"VIX plus Junk Bond signal" By Randy Olsen Dec 5 2020

Risks with Stocks

Recent market challenges... especially the fast crash of Covid

Review of Junk Bond signal

What is the VIX? Volatility index = Fear Gauge

Recipe for how to do this

Results

Why does this work?

Limitations (this is not a 100% solution)

Presenter is **not** a financial professional

Physicist (not a financial analyst)

These materials are for educational and entertainment purposes only and are neither a solicitation, nor an offer to buy or sell any financial instrument. All information provided here is the personal opinion of the author. The author, AAII, AAII-San Diego Special Interest Group leaders and members, make no claim that the information in any of these presentations is correct. Under no circumstances should any of the information in these presentations be taken as personal or individual trading advice. Past performance and/or hypothetical results of any trading method are not indicative of future results. Trading and investing in any financial instrument carries high levels of risk and may not be suitable for all investors. You should be aware of all the risks associated with trading, and seek advice from a financial professional, if you have any doubts. The author, AAII, AAII-San Diego Special Interest Group leaders and members, will not assume any responsibility whatsoever for the actions of the reader nor financial losses that may result from the use or misuse of the information presented.

Legal Disclaimer And Risk Disclosure



I'd like to thank Rob Bernstein for all his work to create Fast Track plots of much of this data.

I really appreciate his support on our joint efforts, reported here, to find better signals to reduce investor's risks.

WHY STOCKS?

Growth of a \$1 Investment: 1926-2013

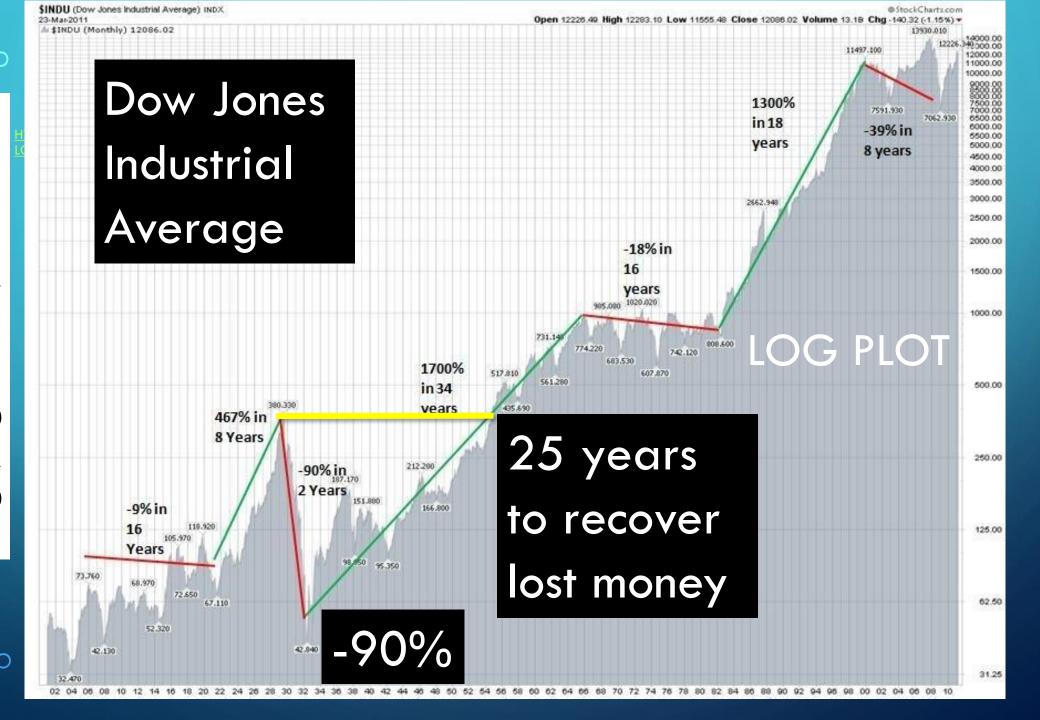
(Selected Indices; dividends and capital gains reinvested)

