



Homework 2 - Part 2

Stock Market Data Visualization

Part A: Stock Market Visualizations

In the historical prices visualization, we see an area plot of the Dow Jones Industrial Average. The stock market index shows the trading of a number of U.S. companies over a particular time period. The more advanced charting allows for better data analysis and comparison, and the table gives some explanation and insights. The area chart is interactive and the hover-over tooltip provides better analysis/exploration of a particular point.

In the Advanced Charting visualization, the user is able to select specific time frames and plotting the average line. The user selects a range, like the first visualization, along with a frequency and encoding type, along with numerous filters to allow the user to take different variables or events into consideration for a time period (such as 1 day, 3 months or 1+ year(s)).

Part B: Stock Market Data

Table 1: Data Types for Dow Jones, NASDAQ, NYSE, and SP500

Column	Data Type
Date	quantitative
Open	quantitative
High	quantitative
Low	quantitative
Close	quantitative

Part C: Plotting with Python

Please see iPython Notebook with markups explaining visualizations, decisions and encodings.