In [1]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

from datetime import datetime
```

In [2]:
```
data=pd.read_csv("Netflix.csv")
```

In [3]:
```
data.head()
```

Out[3]:

	Date	Open	High	Low	Close	Adj Close	Volume
0	2002-05-23	1.156429	1.242857	1.145714	1.196429	1.196429	104790000
1	2002-05-24	1.214286	1.225000	1.197143	1.210000	1.210000	11104800
2	2002-05-28	1.213571	1.232143	1.157143	1.157143	1.157143	6609400
3	2002-05-29	1.164286	1.164286	1.085714	1.103571	1.103571	6757800
4	2002-05-30	1.107857	1.107857	1.071429	1.071429	1.071429	10154200

In [4]:
```
sns.set(rc={'figure.figsize' :(10,5)})
```

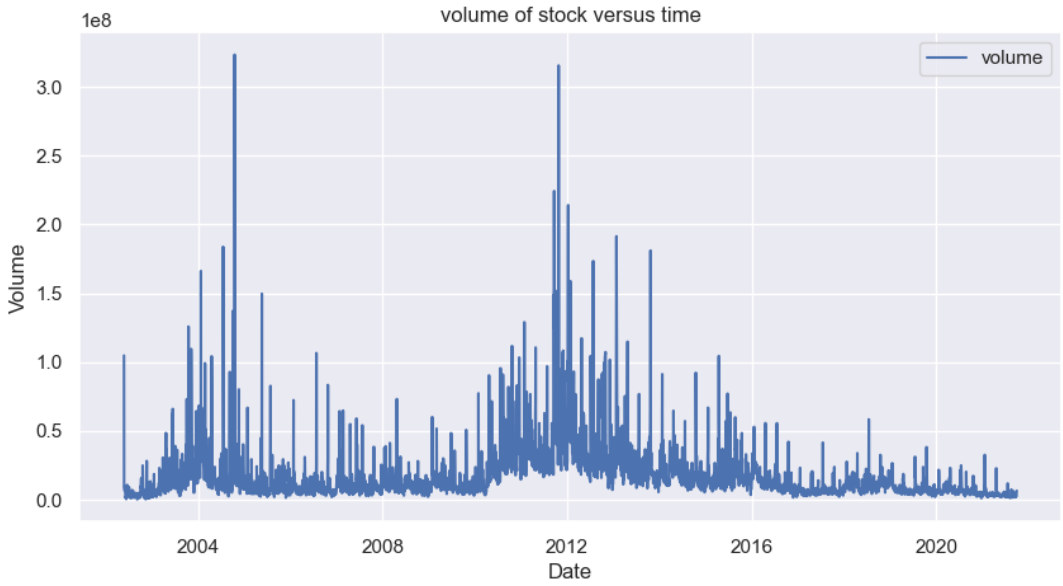
In [5]:
```
data['Date'] = pd.to_datetime(data['Date'])
data=data.set_index('Date')
data.head()
```

Out[5]:

Date	Open	High	Low	Close	Adj Close	Volume
2002-05-23	1.156429	1.242857	1.145714	1.196429	1.196429	104790000
2002-05-24	1.214286	1.225000	1.197143	1.210000	1.210000	11104800