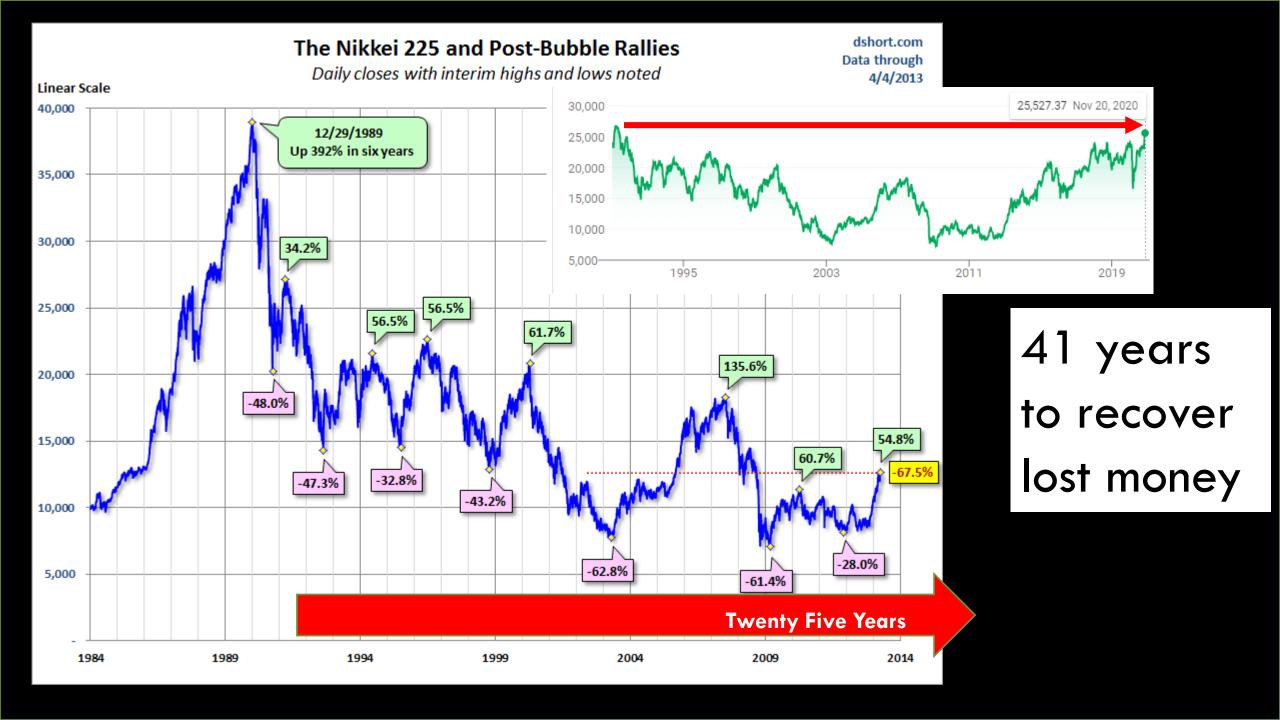


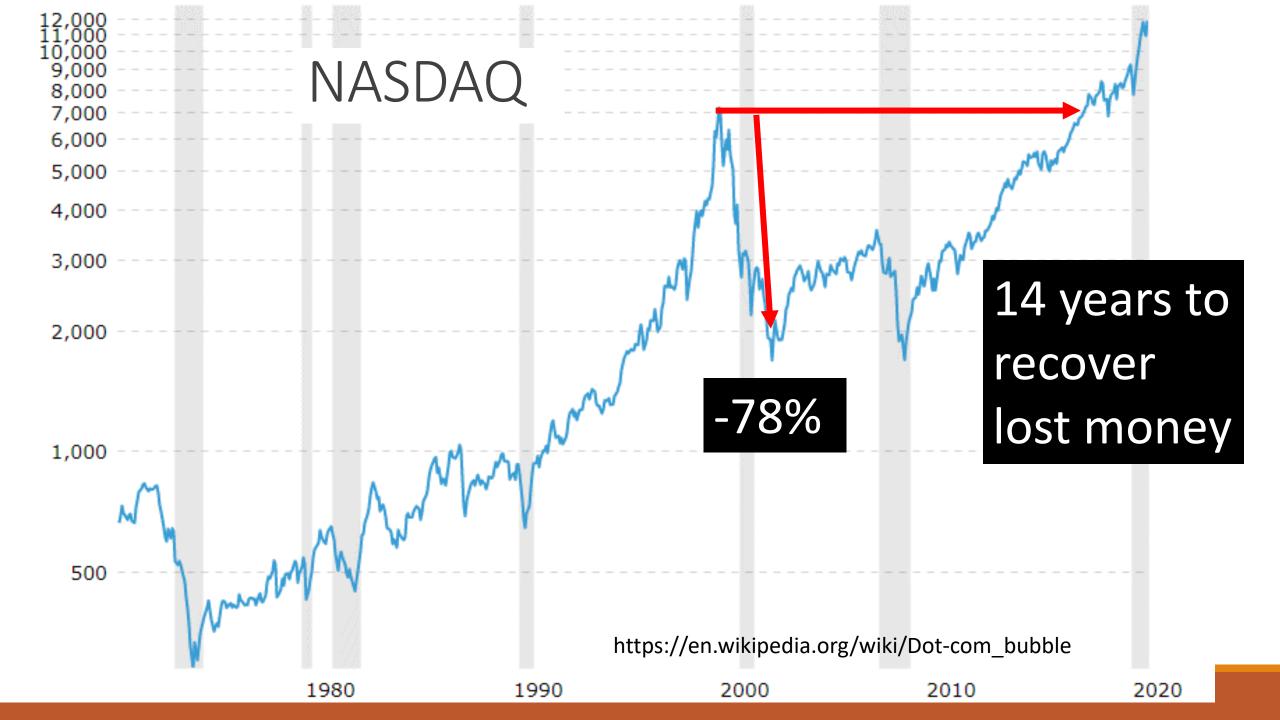
Source: DFA Returns Program 2.0. Small Company Stocks = CRSP 6-7-8 Index; Intermediate Bonds = 5 Year Treasury Notes; other indices are self-explanatory

BUT STOCKS HAVE RISK

WHY I CAN'T DO BUY & HOLD







Is it possible to outperform the S&P 500?

