

```
In [2]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

from datetime import datetime
```

```
In [3]: df = pd.read_csv("NFLX.csv")
```

```
In [4]: df
```

Out[4]:

|      | Date       | Open       | High       | Low        | Close      | Adj Close  | Volume   |
|------|------------|------------|------------|------------|------------|------------|----------|
| 0    | 2018-02-05 | 262.000000 | 267.899994 | 250.029999 | 254.259995 | 254.259995 | 11896100 |
| 1    | 2018-02-06 | 247.699997 | 266.700012 | 245.000000 | 265.720001 | 265.720001 | 12595800 |
| 2    | 2018-02-07 | 266.579987 | 272.450012 | 264.329987 | 264.559998 | 264.559998 | 8981500  |
| 3    | 2018-02-08 | 267.079987 | 267.619995 | 250.000000 | 250.100006 | 250.100006 | 9306700  |
| 4    | 2018-02-09 | 253.850006 | 255.800003 | 236.110001 | 249.470001 | 249.470001 | 16906900 |
| ...  | ...        | ...        | ...        | ...        | ...        | ...        | ...      |
| 1004 | 2022-01-31 | 401.970001 | 427.700012 | 398.200012 | 427.140015 | 427.140015 | 20047500 |
| 1005 | 2022-02-01 | 432.959991 | 458.480011 | 425.540009 | 457.130005 | 457.130005 | 22542300 |
| 1006 | 2022-02-02 | 448.250000 | 451.980011 | 426.480011 | 429.480011 | 429.480011 | 14346000 |
| 1007 | 2022-02-03 | 421.440002 | 429.260010 | 404.279999 | 405.600006 | 405.600006 | 9905200  |
| 1008 | 2022-02-04 | 407.309998 | 412.769989 | 396.640015 | 410.170013 | 410.170013 | 7782400  |

1009 rows × 7 columns

```
In [5]: df.head()
```

Out[5]:

|   | Date       | Open       | High       | Low        | Close      | Adj Close  | Volume   |
|---|------------|------------|------------|------------|------------|------------|----------|
| 0 | 2018-02-05 | 262.000000 | 267.899994 | 250.029999 | 254.259995 | 254.259995 | 11896100 |
| 1 | 2018-02-06 | 247.699997 | 266.700012 | 245.000000 | 265.720001 | 265.720001 | 12595800 |
| 2 | 2018-02-07 | 266.579987 | 272.450012 | 264.329987 | 264.559998 | 264.559998 | 8981500  |
| 3 | 2018-02-08 | 267.079987 | 267.619995 | 250.000000 | 250.100006 | 250.100006 | 9306700  |
| 4 | 2018-02-09 | 253.850006 | 255.800003 | 236.110001 | 249.470001 | 249.470001 | 16906900 |

