JavaScript Graph

Documentation

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Abstract: The purpose of this project is use our JavaScript and backbone knowledge to make a histogram that reflects the percent change a few selected stocks experience in a day. The value will be defined by its operator (+ / -). The illustration will be made up of a histogram chart. The histogram will show percent change of each stock. A drop in the stock price will be illustrated by a red bar, and a gain will be expressed with a green bar. Below each bar will be the company, stock symbol, and the loss or gain of points.

Team Members

James Griffith - **Programmer / Designer**

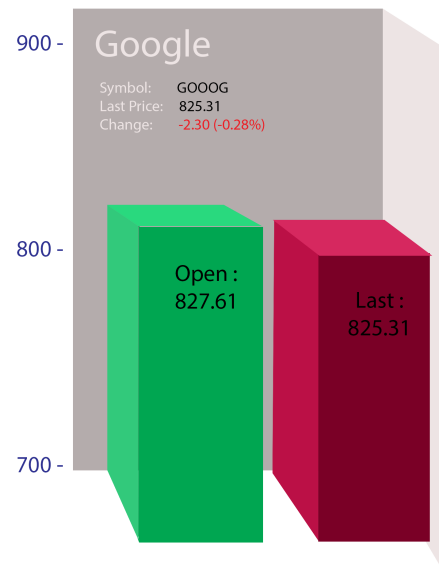**Jennifer Soh** - **Programmer / Designer**

Our team is comprised of two people. Our plan is to collaborate via e-mail and chat programs and have an equal share in designing and programming every part of the project.
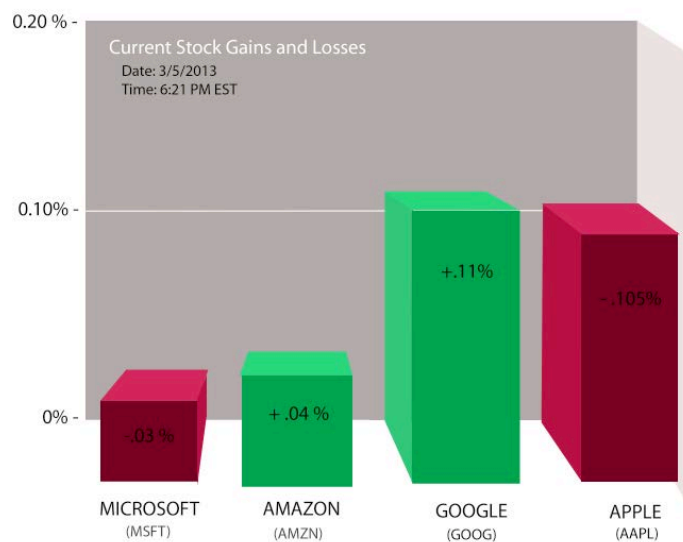
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Mock-Ups of potential designs

Google :   - 2.30
Amazon :   +0.97
Facebook :   -0.75
Microsoft :   +0.01
Apple :   -0.08

Plan: Use a factory pattern to render the histogram and re-render it when an api updates. Click on the company to switch out the chart. We could also elongate the chart to emphasize the change or just repeat the chart for each company.

900 -

Google

Symbol: GOOOG
Last Price: 825.31
Change: -2.30 (-0.28%)

800 -

Open :
827.61

Last :
825.31

700 -

0.20 % -

Current Stock Gains and Losses

Date: 3/5/2013
Time: 6:21 PM EST

0.10% -

+.11%

-.105%

0% -

-.03 %

+ .04 %

MICROSOFT   AMAZON   GOOGLE   APPLE
(MSFT)   (AMZN)   (GOOG)   (AAPL)

Red Indicates Percentage Lost

Green Indicates Percent Gain

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How it will work

The progam will be written in JavaScript/ jQuery, using Backbone to communicate with an API. A factory patter will be used to create each bar object, and data from the API will be converted to coordinates. When the coordinates are made, they will be plotted in their respective places.

Hardware Requirements

This project will be created on a PC or Mac. It can be displayed on any device and should automatically update as the API updates the information.

Functionality

The functionality of this project include real-time information, color graphics and animation. Some of the functionality serves a purpose and some is just for show. Most of the functionality will be geared towards tracking the gains and losses of popular tech companies.

Software Requirements

This program will be created with a simple text editor and tested with a few browsers to check cross-browser compatibility. The text editor will need the flexible ability to save files in various different file extensions.