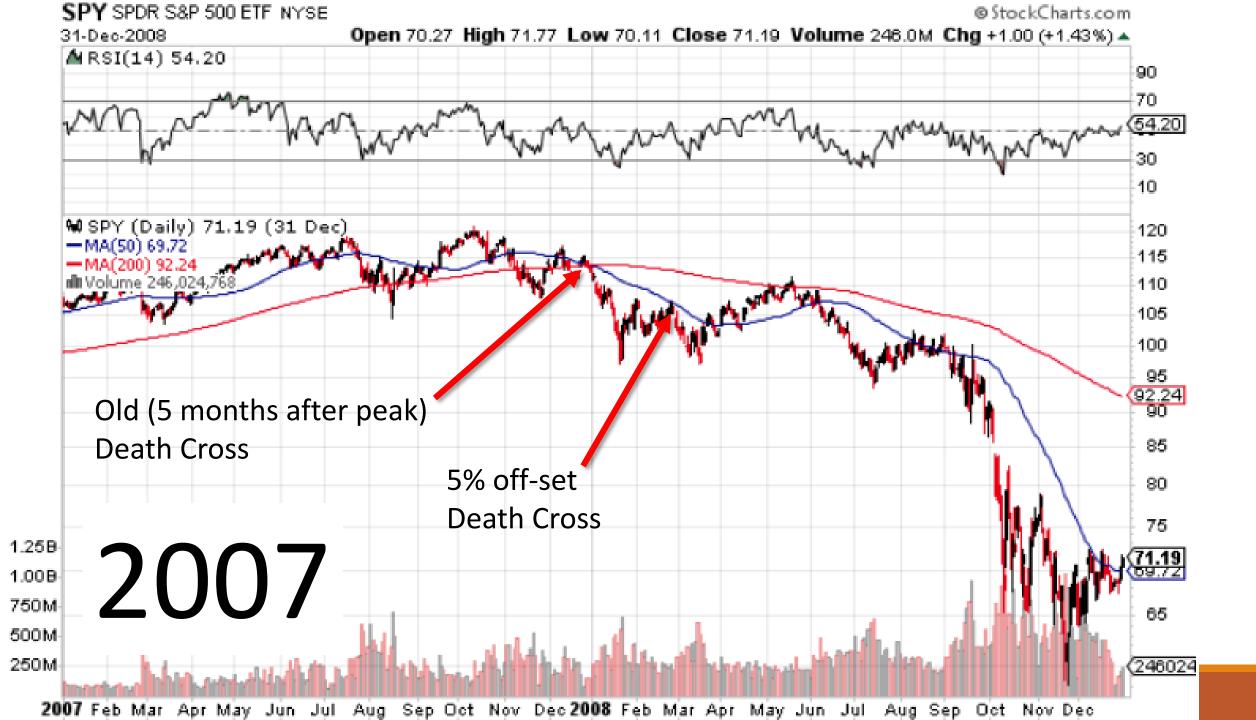
Yes

Example 50D/200D moving average crossing

50Day/200Day moving average crossings







MONTHLY MOVING AVERAGE (MMA) TIMING STRATEGY	EXCESS ANN TR		WIN % ON ANN TR	
	vs. X/Y	vs. RISK	vs. X/Y	vs. RISK
U.S. EQUITIES, 1871 - 2015	1.5%	0.5%	100.0%	66.7%
U.S. FACTOR INDICES, 1928 - 2015	0.9%	-0.4%	93.3%	23.3%
30 U.S. INDUSTRIES, 1928 - 2015	1.0%	-0.2%	83.3%	43.3%
10 U.S. SECTORS, 1928 - 2015	1.1%	-0.4%	100.0%	40.0%
FOREIGN EQUITIES USD, 1971 - 2015	2.5%	1.9%	89.6%	74.0%
FOREIGN EQUITIES LOCAL CCY, 1971 - 2015	1.5%	1.4%	77.4%	74.2%
FOREIGN EQUITIES LOCAL CCY, 1901 - 1971	1.7%	0.0%	87.5%	37.5%
GLOBAL CURRENCIES, 1973 - 2015	1.5%	1.6%	90.9%	86.4%
FIXED INCOME, 1928 - 2015	0.4%	-0.3%	63.6%	9.1%
COMMODITIES, 1947 - 2015	3.4%	3.2%	100.0%	100.0%
100 LARGEST S&P 500 STOCKS, 1963 - 2015	-1.5%	-3.4%	27.0%	12.0%
BUBBLE ROADKILL SAMPLE, 1981 - 2015	3.8%	10.3%	71.4%	90.5%
ALL INDICES TESTED	1.6%	0.9%	87.6%	59.0%
ALL SECURITIES & INDICES TESTED	0.9%	0.3%	69.6%	47.6%

Trend Following In Financial Markets: A Comprehensive Backtest

http://www.philosophicaleconomics.com/2016/01/movingaverage/
market timing paper

Performance is excellent in all categories except the individual S&P stock category



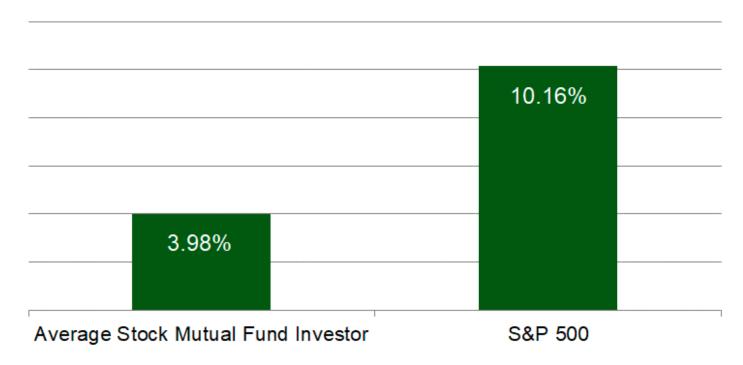
50D/200D MA CROSS

Return	Description	MDD
4.57	S&P500 DA - Buy and Hold	55.31
7.24	S&P500 DA - 50/200 MA Cross	18.09

