What is S&P 500 index?

- an overview of the most followed equity index

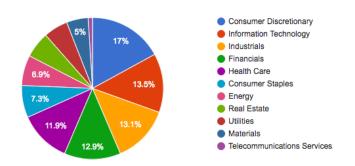
Overview

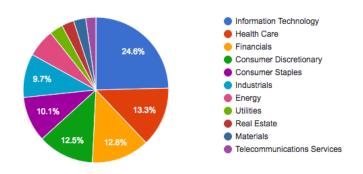
- Who is the audience
 - People who have limited knowledge in finance
- Why do I care?
 - one of the most commonly followed and cited equity indices, and many considered it a bellwether or the U.S. economy
 - it is a reflection of the composition of the economy (It's old but its components change over time)
 - Boring?? but most hedge funds in the last few years cannot beat the benchmark index (passive investment vs active investment)
- What's S&P
 - an American stock market index
 - based on the market capitalizations of 500 large companies having common stock listed on the NYSE or NASDAQ.
 - it's market-weighted
 - S&P 500 was founded in 1957, and it gave rise to indexing
 - 500 stocks but it comprised of 80% of the market

What's in the index

Number of Company by Sector

Market Capitalization by Sector





- SP500 is very diverse has 11 major sectors
- · Consumer Discretionary is the most popular sector
- Information Technology is the biggest sector by market capitalization.
 - the top 3 sectors in the index (Information Technology, Health Care and Financials) comprised of more than 50% of the index

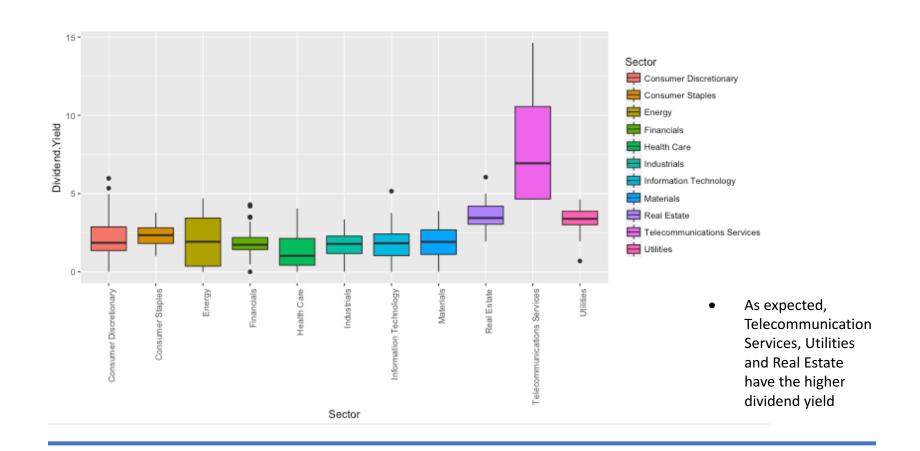
Overview What's in the index Market Capitalization by Sector Fundamental Ratio by Sector Sector Sector Range, and Company Size What's Next

Market Capitalization by Sector



- company's market capitalization is not normally distributed (even after log transformation)
- Movement of big companies has a greater impact on the index
- Example of outliers:
 - Information Technology (Apple, Alphabet, Microsoft, Facebook)
 - Consumer Discretionary (Amazon)
 - Energy (Exxon Mobil)
 - Health Care (Johnson & Johnson)
 - Financial (JP Morgan, Wells Fargo, Bank of America)

Fundamental Ratio by Sector (I) (Dividend Yield)

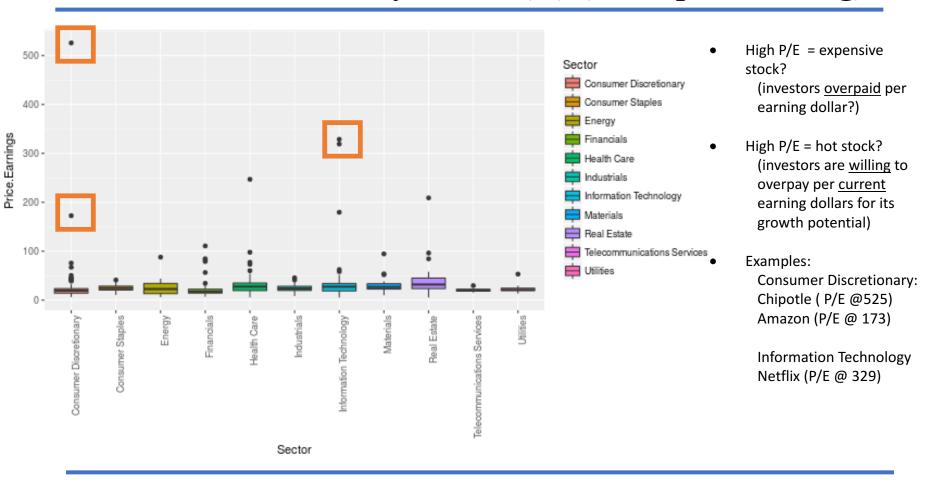


Overview What's in the index

Market Capitalization by Sector Fundamental Ratio by Sector 52 Weeks High, Price Range, and Company Size

What's Next

Fundamental Ratio by Sector (II) (Price per Earning)



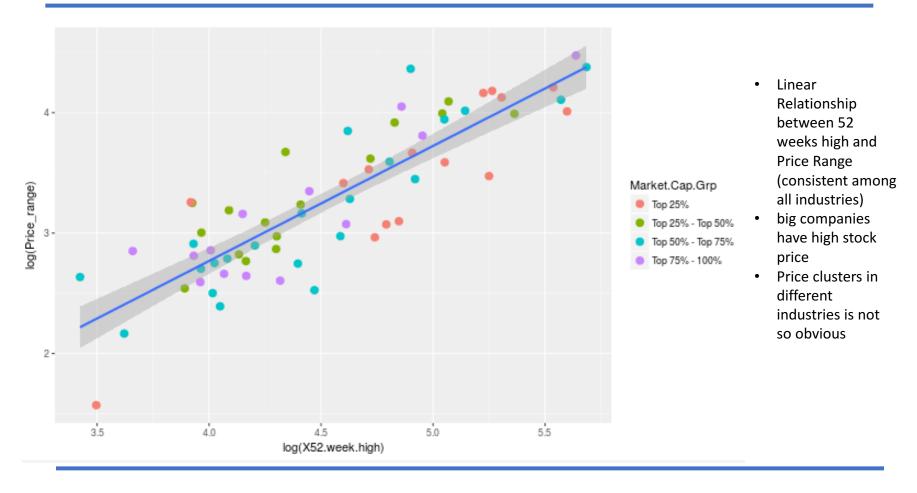
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Market Capitalization by Sector Fundamental Ratio by Sector 52 Weeks High, Price Range, and Company Size

What's Next

52 Weeks High, Price Range & Company Size



Fundamental Ratio by Sector

52 Weeks High, Price Range, and Company Size

What's Next

What's Next?

- Summary
 - S&P500 has a diverse sector distribution
 - Dynamic nature of the index, it reflect the current state of the economy
 - Some statistics reflects "hotness" factor? and it is relevant to us!!!
- How can I improve this project?
 - Improve graph (more interactive)
 - Incorporate time dimension
- Any Questions and comments?