- Algorithms
 - Look at general trends for the past 5 years
 - Ex: Apple releases a new iphone every June, so stock prices increase every june 8 blah blah
 - Look at current trends
 - Only look past the economic recession in 2008
 - Issues
 - Price kept increasing...
 - Exponentially started increasing
 - How to exclude any data outliers
 - Ex: The price radically shot up that; uncharacteristic of the typical stock
 - Somehow incorporate the GDP and any other indicators of an economy
 - Larger GDP, more stock market growth
 - GDP Smooth curve, stock market isn't
 - Derivative of the GDP (Change in slope)
 - When GDP has radical rate of growth slower than normal, stock market "corrects" itself and prices go down
 - Have an algorithm that accounts of all externalities
 - o Brexit, terrorist attacks, weakening of the EU
 - Ex: when the stock market shot up before the recession, would there have been a way to have know that it wasn't sustainable?
 - Compare stock market to historical P/E ratios (price earning)
 - Was typically 12-14 but when increased to 17-18, it's more dangerous
 - "Herd mentality"
 - How do I account for inflation, interest rates, etc.
 - Inflation doesn't have a trackable trend; don't incorporate it
 - If people think FED will make a change, stock markets responded dramatically
 - FED Attacks unemployment & inflation
 - If Markets expectations FED easing of monetary policy
 - FED raises rates over a shorter time span than the market
 - Unemployment has a limit
 - Factors
 - Work Productivity:
 - GDP divided by the number of hours worked
 - Productivity refers to the resources available to the workers
 - Change weight of indicators based off of events