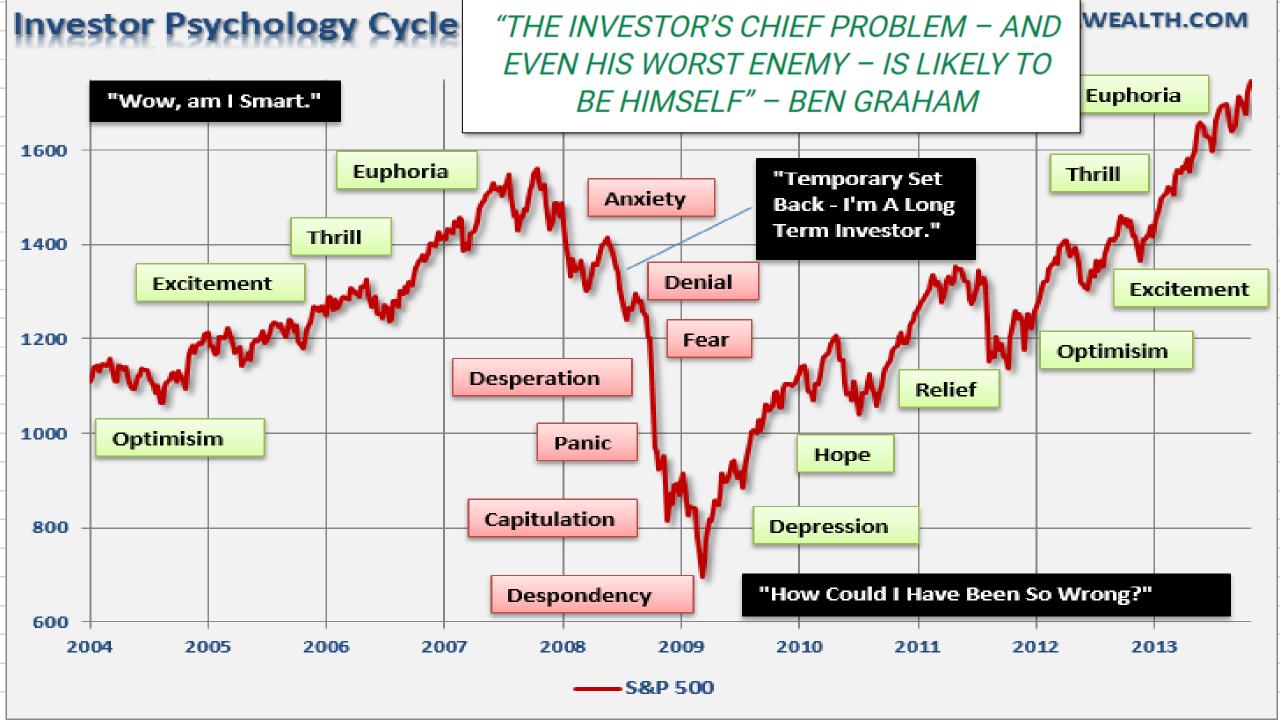


"THE INVESTOR'S CHIEF PROBLEM – AND EVEN HIS WORST ENEMY – IS LIKELY TO BE HIMSELF" – BEN GRAHAM

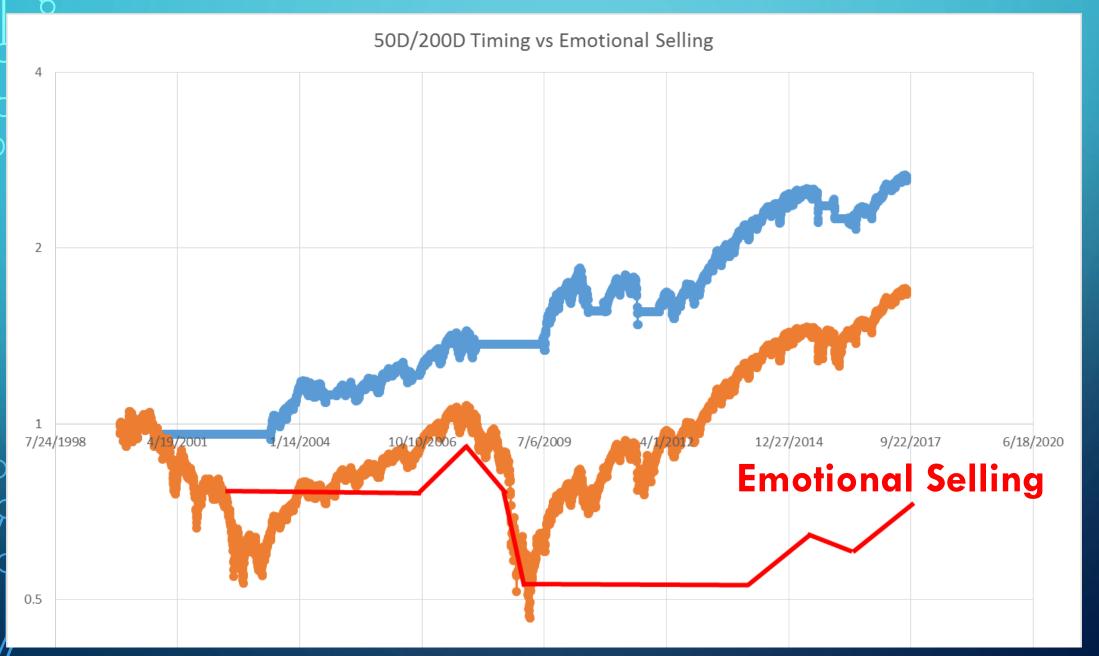




"Source: "Quantitative Analysis of Investor Behavior," DALBAR, Inc., March 2017. This study was conducted by an independent third party, DALBAR, Inc. A research firm specializing in financial services, DALBAR is not associated with U.S. Asset Management, Advisory Services Network or Calton & Assoc. The information herein is believed to be reliable, but accuracy and completeness cannot be



EMOTIONAL SELLING

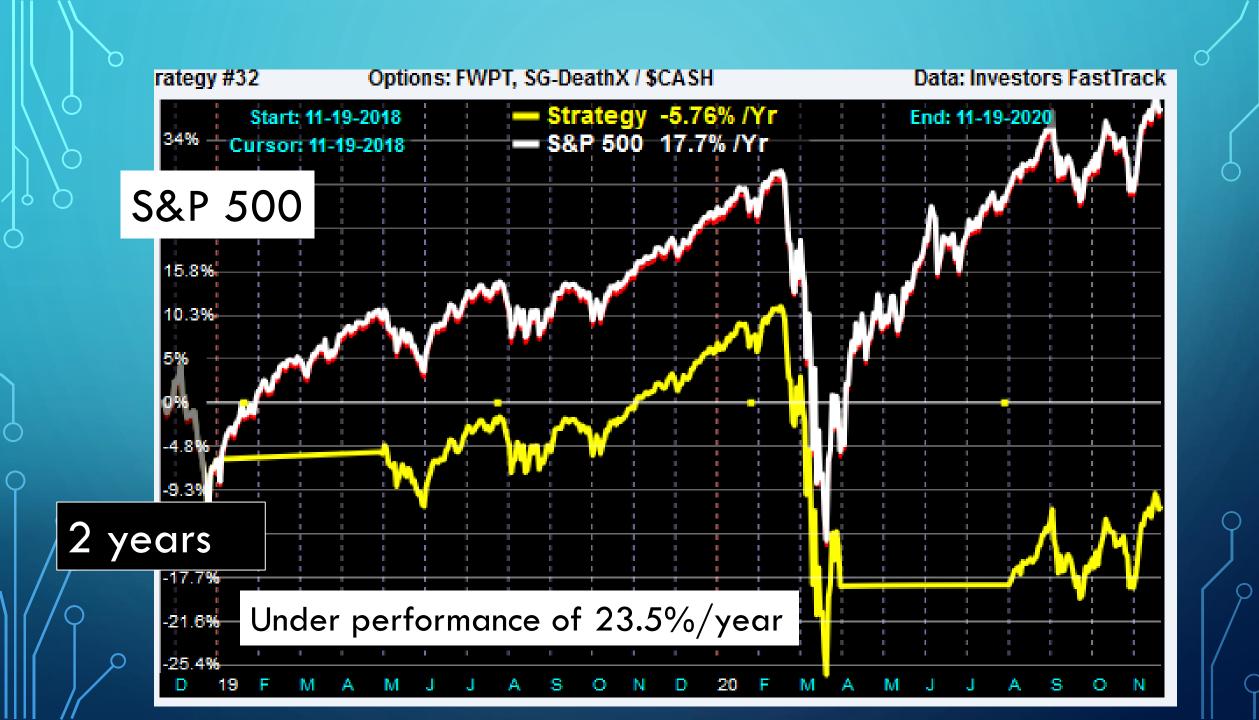


- •But the 50D/200D moving average crossing approach
 - has developed a Serious Problem in the Post-Global Financial Crisis market





