NETFLIX

STOCK PROFILE 2017

Doha Waael Azab

Codecademy capstone project

Visualizing Data with python skill path

Content

Knowing Our Datasets

1 *Netflix Stocks*

```
In [2]: netflix_stocks = pd.read_csv("NFLX.csv")
        print(netflix_stocks.head(5))
```

```
         Date        Open        High         Low       Close   Adj Close  \
0  2017-01-01  124.959999  143.460007  124.309998  140.710007  140.710007
1  2017-02-01  141.199997  145.949997  139.050003  142.130005  142.130005
2  2017-03-01  142.839996  148.289993  138.259995  147.809998  147.809998
3  2017-04-01  146.699997  153.520004  138.660004  152.199997  152.199997
4  2017-05-01  151.910004  164.750000  151.610001  163.070007  163.070007

      Volume
0  181772200
1   91432000
2  110692700
3  149769200
4  116795800
```

Knowing Our Datasets

2 *Dowjones Stocks*

```
In [3]: dowjones_stocks = pd.read_csv('DJI.csv')
        print(dowjones_stocks.head(5))
```

```
         Date          Open          High           Low         Close  \
0  2017-01-01  19872.859375  20125.580078  19677.939453  19864.089844
1  2017-02-01  19923.810547  20851.330078  19831.089844  20812.240234
2  2017-03-01  20957.289063  21169.109375  20412.800781  20663.220703
3  2017-04-01  20665.169922  21070.900391  20379.550781  20940.509766
4  2017-05-01  20962.730469  21112.320313  20553.449219  21008.650391

      Adj Close      Volume
0  19864.089844  6482450000
1  20812.240234  6185580000
2  20663.220703  6941970000
3  20940.509766  5392630000
4  21008.650391  6613570000
```

Knowing Our Datasets

3 *Netflix Stocks Quarterly*

```
In [4]: netflix_stocks_quarterly = pd.read_csv("NFLX_daily_by_quarter.csv")
        print(netflix_stocks_quarterly.head(5))
```

```
         Date        Open        High         Low       Close   Adj Close  \
0  2017-01-03  124.959999  128.190002  124.309998  127.489998  127.489998
1  2017-01-04  127.489998  130.169998  126.550003  129.410004  129.410004
2  2017-01-05  129.220001  132.750000  128.899994  131.809998  131.809998
3  2017-01-06  132.080002  133.880005  129.809998  131.070007  131.070007
4  2017-01-09  131.479996  131.990005  129.889999  130.949997  130.949997

     Volume Quarter
0   9437900      Q1
1   7843600      Q1
2  10185500      Q1
3  10657900      Q1
4   5766900      Q1
```

Difference between Netflix stocks and Netflix Stocks Quarterly

```
netflix_stocks = pd.read_csv("NFLX.csv")
print(netflix_stocks.head(5))
```

	Date	Open	High	Low	Close	Adj Close
0	2017-01-01	124.959999	143.460007	124.309998	140.710007	140.710007
1	2017-02-01	141.199997	145.949997	139.050003	142.130005	142.130005
2	2017-03-01	142.839996	148.289993	138.259995	147.809998	147.809998
3	2017-04-01	146.699997	153.520004	138.660004	152.199997	152.199997
4	2017-05-01	151.910004	164.750000	151.610001	163.070007	163.070007

	Volume
0	181772200
1	91432000
2	110692700
3	149769200
4	116795800

```
In [4]: netflix_stocks_quarterly = pd.read_csv("NFLX_daily_by_quarter.csv")
print(netflix_stocks_quarterly.head(5))
```

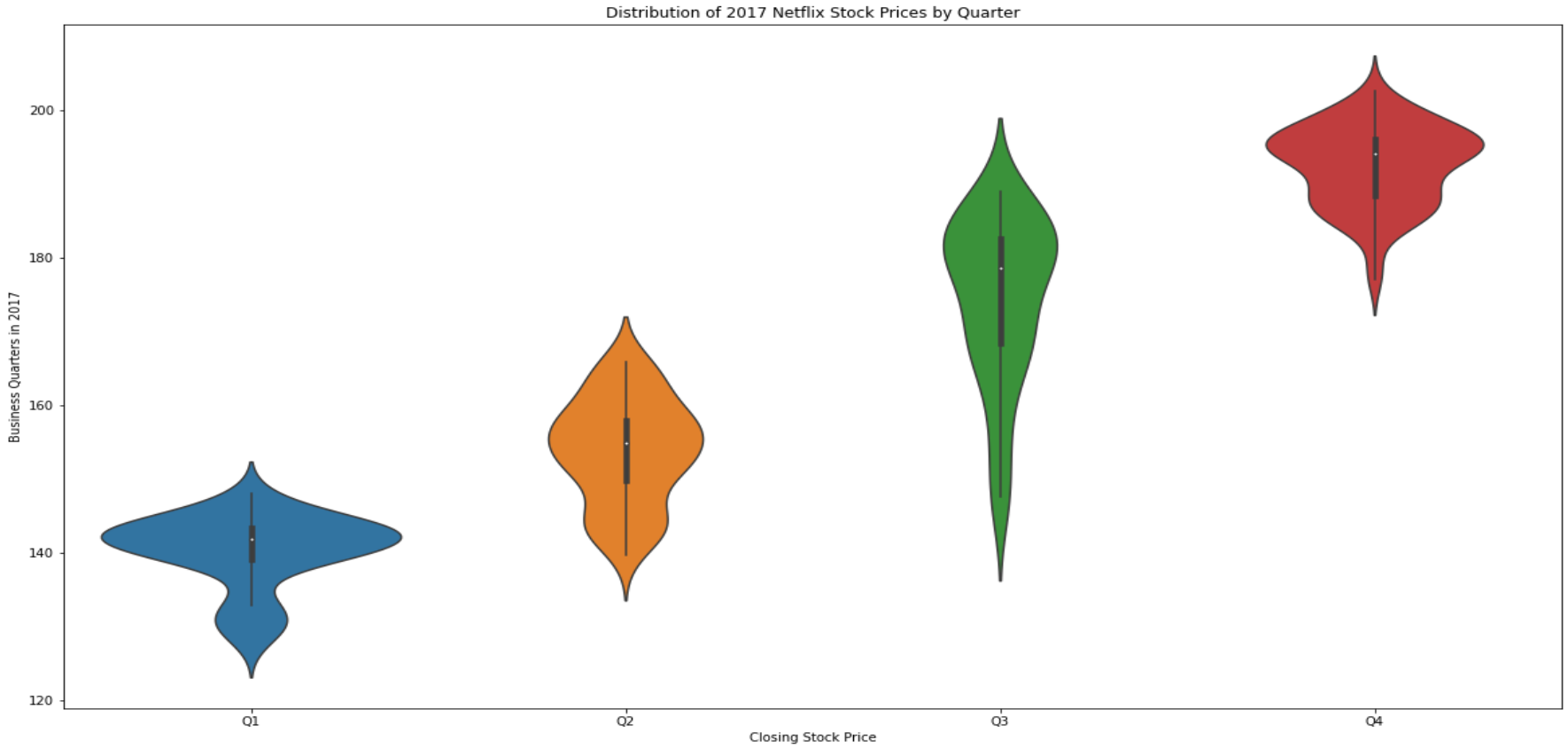
	Date	Open	High	Low	Close	Adj Close
0	2017-01-03	124.959999	128.190002	124.309998	127.489998	127.489998
1	2017-01-04	127.489998	130.169998	126.550003	129.410004	129.410004
2	2017-01-05	129.220001	132.750000	128.899994	131.809998	131.809998
3	2017-01-06	132.080002	133.880005	129.809998	131.070007	131.070007
4	2017-01-09	131.479996	131.990005	129.889999	130.949997	130.949997

	Volume	Quarter
0	9437900	Q1
1	7843600	Q1
2	10185500	Q1
3	10657900	Q1
4	5766900	Q1

Violin Plot of Netflix Stock Quarterly

- There are two **KDE plots** that are symmetrical along the center line.
- A **white dot** represents the median.
- The **thick black line** in the center of each violin represents the interquartile range.
- The **lines that extend from the center** are the confidence intervals - just as we saw on the bar plots, a violin plot also displays the 95% confidence interval.

Violin Plot of Netflix Stock Quarterly



Understood From Violin Plot

- **Which in the year where the highest quarters ?**

The expected highest prices are in quarter 4 of year 2017 as I understood from the violin plot .

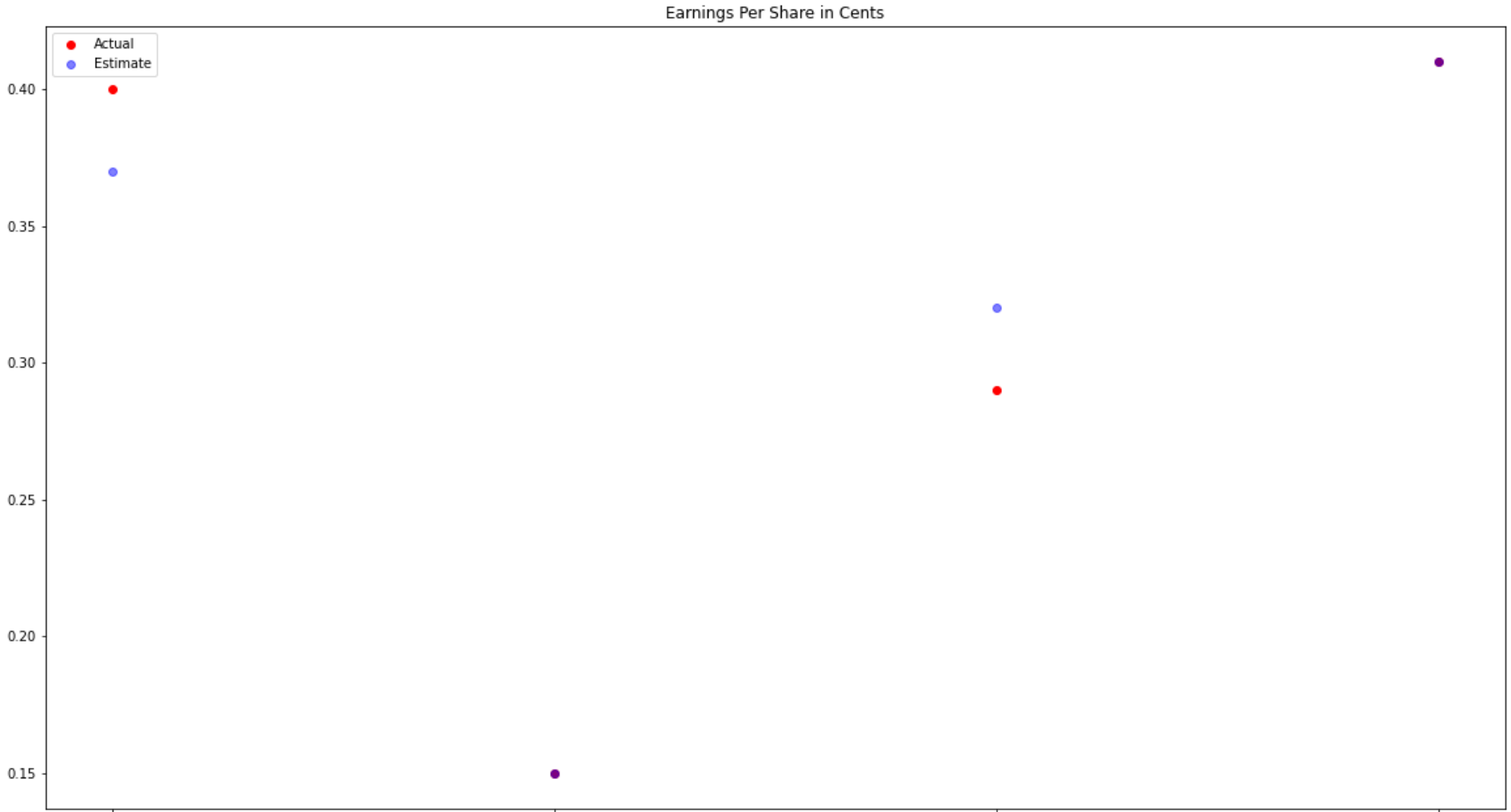
- **Which in the year where the lowest prices ?**

The expected lowest prices are in quarter 1 of year 2017 as I understood from the violin plot .

Scatter Plot of the Actual and the Expected Earnings

The following is estimate Yahoo projected for the Quarter compared to the actual earnings for that quarters. We will accomplish this using a scatter chart

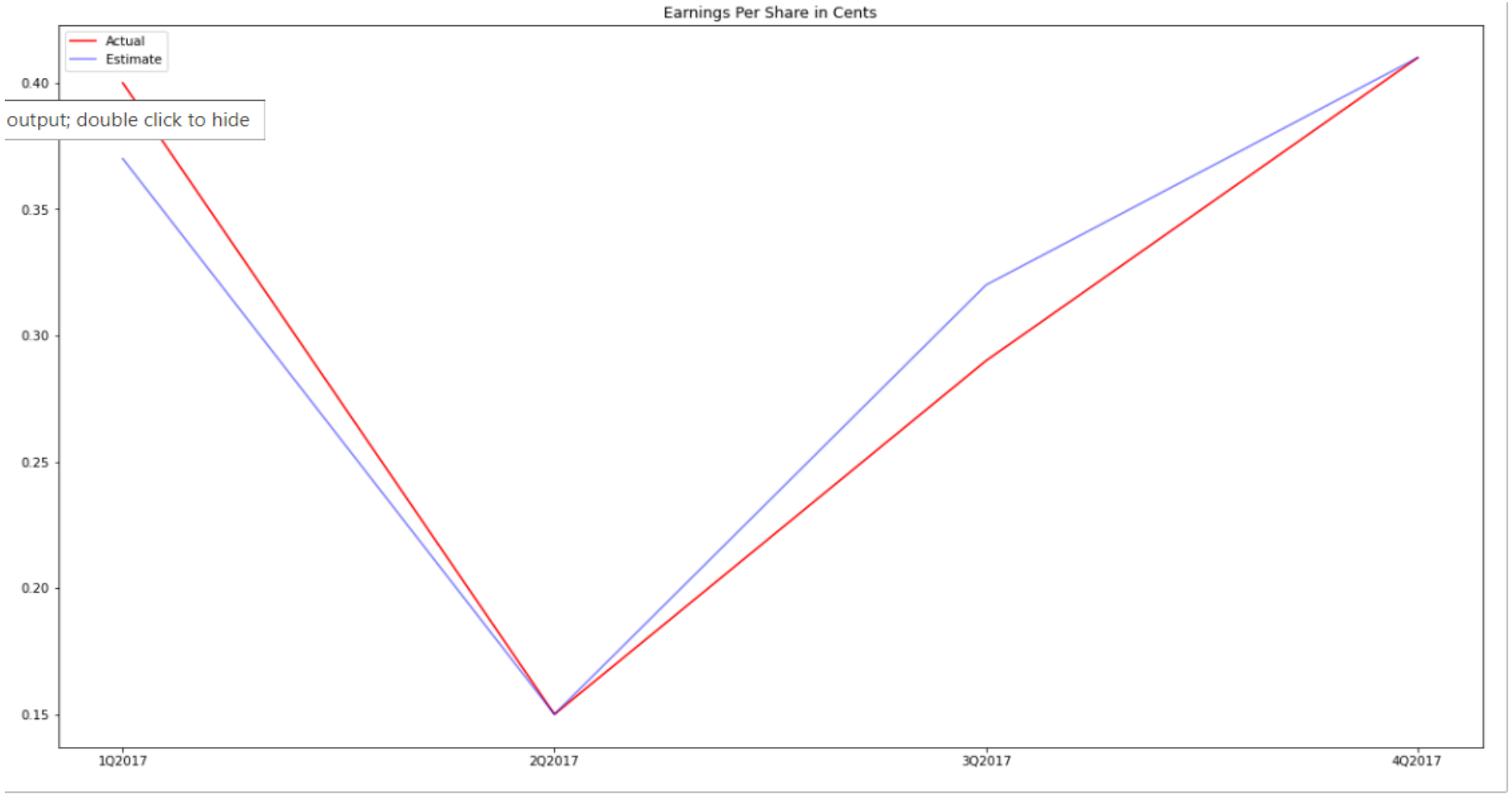
Scatter Plot of the Actual and the Expected Earnings



Scatter Plot of the Actual and the Expected Earnings

The following is estimate Yahoo projected for the Quarter compared to the actual earnings for that quarters. We will accomplish this using a line plot

Scatter Plot of the Actual and the Expected Earnings



Understood From Line plot & Scatter Plot

- **Did the expected earnings match the real earnings ?**

Yes, the expected earnings nearly matched the real earnings

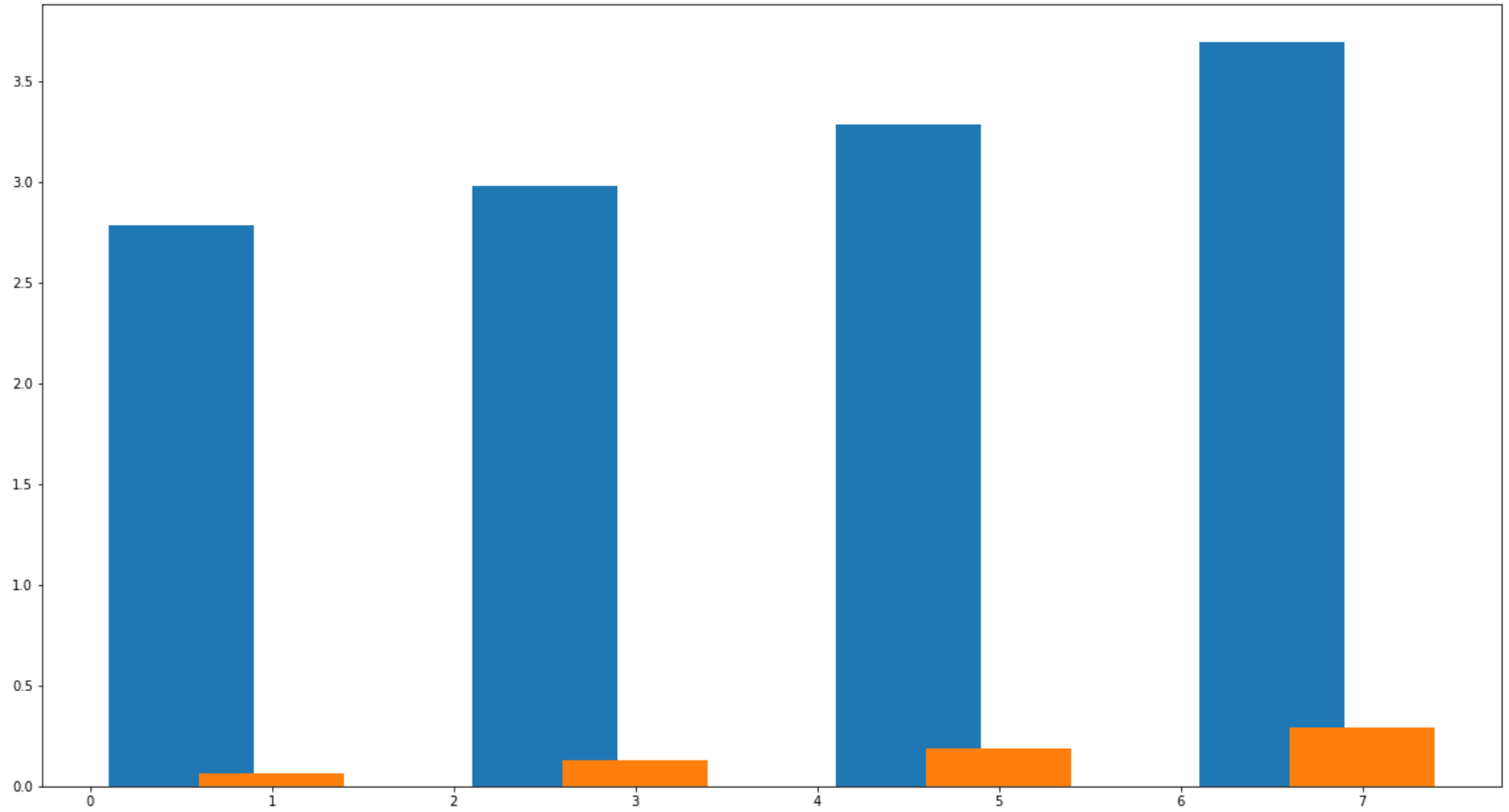
Difference between Earning and Revenue

The difference between **revenue and earnings** is that while **revenue** tracks the total amount of money made in sales, **earnings** reflect the portion of the **revenue** the company keeps in profit after every expense is paid

Bar Chart Explaining the earnings and revenue

The following is a bar chart showing the earnings and revenue by quarter for the Netflix stocks by quarterly

Bar Chart Explaining the earnings and revenue



Understood from Bar Chart

- What are your first impressions looking at the visualized data?

I was surprised .

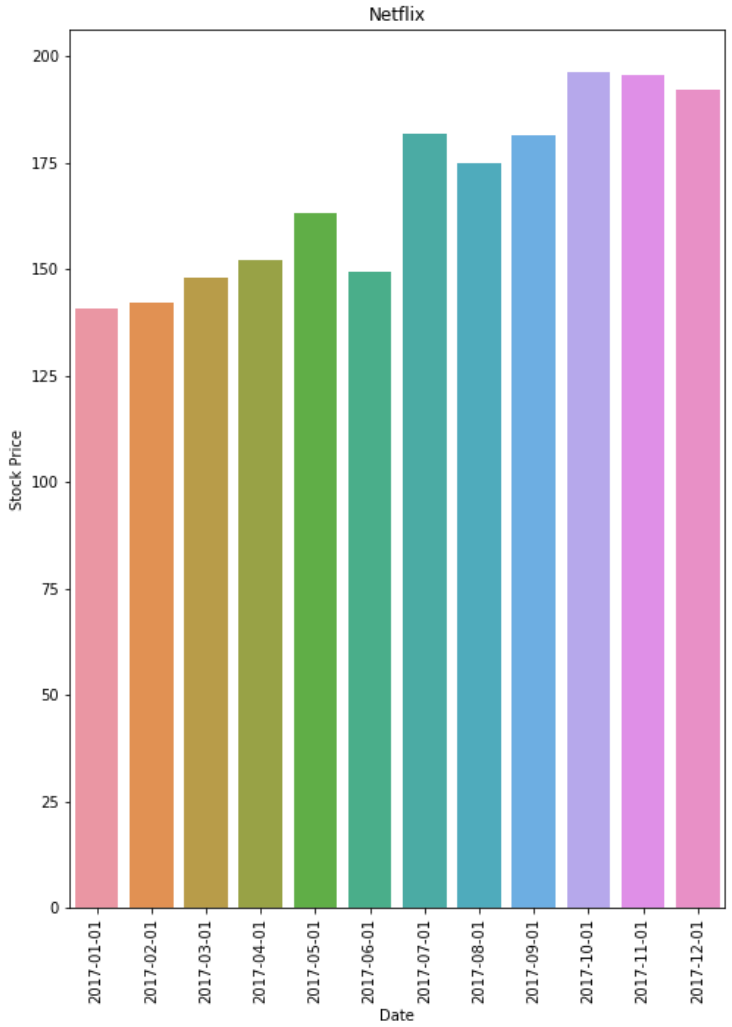
- In what range(s) did most of the prices fall throughout the year?

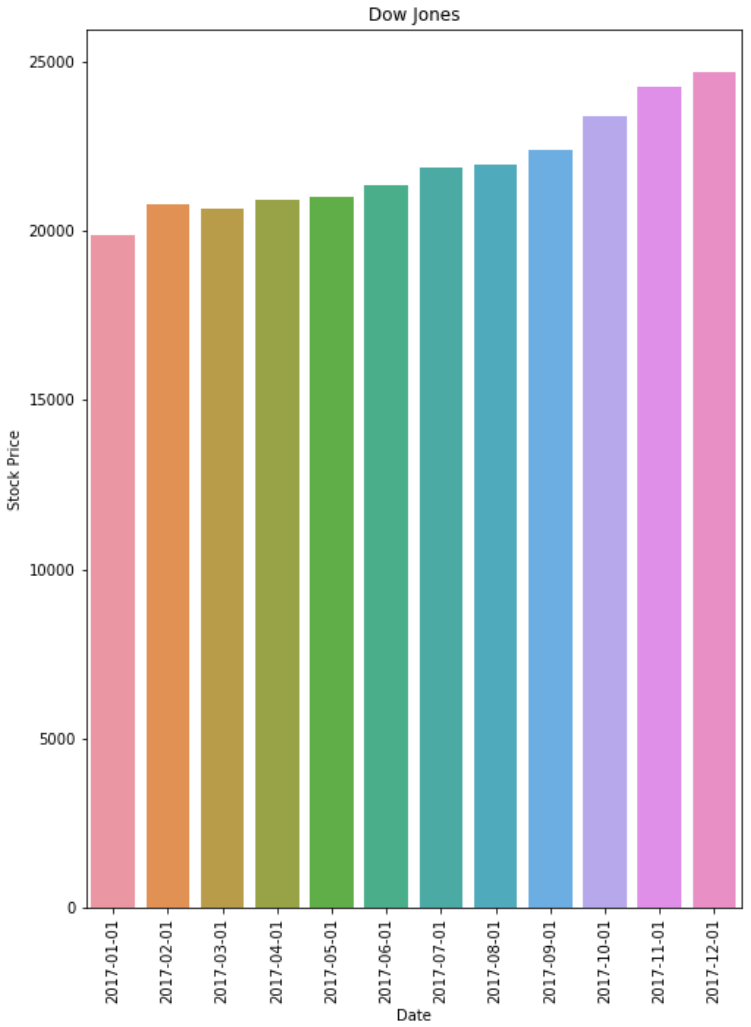
No , They did not

- What were the highest and lowest prices?

The highest prices are mostly in 2Q2018

Comparing Netflix Stock (average)with Dow Jones (averages) Stock





Understood from Bar Chart

- Who wins more ?

Dow Jones wins more than Netflix in average

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