

Data in the Stock market

The image is a conceptual graphic with a dark gray background. At the center is a large circle containing the words 'BIG DATA' in white, with 'BIG' in a smaller font above 'DATA'. A network of white lines radiates from this central hub to ten smaller circular icons arranged around it. These icons include: a bar chart, a magnifying glass over a line graph, a pie chart with a percentage sign and candlestick bars, a flowchart with three boxes, a laptop displaying a bar chart, a bar chart with an upward-pointing arrow, a network of three nodes, a bar chart with an upward-pointing arrow, a bar chart with an upward-pointing arrow, and a bar chart with an upward-pointing arrow.

By Daniel Ocampo & Henry Wang

Motivation

- **Real-life problem**
- **Learn some data mining**
- **Learning about stocks**

Approaches

Part 1

- Data Collection
- MySQL for database

Part 2

- PHP

Schema

- Date
- Open
- High / Low
- Closed
- Volume
- Adjusted Closing Price
- ID (Primary key)

MAMP

- PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language.
- Hypertext Markup Language, a standardized system for tagging text files to achieve font, color, graphic, and hyperlink effects on World Wide Web pages.

MySQL

MySQL is an open source relational database management system. Information in a MySQL database is stored in the form of related tables. MySQL databases are typically used for web application development (often accessed using PHP)

What we found

- The economy has improved since 2008
- 5% percent unemployment rate (2015 & 2016)
- $\text{Unemployment Rate} = (\text{Number of Unemployed} / \text{Labor Force}) * 100$
- Stocks index for 2015 & 2016

Challenges

First time using PHP

How to build the database

Querying

Time to show the work !