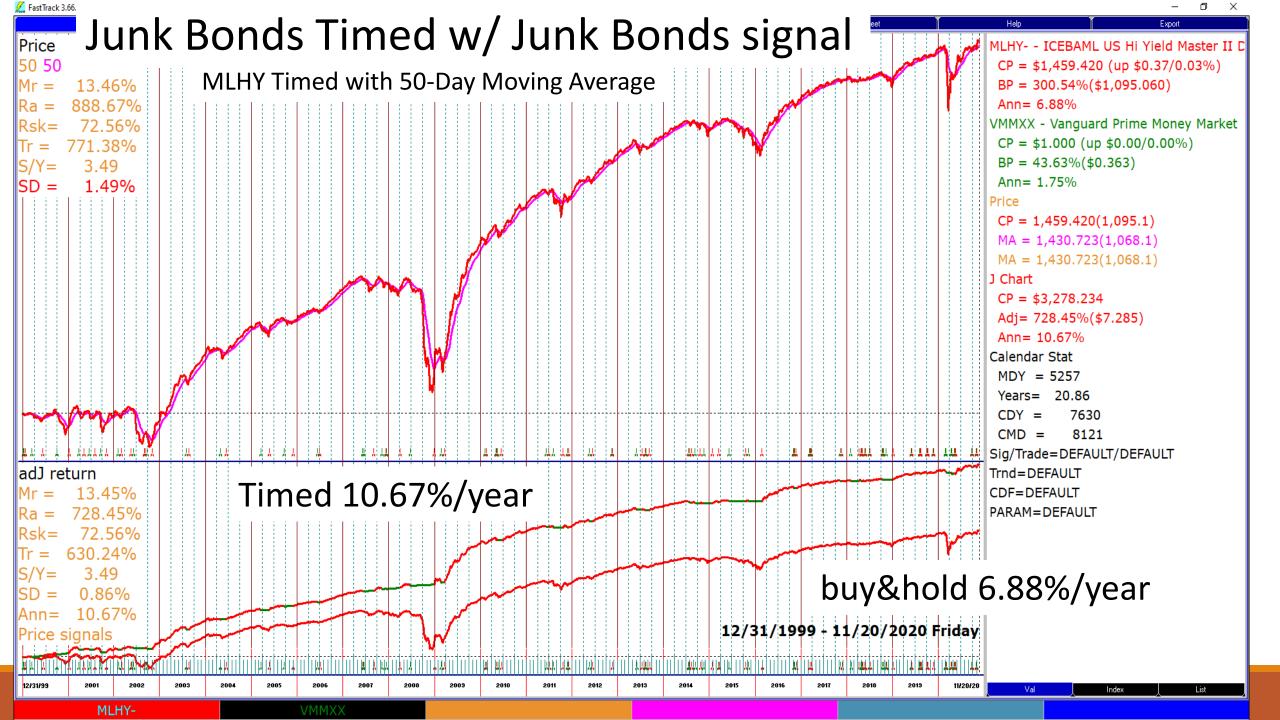


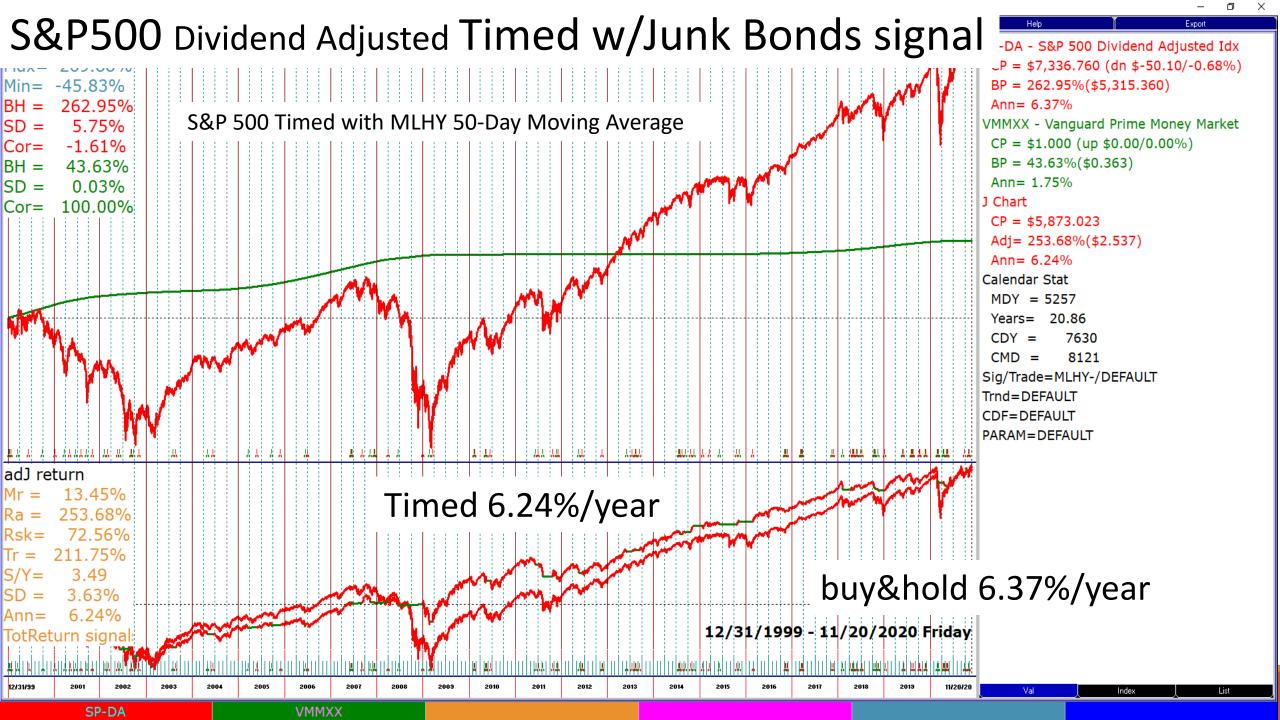


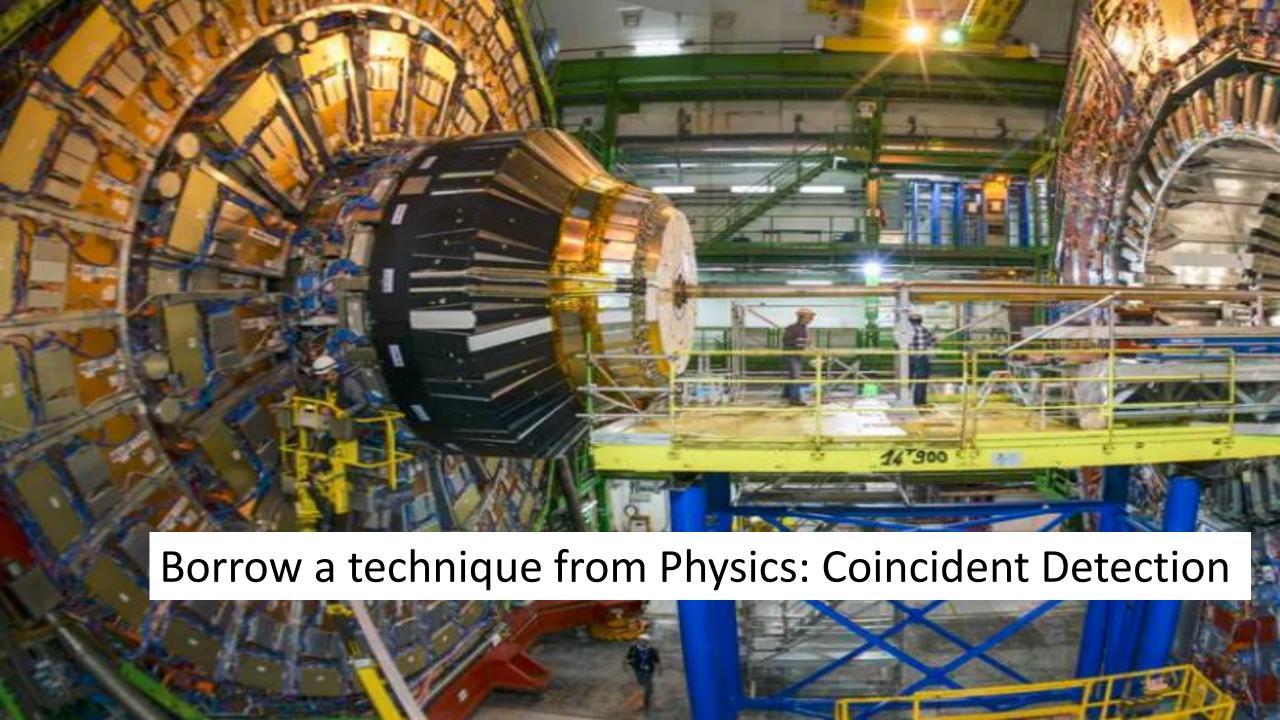


What can we do to fix this?