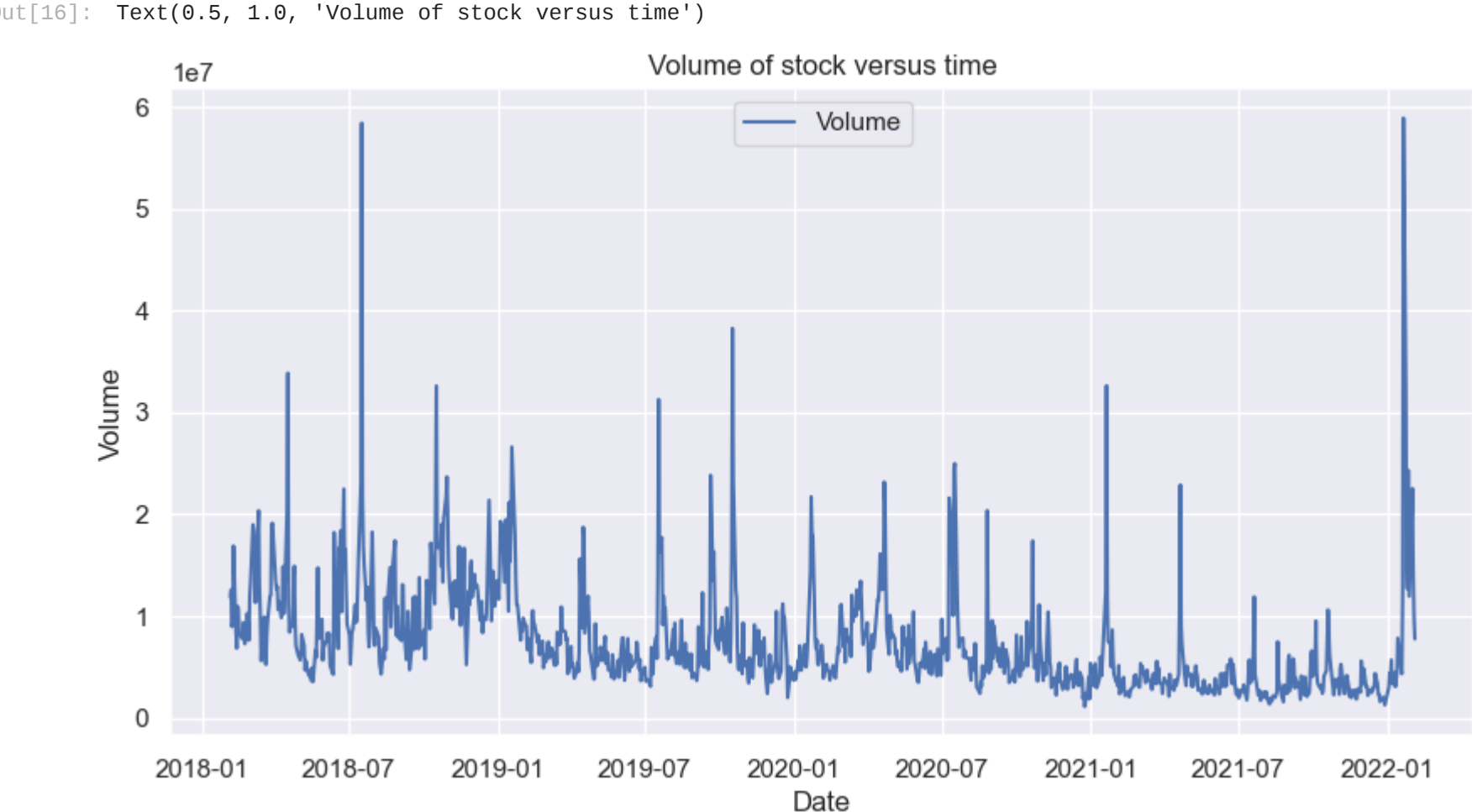
```
In [8]: sns.set(rc={'figure.figsize': (10,5)})
```

```
In [11]: df['Date'] = pd.to_datetime(df['Date'])
df = df.set_index('Date')
df.head()
```