2002-05-28	1.213571	1.232143	1.157143	1.157143	1.157143	6609400
2002-05-29	1.164286	1.164286	1.085714	1.103571	1.103571	6757800
2002-05-30	1.107857	1.107857	1.071429	1.071429	1.071429	10154200

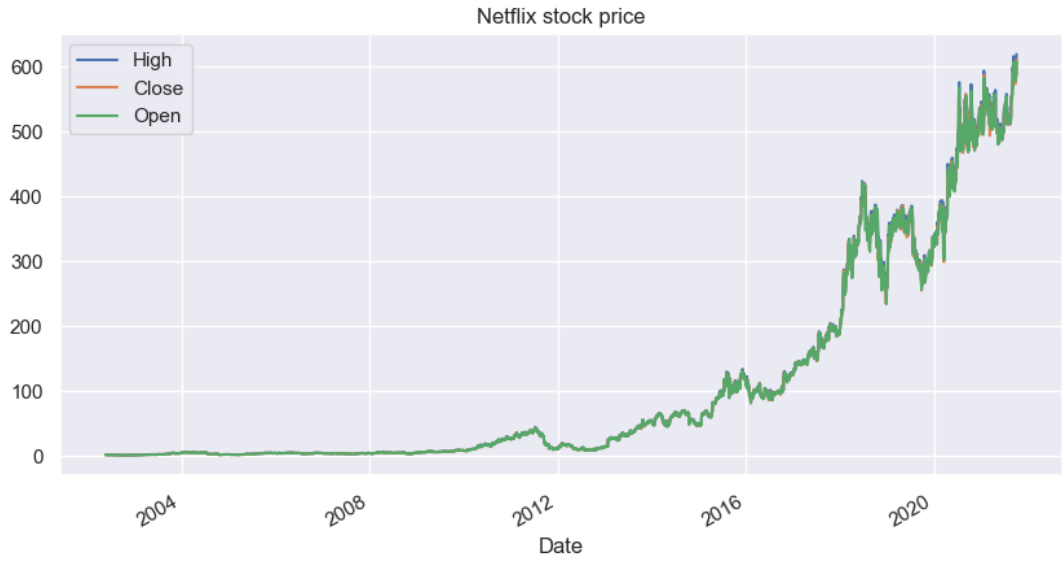
In [6]:
```
sns.lineplot(x=data.index, y=data['Volume'], label='volume')
plt.title('volume of stock versus time')
```

Out[6]:
```
Text(0.5, 1.0, 'volume of stock versus time')
```



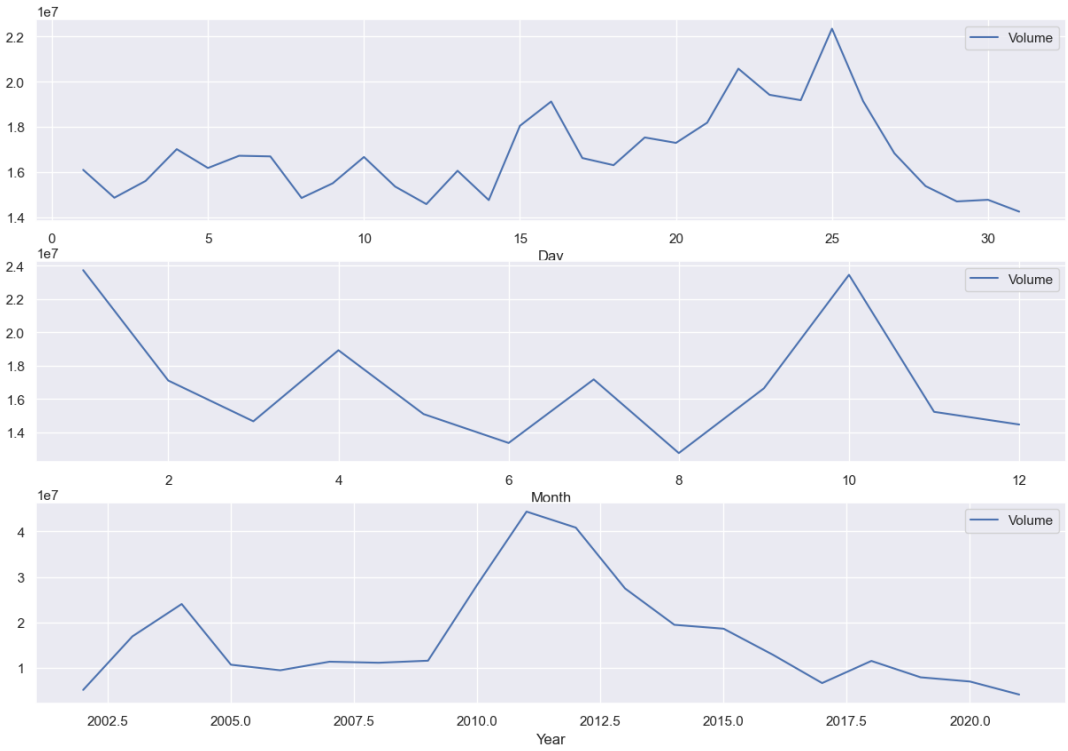
In [7]:
```
data.plot(y=['High', 'Close', 'Open'], title='Netflix stock price')
```

Out[7]:
```
<Axes: title={'center': 'Netflix stock price'}, xlabel='Date'>
```



In [8]:
```
fig,(ax1,ax2,ax3)=plt.subplots(3,figsize=(15,10))
data.groupby(data.index.day).mean().plot(y='Volume', ax=ax1,xlabel='Day
data.groupby(data.index.month).mean().plot(y='Volume', ax=ax2,xlabel='M
data.groupby(data.index.year).mean().plot(y='Volume',ax=ax3, xlabel='Ye
```

Out[8]: <Axes: xlabel='Year'>