Recipe

Use the Junk Bond signal to SELL but only when the Stock Market is fearful

VIX Signal

Junk Bond Signal

IF the VIX Signal is large enough, use the Junk Bond signal IF NOT, ignore the

IF NOT, ignore the Junk Bond signal

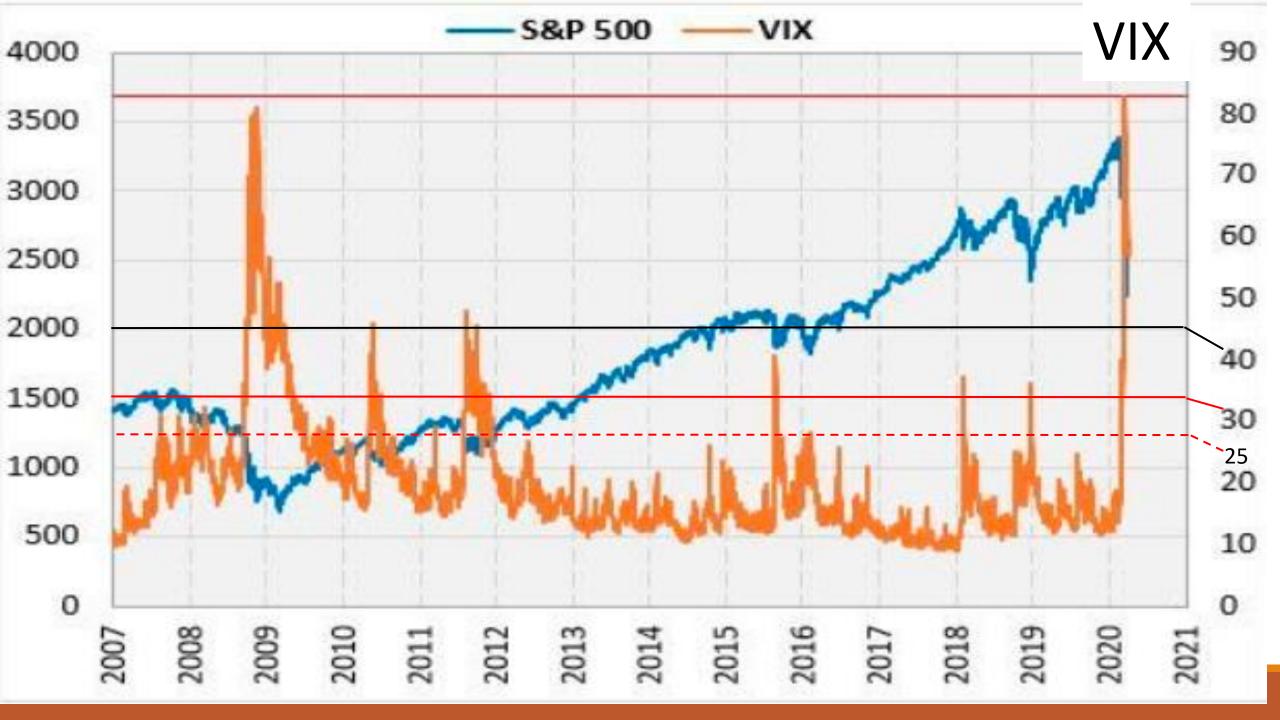
Junk Bond Signal

What is the VIX?

- Chicago Board Options Exchange's CBOE Volatility Index, a popular measure of the <u>stock market</u>'s expectation of <u>volatility</u> based on <u>S&P 500</u> index <u>options</u>
- •often referred to as the fear index or $fear\ gauge$
- the expected annualized change in the S&P 500 index over the following 30 days
 - as computed from options-based theory and current options-market data.
- current VIX didn't begin trading until 1993







Recipe

Use the Junk Bond signal to SELL but only when the Stock Market is fearful

VIX Signal

Junk Bond Signal

IF the VIX Signal is large enough, use the Junk Bond signal IF NOT, ignore the

IF NOT, ignore the Junk Bond signal

Junk Bond Signal

Search FRED

FRED® Economic Data Information Services Publications Working Papers Economists About

St. Louis Fed Home

Categories > Money, Banking, & Finance > Financial Indicators > Bond Market Indexes > BofA Merrill Lynch Total Bond Return Index Values

☆ ICE BofA US High Yield Index Total Return Index Value (ВАМІНУНОАОНУМ2ТRIV)

DOWNLOAD 🚣

Observation:

2020-12-03: **1,479.540** (+ more)

Updated: 9:06 AM CST

Units: Index.

Not Seasonally Adjusted

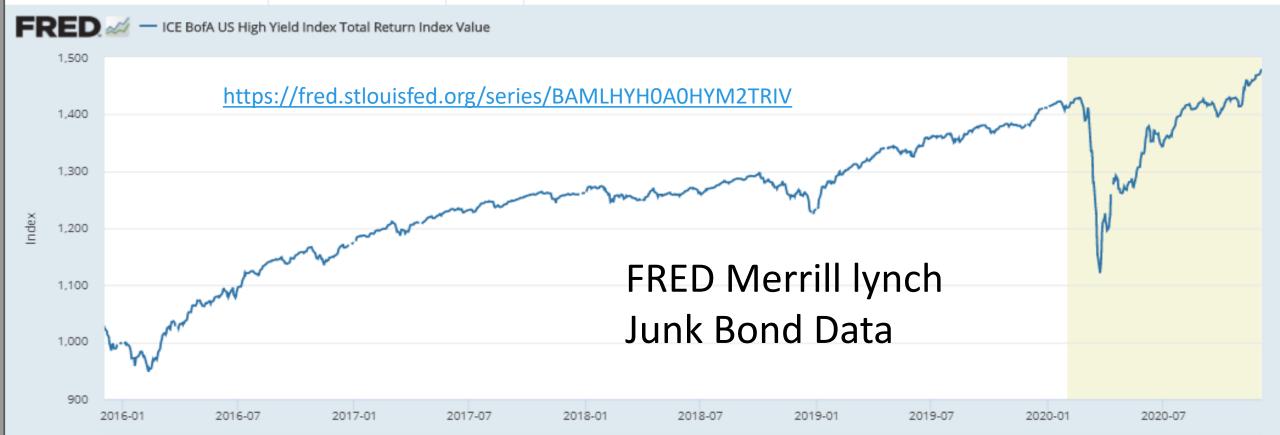
Frequency: Daily, Close

1Y | 5Y | 10Y | Max

2015-12-03

2020-12-03

EDIT GRAPH 🌣



major junk bond mutual funds

Vanguard High Yield Corporate Fund

VWEHX \$27Billion https://money.usnews.com/funds/mutual-funds/high-yield-bond/vanguard-high-yield-corporate-fund/vwehx

