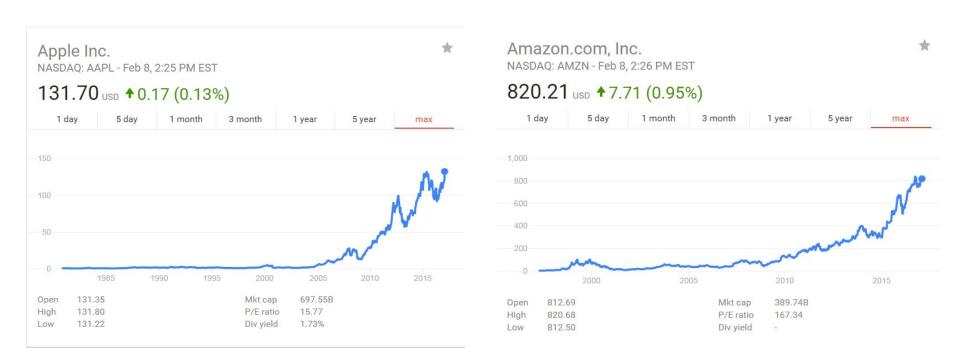
Quantitative and Automated Trading via Quantopian.com

a GR Big Data Users Group Presentation by Tyson Spoelma

What is the best way to make a ton of money in the stock market?

*Disclaimer: I am not a financial advisor. Invest at your own risk.

What is the best way to make a ton of money in the stock market?



What is the best way to make a ton of money in the stock market?

 Take out human bias and emotions and make stock buying and selling decisions using a disciplined quantitative valuation method

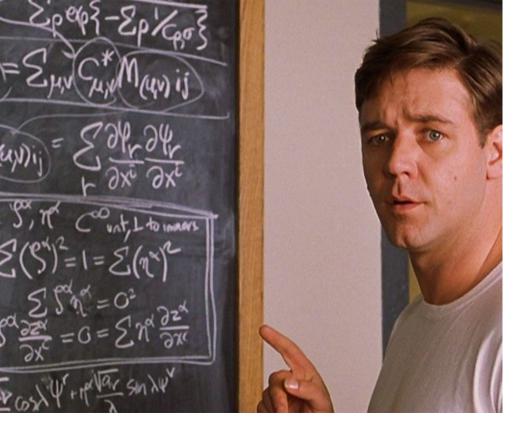
What is the best way to make a ton of money in the stock market?

 Take out human bias and emotions and make stock buying and selling decisions using a disciplined quantitative valuation method

Automate the system

What is the best way to make a ton of money in the stock market?

- Take out human bias and emotions and make stock buying and selling decisions using a disciplined quantitative valuation method
 - Buy cheap stocks with low **Price to Book** ratios
 - Buy the most popular stock based on Sentiment Analysis
 - Ask your cat to pick 20 stocks (Random Walk Down Wall Street)
- Automate the system
 - Hire a Financial Advisor
 - Buy into an Index Fund
 - Write a program to take in all the necessary information and make the trades for you



How do I start?

Get Data

Test Strategies

Submit the Strategy for Live Trading

Quantopian

Data

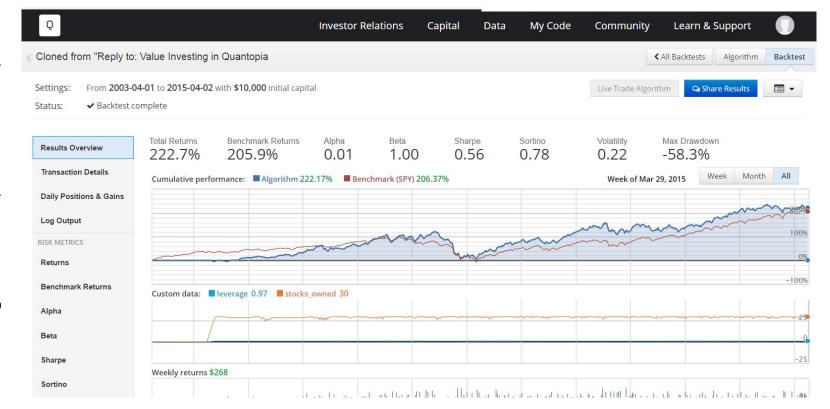


- **Fundamentals** (Free)
- Mood from PsychSignal (Free)
 - The mood of traders posting messages on Twitter with Retweets and StockTwits
- **Mergers and Acquisitions** (Premium)
- **Zacks** Earnings Suprises (Premium)
- **Buyback** Announcements (Premium)
- Index Changes (Premium)
 - Dataset of index additions and deletions to major S&P, Russell and Nasdaq 100 indexes
- **CEO** Changes (Premium)
- **Clinical Trial** Announcements (Premium)
- **13-D** Filings (Premium)
 - Dataset of 13D Filings with SEC by activist shareholders disclosing a beneficial ownership of 5% or more

Formula (Joel Greenblatt) Magic |

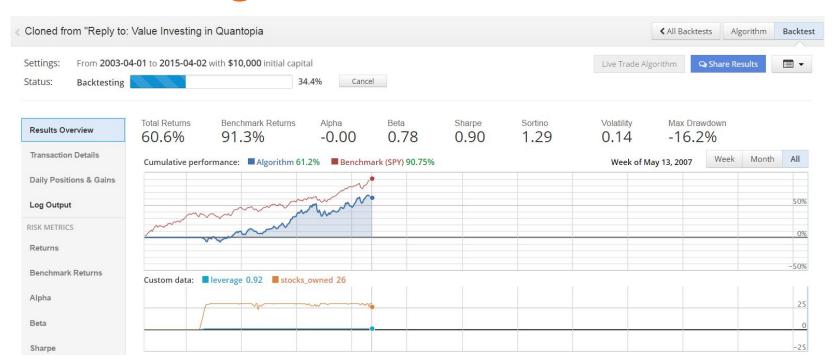
Test Strategies





Test Strategies





Copy Strategies



A Simple Momentum Rotation System for Stocks



Performance Risk Metrics Source Code Migrated Source Code

Backtest from 2003-01-04 to 2015-11-30 with \$100,000 initial capital

Cumulative performance: Algorithm 249.16% Benchmark (SPY) 63.34%

Week of Jan 28, 2008

1000%

500%

Live Trading: (Warnings)

- Your Backtested strategy doesn't perform as well in the future
- You're not that patient
- After a number of successful years of trading you may not be able to trade the small cap stocks anymore due to liquidity. Moving to a bigger companies (higher Market Caps) may may ruin your strategy.

What is the best way to make a ton of money in the stock market?

Just buy the S&P 500 index (\$SPY).

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