

Project Proposal Feedback:

Group providing feedback: TJ Vonwald-Villiard & James Gibb

Background:

TJ: What is a beeswarm chart?

Answer: It is the same thing as a bubble chart, with the bubble size dependent on one variable and location of the bubble dependent on another. In our case, the size of the bubbles represents the market cap and the location is the percentage.

James: Why the stock market? Do we have a background in the stock market?

Answer: We are all pretty familiar with the stock market, but nothing extensive. The visualizations for the stock market are all pretty static and boring. We wanted to make something more interactive and less boring.

TJ: Going by the half hour?

Answer: Yes, we want to pick a time ticker that doesn't break the dom with how many data points are produced. This ticker could go from seconds to minutes to days to years, depending on what we decide.

Objectives:

TJ: Is there an API to query? – To handle the massive amount of data

Answer: Yes there is, however it costs \$600 to have complete access to it. We are currently using a csv file and appending to it with the new data points.

TJ & James: Very useful with the historical data. The 10Gs are a ton. After a week or two you'd need a data warehouse.

Answer: Yes, unfortunately this is a lot of data to handle and we have to be careful with how we store it. Our scope currently is limited to the csv so we can get the visualizations to work.

James: Fortune 500 dataset?

Answer: there is only the one dataset, and the plan currently is to look at the fortune 500 companies specifically.

TJ: You could cherry pick your data – difficult

Answer: We could cherry pick, but the point of our visualization is to look at as many companies as possible to compare, and cherry picking may become difficult in our web scraping/cleaning.

Data:

James: 15 minute delay is still pretty relevant – in comparison for Yahoo finance API

Answer: Yes, 15 minute delays isn't terrible, and will still provide a good visualization for the stock market.

TJ: Main reason? Bragging rights?

Answer: Static charts aren't interesting and can't provide as much information as we would like to. The multiple interactive parts of our visualization can provide that. Bragging rights are always fun as well.

TJ: Is our current one going to have a timelapse essentially of where it starts and ends up to a given point?

Answer: Providing the prices over the day doesn't matter as much. We will make it so you can select a specific date range you want, click play and the beeswarm and chart will show over time.

TJ: If we had a specific set time period of where people could look?

Answer: We haven't quite decided what the default time period will be, and currently are working on it showing the current day the website is viewed.

TJ: Historical perspective: end of 2019 to 2020 what did it look like? Year long range for the ability to look at change in rates. It would be cool to see those large ranges for historical moments.

Answer: That would be really cool and something we could add on as an optional feature (Shortcuts to 2008 crash or other historical moments in the stock market).

James: Cool article: changes to the market projection. Showed projections after popular crashes and what happened after. Could make our own projections based on what's happening now.

Answer: We will definitely check out that article.

Data Processing:

TJ & James: Where does the python run?

Answer: Currently in a notebook, however the csv itself is static.

Optional Features:

TJ: If we pull off scrubbing, we should definitely win.

Answer: That is definitely a goal of ours, and we hope to pull it off.

Final thoughts:

TJ: good luck 😊