PGIM

PBHAX \$19 Billion

https://money.usnews.com/funds/mutual-funds/high-yield-bond/pgim-high-yield-fund/pbhax

Blackrock

BHYAX 26B https://money.usnews.com/funds/mutual-funds/high-yield-bond/blackrock-high-yield-bond-portfolio/bhyax

Pimco

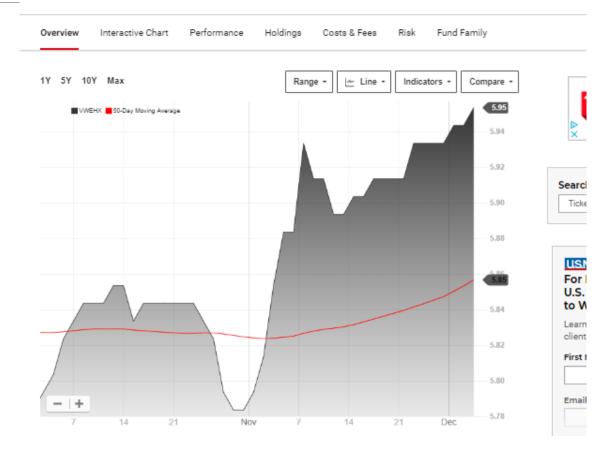
PHDAX 10B https://money.usnews.com/funds/mutual-funds/high-yield-bond/pimco-high-yield-fund/phdax

