 'color': "gray"},
            {'range': [1300, 1800], 'color': "lightgray"}],
        'bar': {'color': 'black'}}))

c_bullet.add_trace(go.Indicator(
    mode = "number+gauge+delta",
    value = int(stocks_close['MSFT'].tail(1)),
    delta = {'reference': int(stocks_close['MSFT'].tail(2)[0])},
    domain = {'x': [0.25, 1],
              'y': [0.7, 0.9]},
    title = {'text':"<b>MICROSOFT DAY<br>RANGE</b><br><span style='color: gray; f
             'font': {"size": 14}},
    gauge = {
        'shape': "bullet",
        'axis': {'range': [None, 250]},
        'threshold': {
```

```
            'line': {'color': "red", 'width': 2},
            'thickness': 0.75,
            'value': 208},
        'steps': [
            {'range': [0, 150], 'color': "gray"},
            {'range': [150, 250], 'color': "lightgray"}],
        'bar': {'color': "black"}}))

c_bullet.update_layout(height = 400 , margin = {'t':0, 'b':0, 'l':0})
c_bullet.show()
```



In [5]:
```
# Gauge chart

gauge = go.Figure(go.Indicator(
    domain = {'x': [0, 1],
              'y': [0, 1]},
    value = int(stocks_close['FB'].tail(1)),
    mode = "gauge+number+delta",
    title = {'text':"<b>FACEBOOK DAY RANGE</b><br><span style='color: gray; font-
             'font': {"size": 20}},
    delta = {'reference': int(stocks_close['FB'].tail(2)[0])},
    gauge = {
             'axis': {'range': [None, 300]},
             'steps' : [
                 {'range': [0, 200], 'color': "lightgray"},
                 {'range': [200, 300], 'color': "gray"}],
             'threshold' : {'line': {'color': "red", 'width': 4},
                            'thickness': 0.75,
                            'value': 276}}))

gauge.show()
```



In [6]:
```
# Customized Candlestick

c_candlestick = go.Figure(data = [go.Candlestick(x = stocks.index,
                                                 open = stocks[('Open',    'AMZN')],
                                                 high = stocks[('High',    'AMZN')],
                                                 low = stocks[('Low',    'AMZN')],
                                                 close = stocks[('Close',    'AMZN'

c_candlestick.update_xaxes(
    title_text = 'Date',
    rangeslider_visible = True,
    rangeselector = dict(
        buttons = list([
            dict(count = 1, label = '1M', step = 'month', stepmode = 'backward'),
            dict(count = 6, label = '6M', step = 'month', stepmode = 'backward'),
            dict(count = 1, label = 'YTD', step = 'year', stepmode = 'todate'),
            dict(count = 1, label = '1Y', step = 'year', stepmode = 'backward'),
            dict(step = 'all')])))

c_candlestick.update_layout(
    title = {
        'text': 'AMAZON SHARE PRICE (2013-2020)',
        'y':0.9,
        'x':0.5,
        'xanchor': 'center',
        'yanchor': 'top'})

c_candlestick.update_yaxes(title_text = 'AMZN Close Price', tickprefix = '$')
c_candlestick.show()
```

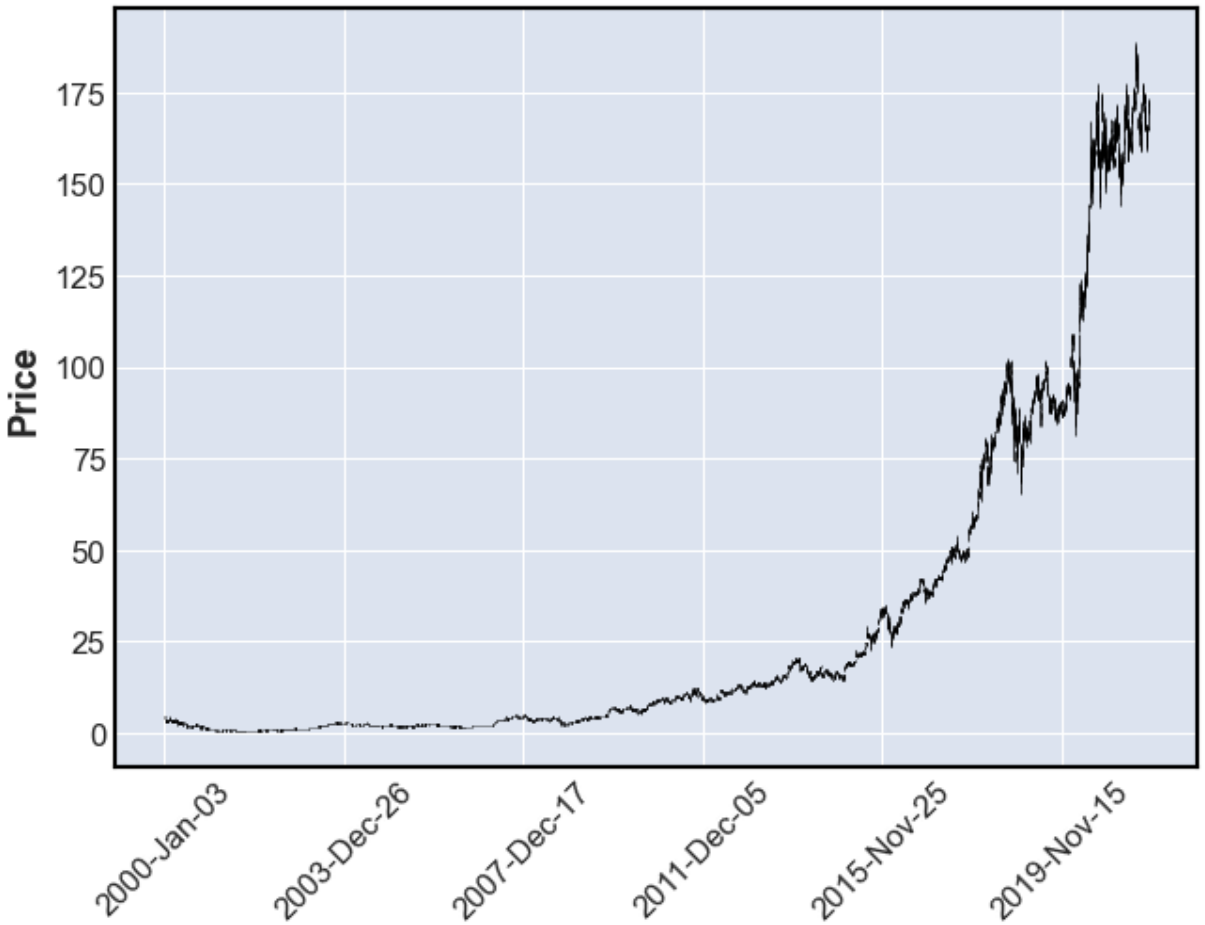
In [7]:
```
AMZN_df = yf.download('AMZN',
                      start= '2000-01-01',
                      end='2022-01-01',
                      progress=False)
AMZN_df.head()
```

Out[7]:

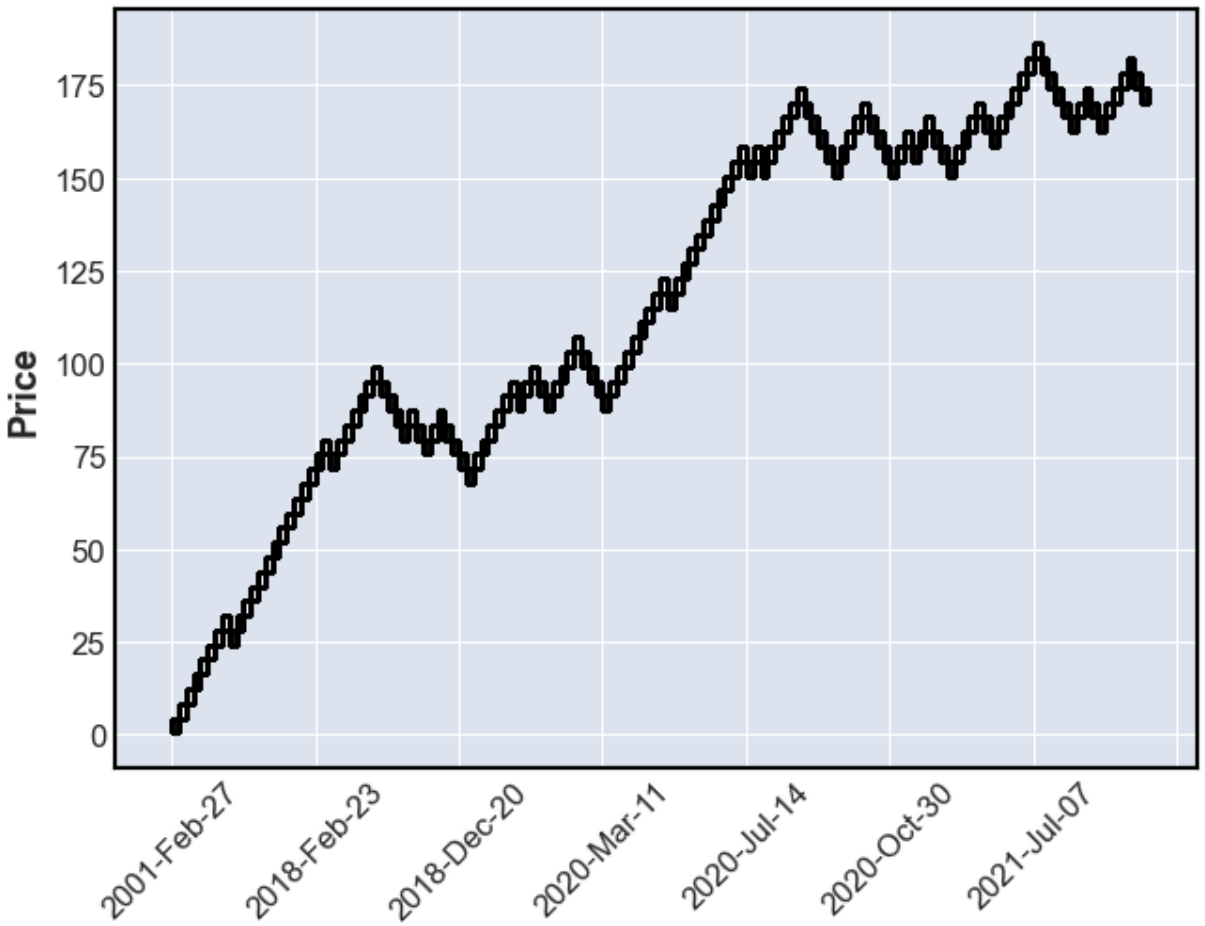
Date	Open	High	Low	Close	Adj Close	Volume
2000-01-03	4.075000	4.478125	3.952344	4.468750	4.468750	322352000
2000-01-04	4.268750	4.575000	4.087500	4.096875	4.096875	349748000
2000-01-05	3.525000	3.756250	3.400000	3.487500	3.487500	769148000
2000-01-06	3.565625	3.634375	3.200000	3.278125	3.278125	375040000
2000-01-07	3.350000	3.525000	3.309375	3.478125	3.478125	210108000

In [8]:
```
##OHLC chart

mf.plot(AMZN_df.iloc[:-50,:])
```

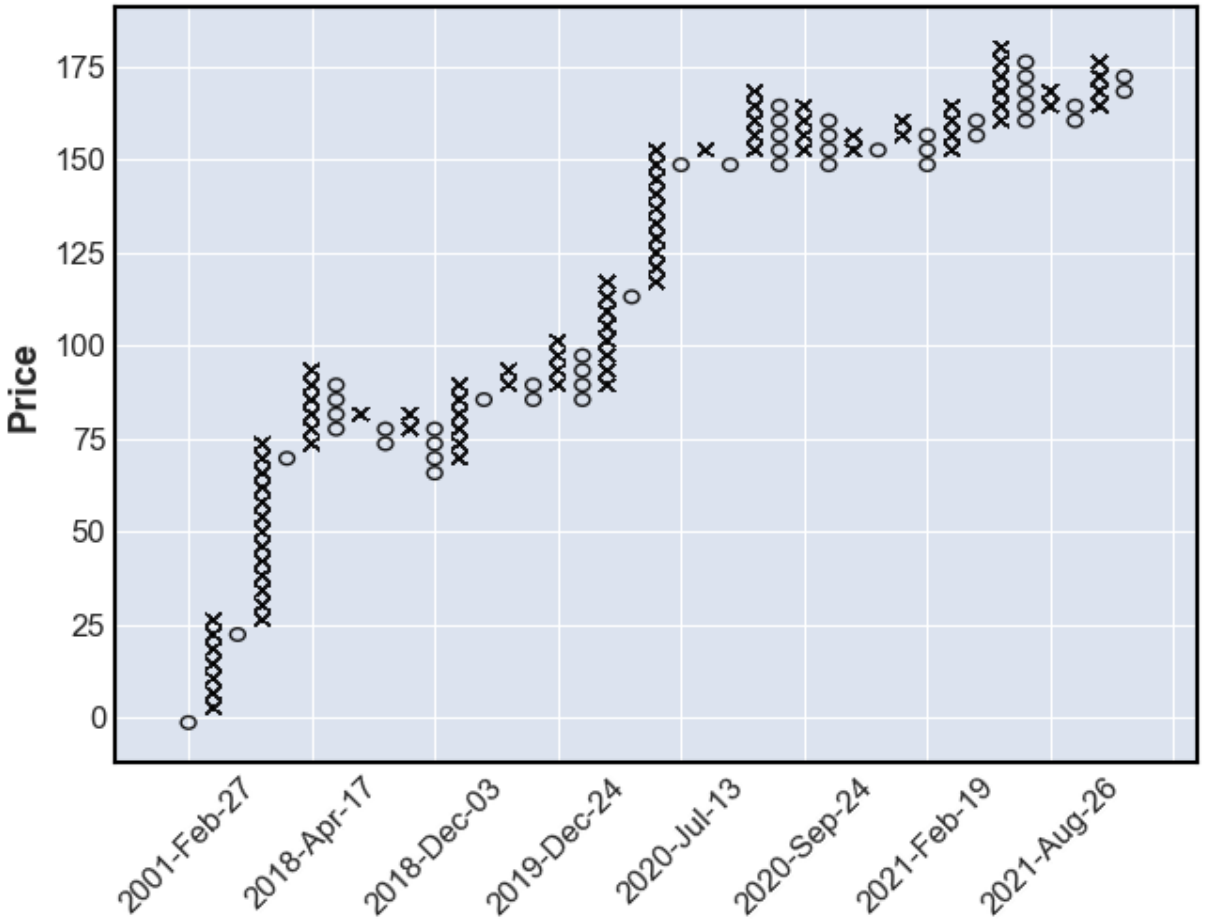
```
C:\Users\HP\anaconda3\lib\site-packages\mplfinance\_arg_validators.py:36: UserW
arning:


 ================================================================

   WARNING: YOU ARE PLOTTING SO MUCH DATA THAT IT MAY NOT BE
            POSSIBLE TO SEE DETAILS (Candles, Ohlc-Bars, Etc.)
   For more information see:
   - https://github.com/matplotlib/mplfinance/wiki/Plotting-Too-Much-Data (http
s://github.com/matplotlib/mplfinance/wiki/Plotting-Too-Much-Data)

   TO SILENCE THIS WARNING, set `type='line'` in `mpf.plot()`
   OR set kwarg `warn_too_much_data=N` where N is an integer
   LARGER than the number of data points you want to plot.

 ================================================================
```



In [9]:
```
mf.plot(AMZN_df, type = 'renko')
```



In [10]:
```
mf.plot(AMZN_df, type = 'pnf')
```



In [11]:
```
mf.plot(AMZN_df, mav = (10, 20), type = 'candle', volume = True)
```

```
C:\Users\HP\anaconda3\lib\site-packages\mplfinance\_arg_validators.py:36: UserW
arning:


 ================================================================

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   OR set kwarg `warn_too_much_data=N` where N is an integer
   LARGER than the number of data points you want to plot.

 ================================================================
```