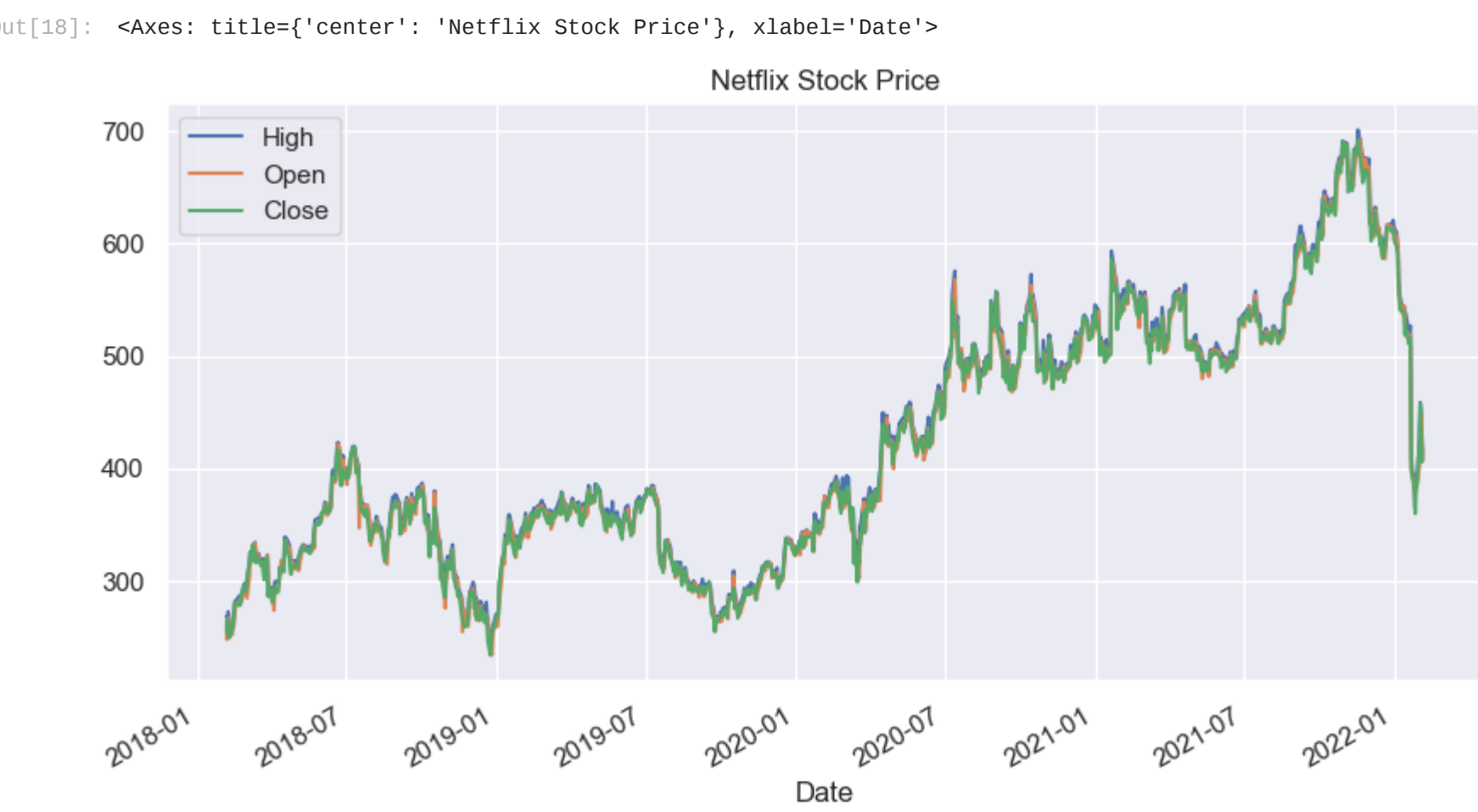
Out[11]:

|            | Open       | High       | Low        | Close      | Adj Close  | Volume   |
|------------|------------|------------|------------|------------|------------|----------|
| Date       |            |            |            |            |            |          |
| 2018-02-05 | 262.000000 | 267.899994 | 250.029999 | 254.259995 | 254.259995 | 11896100 |
| 2018-02-06 | 247.699997 | 266.700012 | 245.000000 | 265.720001 | 265.720001 | 12595800 |
| 2018-02-07 | 266.579987 | 272.450012 | 264.329987 | 264.559998 | 264.559998 | 8981500  |
| 2018-02-08 | 267.079987 | 267.619995 | 250.000000 | 250.100006 | 250.100006 | 9306700  |
| 2018-02-09 | 253.850006 | 255.800003 | 236.110001 | 249.470001 | 249.470001 | 16906900 |

```
In [16]: sns.lineplot(x=df.index, y=df['Volume'], label='Volume')
plt.title('Volume of stock versus time')
```



```
In [18]: df.plot(y=['High', 'Open', 'Close'], title = 'Netflix Stock Price')
```



```
In [22]: fig, (ax1, ax2, ax3) = plt.subplots(3, figsize=(16,11))
df.groupby(df.index.day).mean().plot(y='Volume', ax=ax1, xlabel='DAY')
df.groupby(df.index.month).mean().plot(y='Volume', ax=ax2, xlabel='Month')
df.groupby(df.index.year).mean().plot(y='Volume', ax=ax3, xlabel='Year')
```