Dates with Highest stock price

In [9]:
```
a=data.sort_values(by='High', ascending=False).head(5)
a['High']
```

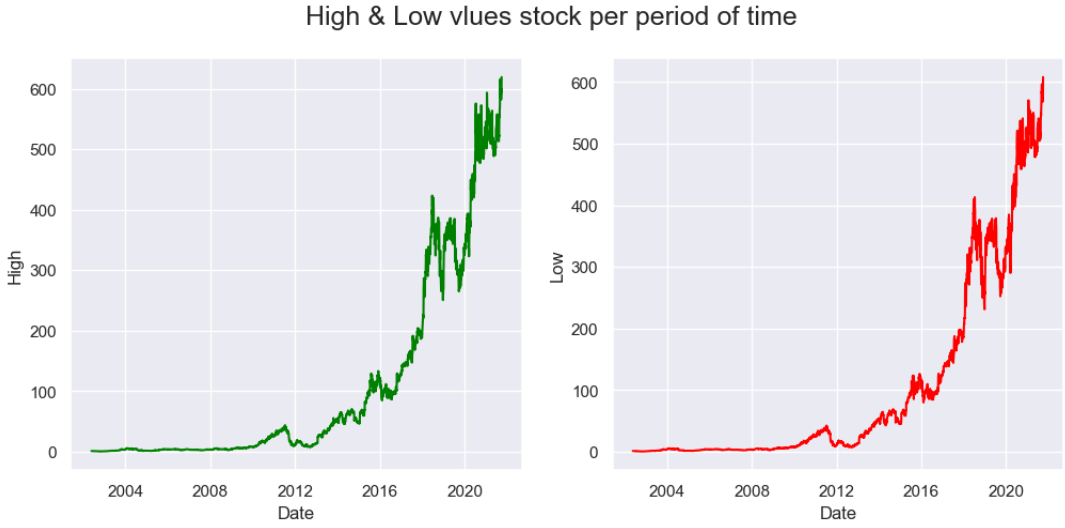
Out[9]:
```
Date
2021-09-30    619.000000
2021-09-08    615.599976
2021-09-07    613.849976
2021-09-29    609.880005
2021-09-10    609.450012
Name: High, dtype: float64
```

In [10]:
```
b=data.sort_values(by='Low', ascending=True).head(5)
b['Low']
```

Out[10]:
```
Date
2002-10-10    0.346429
2002-10-09    0.347143
2002-10-07    0.382143
2002-10-08    0.390714
2002-10-16    0.442857
Name: Low, dtype: float64
```

In [11]:
```
fig,axes=plt.subplots(nrows=1,ncols=2, sharex=True, figsize=(12,5))
fig.suptitle('High & Low vlues stock per period of time', fontsize=18)
sns.lineplot(ax=axes[0],y=data['High'],x=data.index, color="green")
sns.lineplot(ax=axes[1],y=data['Low'], x=data.index, color="red")
```

Out[11]: <Axes: xlabel='Date', ylabel='Low'>



In [ ]: