# Netflix data visualisation

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# Visualizations

- Violin plots to visualize quarterly data from Netflix to understand the distribution of prices for each quarter in 2017.

  The data used from the data frame was "Price" (Adj Close) and "Quarter". My role for this graph involved me to use pandas to read the csv data into a data frame and then use seaborn to make the violin plots.

- Scatter plot to show estimated EPS values compared to their real values.

  My role in making the scatter graph was to use Matplotlib to plot the graph.

- Bar plots to visualise earnings and revenue by Netflix.

  My role in plotting the bar plots was to use the matplotlib library to plot the graph.

- Two line plots to compare the Netflix stock price and the Dow Jones price.

  Data used from the data frames of netflix_stocks and dowjones_stocks was "Date" and "Price". My role in plotting this graph was using the data frames made earlier from the CSV files and to plot two line graphs with Matplotlib.

# Distribution of the stock prices for Netflix in 2017



Distribution of 2017 Netflix Stock Prices by Quarter
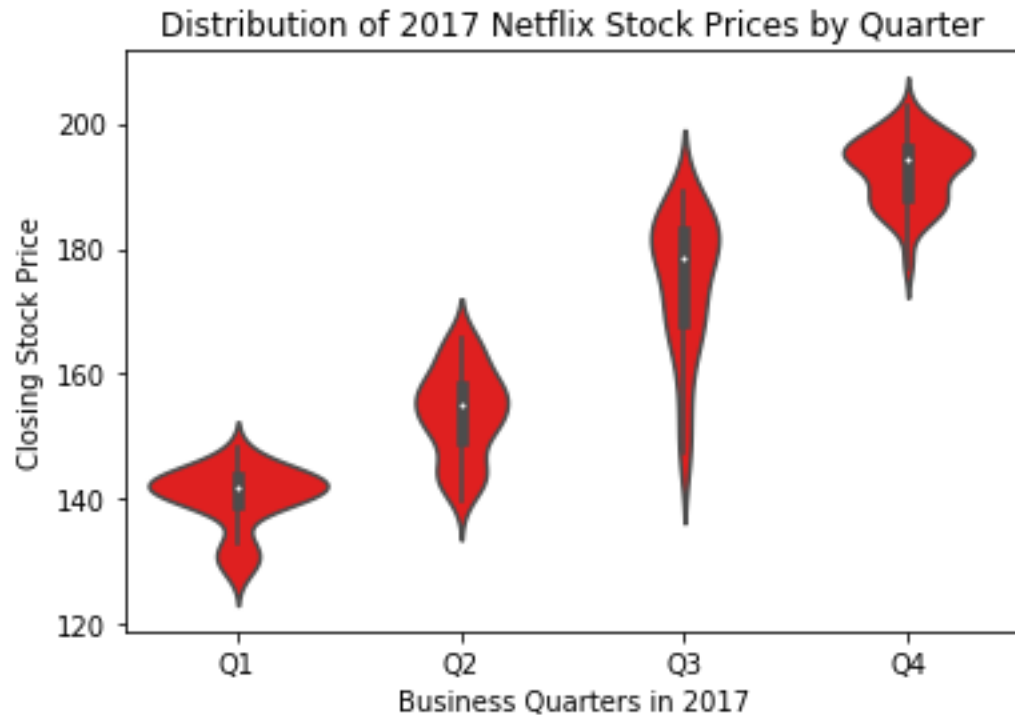
The first impressions I get when looking at this graph is that the share price is increasing every quarter. The most volatile quarter was quarter 3 where price seemed to range from around 140 to 200. The lowest price was around 125 and the highest being around 210.

# Netflix stock and revenue for the past four quarters



Netflix Revenue and Earnings in $ Billions
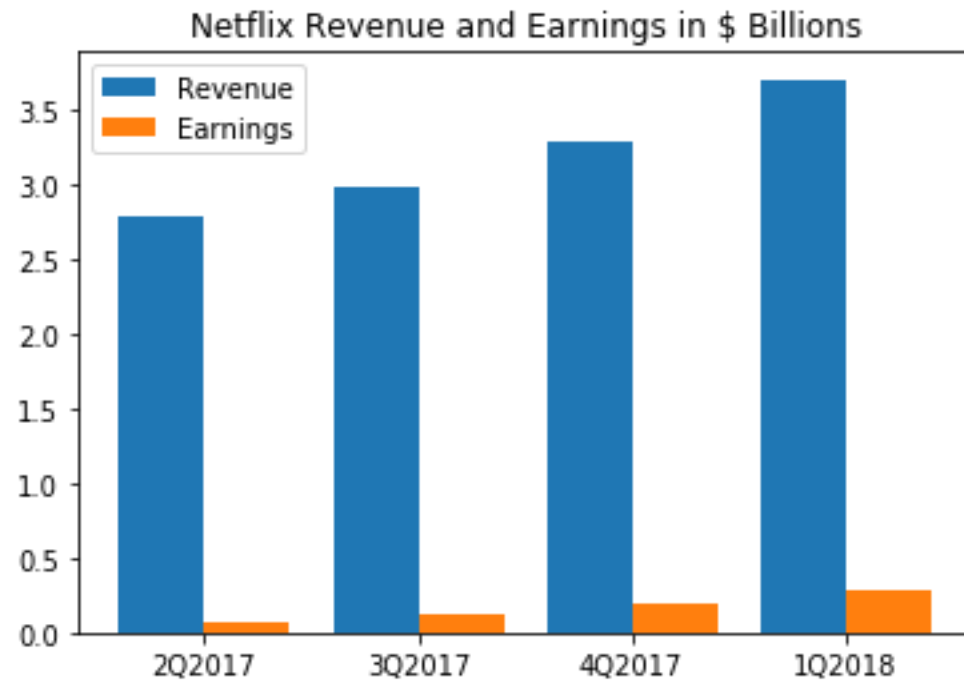
As seen the graph revenue seems to follow an increasing trend for every quarter. The same can be said about earnings as earnings had a positive trend in every quarter. As a rough estimate it appears by looking at the graph that the percentage of revenue constitutes in earnings is about 5%.

# Netflix earnings per share



Earnings Per Share in Cents
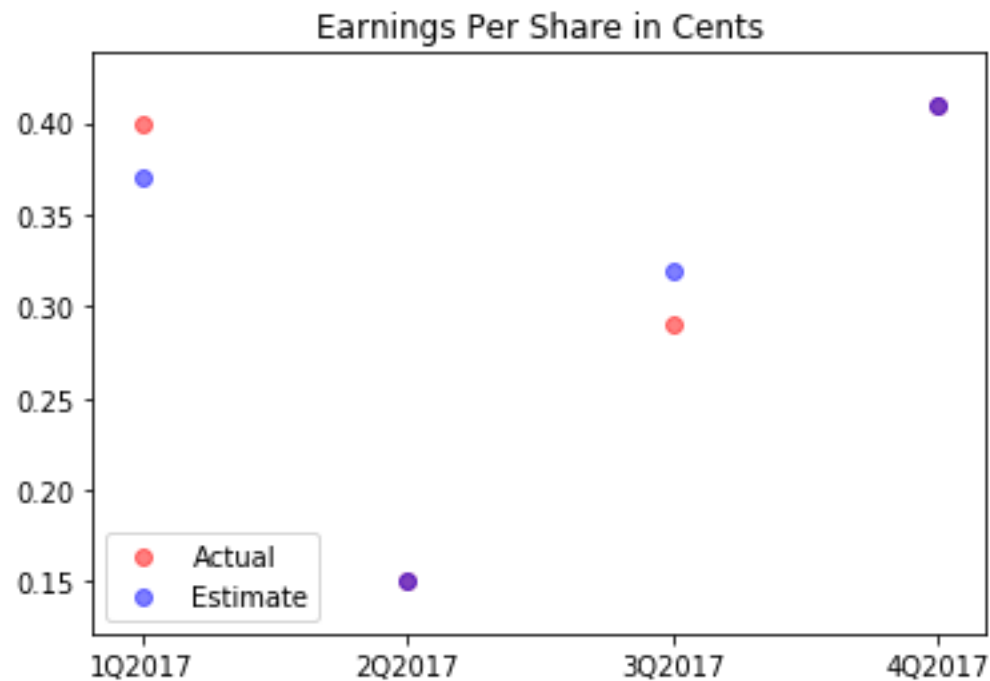
As shown in the graph estimate values where really close to actual values for all quarters. Especially quarters 2 and 4 where one can see the scatter point become purple as both actual and estimate where the same value because blue and red makes purple. The earnings per share seem to be very volatile during 2017 with actual ranges from 0.15 to 0.40.

# Netflix stock against the Dow Jones stock
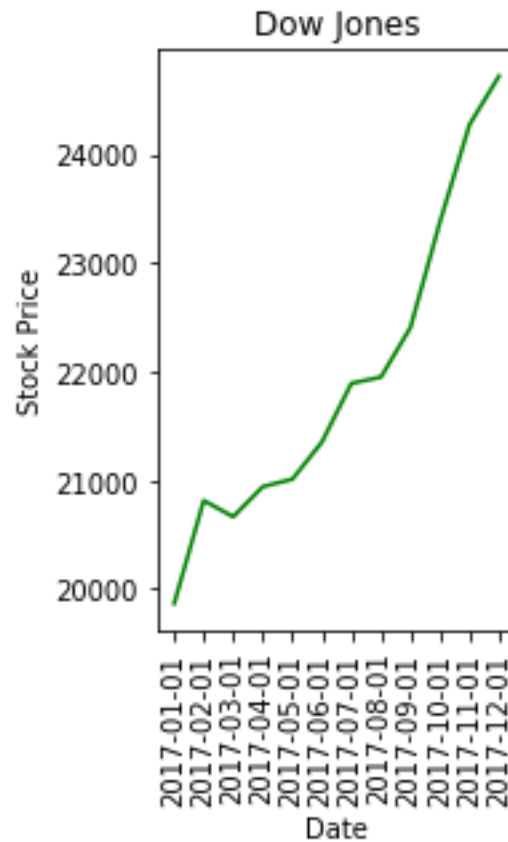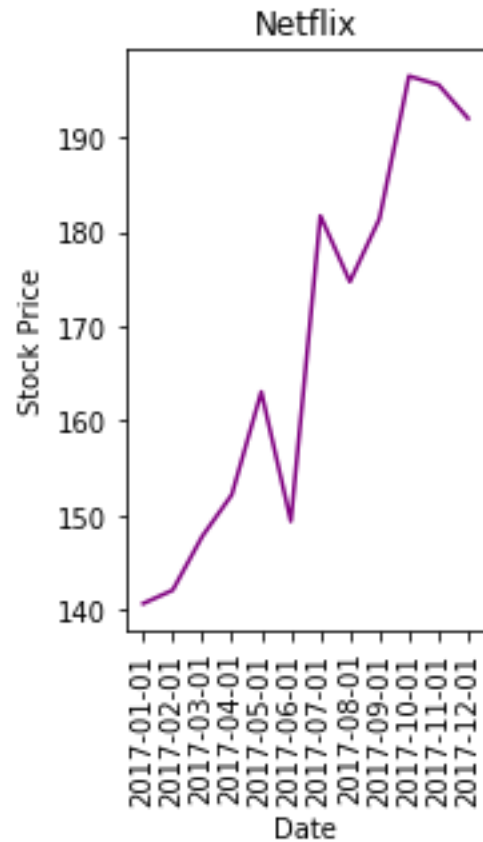


Netflix performed pretty similar to the Dow Jones as they both increased. However in terms of percentage increase Netflix would of given you a higher return as buying in January and selling in December would return around 35%. The Dow on the other hand is around 25% return. Netflix was more volatile because there steep drops around may and June and July to august. The Dow however only had two small drops and followed a steep upwards curve.