## TOP 5 DATES WITH HIGHEST STOCK PRICE

```
In [23]: df = df.sort_values(by = 'High', ascending = False).head(5)
df['High']
```

Out[23]:

|            |            |
|------------|------------|
| Date       |            |
| 2021-11-17 | 700.989990 |
| 2021-11-19 | 694.159973 |
| 2021-11-18 | 691.739990 |
| 2021-10-29 | 690.969971 |
| 2021-11-01 | 689.969971 |

Name: High, dtype: float64

## TO 5 DATES WITH LOWEST STOCK PRICE

```
In [24]: df = df.sort_values(by = 'Low', ascending = True).head(5)
df['Low']
```

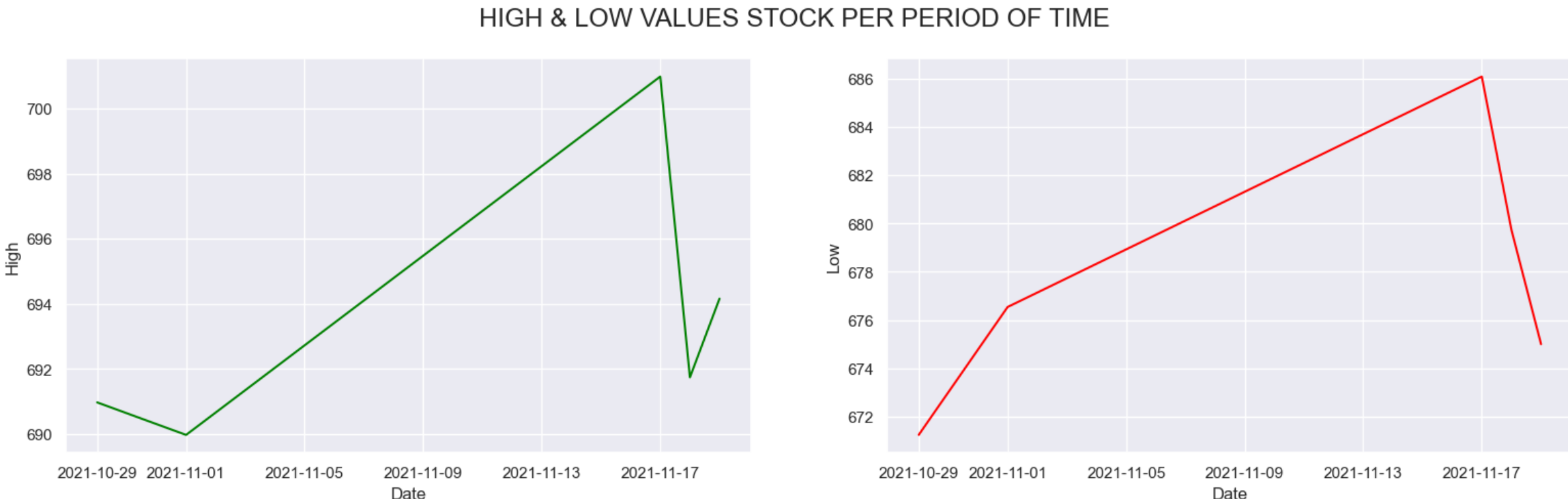
Out[24]:

|            |            |
|------------|------------|
| Date       |            |
| 2021-10-29 | 671.239990 |
| 2021-11-19 | 675.000000 |
| 2021-11-01 | 676.539978 |
| 2021-11-18 | 679.739990 |
| 2021-11-17 | 686.090027 |

Name: Low, dtype: float64

```
In [36]: fig, axes = plt.subplots(nrows=1, ncols=2, sharex=True, figsize = (19,5))
plt.suptitle("HIGH & LOW VALUES STOCK PER PERIOD OF TIME", fontsize=18)
sns.lineplot(ax = axes[0], y = df['High'], x=df.index, color='green')
sns.lineplot(ax = axes[1], y = df['Low'], x=df.index, color='red')
```

```
Out[36]: <Axes: xlabel='Date', ylabel='Low'>
```



```
In [ ]:
```