

Graphical tool for analyzing DJA

This final project will show a graphical representation of key financial measures when looking at various stocks in the DJA. By clicking on various buttons different displays will be visible on the program window. I will most likely be building each part of this program, unless I can find an appropriate library. The data will be sourced from Yahoo, Dow Jones and Reuters.

I have not chosen a thesis topic at this point, though learning to create these types of simple graphing utilities will help me create custom visual displays in the future. These custom displays may be applied to my research at a later date.

Project Build Order		
1.	Scatter Plot	Using basic format from Assignment #2
2.	Line Graph	
3.	Bar Graphs	
4.	Main Display Page	
5.	Individual Summary Page	(time permitting)

Main Components

Main Display

- 3 buttons to access the Comparison (Scatter Plot), Returns (Line Graph), Comparables (Bar Graph) + a button to return to Main Page
- List of all 30 companies (time permitting)
 - o Able to click on individual companies which will take you to the Individual profile page

Scatter Plot

- A scatter plot listing the performance of all stocks used in DJA from Aug 31, 2007 – Oct 31, 2008
 - o 3 data sets will be used for comparison
 - YoY Share Performance
 - Initial Market Capitalization
 - % of DJA that is used for calculating index
 - o X-Axis and Y – Axis will be able to display all 3 data sets on either axis
 - o Color 0 = Broad industry category

Line Graph

- A line graph showing the performance of various Dow Jones stock indexes from Aug 31, 2007 – Oct 31, 2008
 - o Aug 31, 2007 base year = 100
 - o Measured using month to month performance at beginning of month

Bar graphs

- A selection of bar graphs that are activated by using a call button
 - Several key financial measures will be displayed for each stocks each measure will be activated by clicking on a button.
 - The previous 4 quarters will be displayed where applicable
 - When possible, Industry, Sector and S&P 500 will be shown for comparison

Individual Summary (time permitting)

- A screen showing the line graph and all bar graphs for each company
 - o A line graph showing the individual stock from Aug 31, 2007 – Oct 31, 2008
 - o A line graph showing the DJIA from Aug 31, 2007 – Oct 31, 2008
 - o Company specific bar charts for each of the measures found on the bar graphs

Fallback Plan

Can't Display Data

- In case of issues in displaying the data from a text file, each window will be hard coded using the appropriate data.
- If necessary, the number of companies will be reduced to reduce amount of code and programming

Can't Access Data source

- Use internal SFU libraries, google or other sources
- Still no source, create randomly generated data

Can't create line graph

- Switch out for an image of the line graph which was generated in excel

Short on time

- Certain functionalities will be reduced (individual summary and list of all 30 companies)