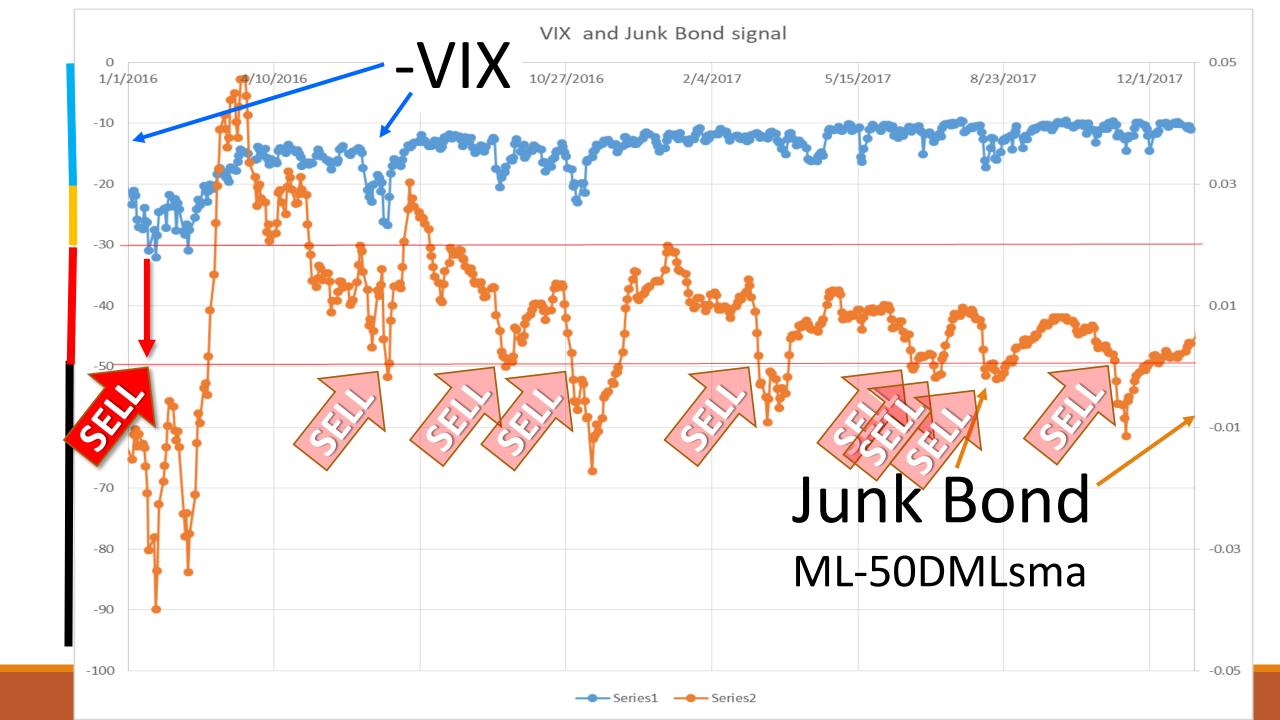
Vanguard High Yield Corporate Fund

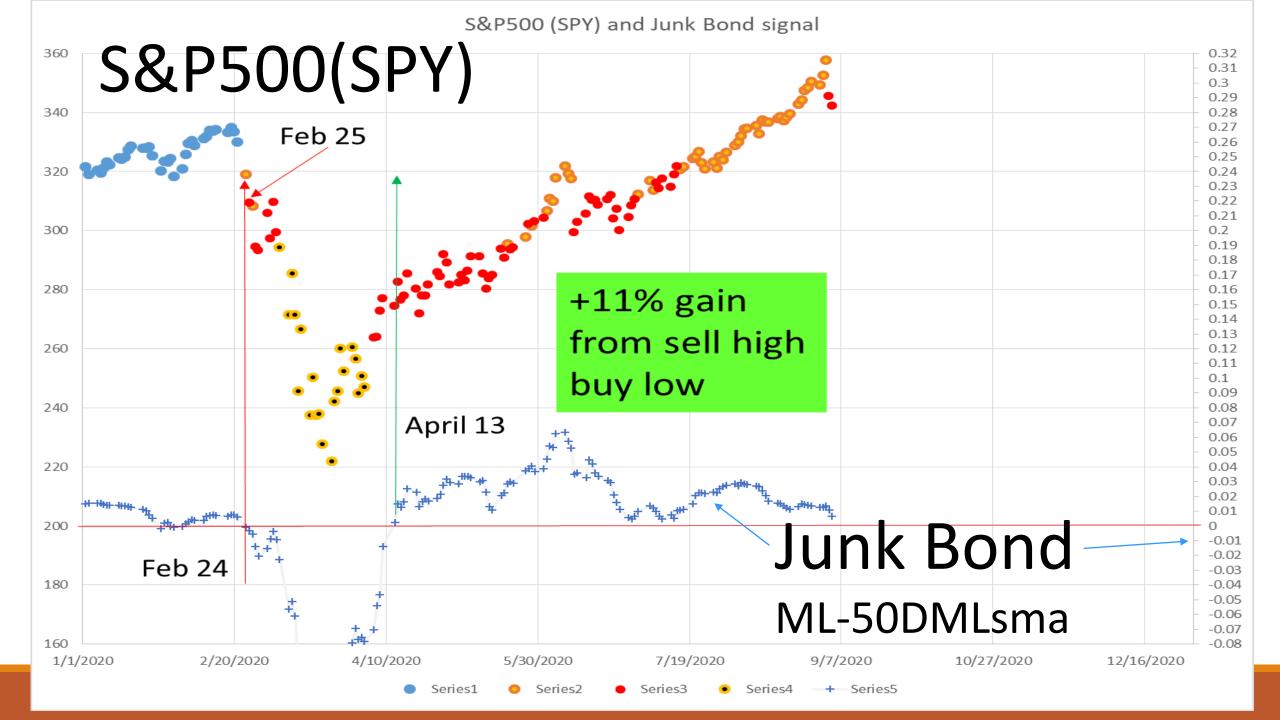
Overall Score 7.7/10

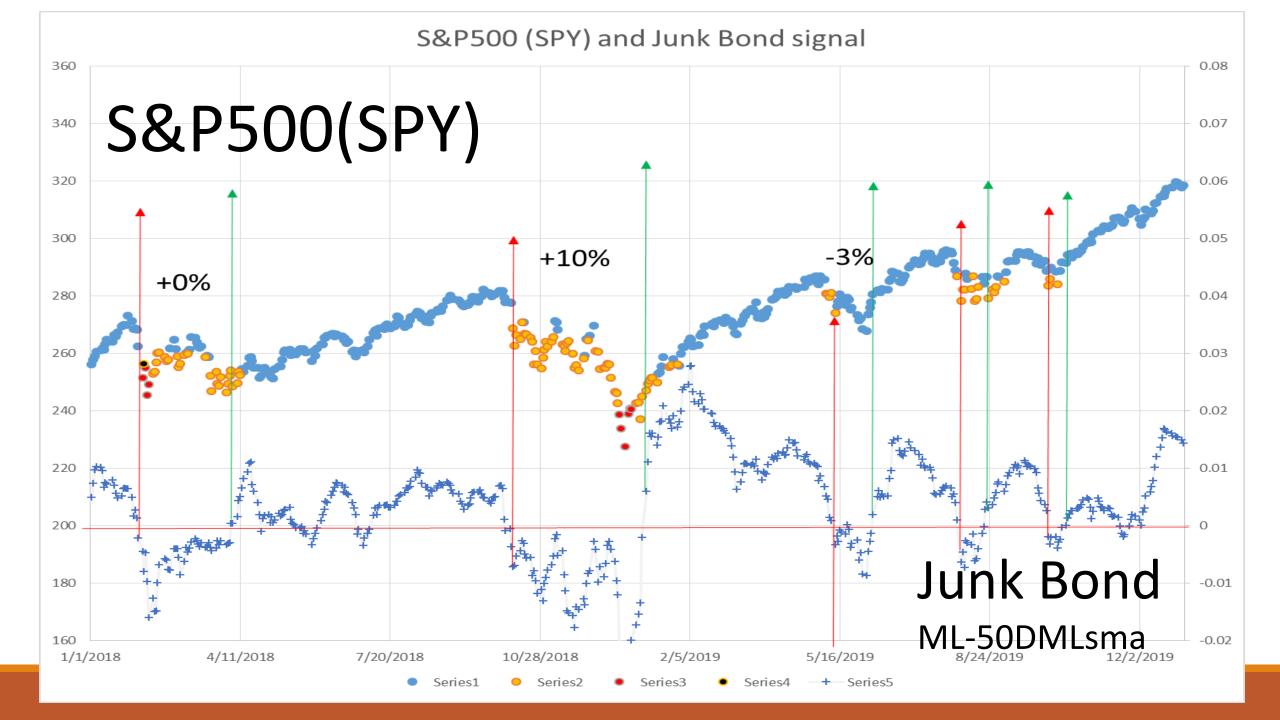
#12 in High Yield Bond

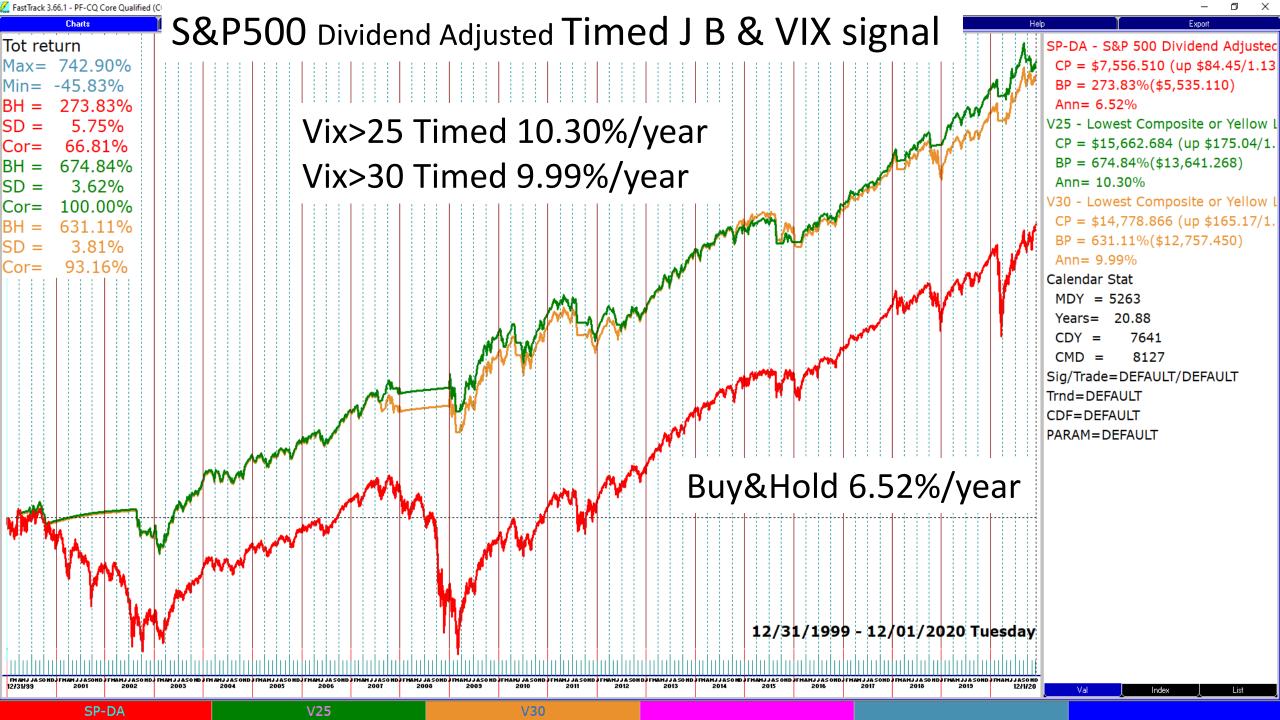
Class Inv : VWEHX ▼

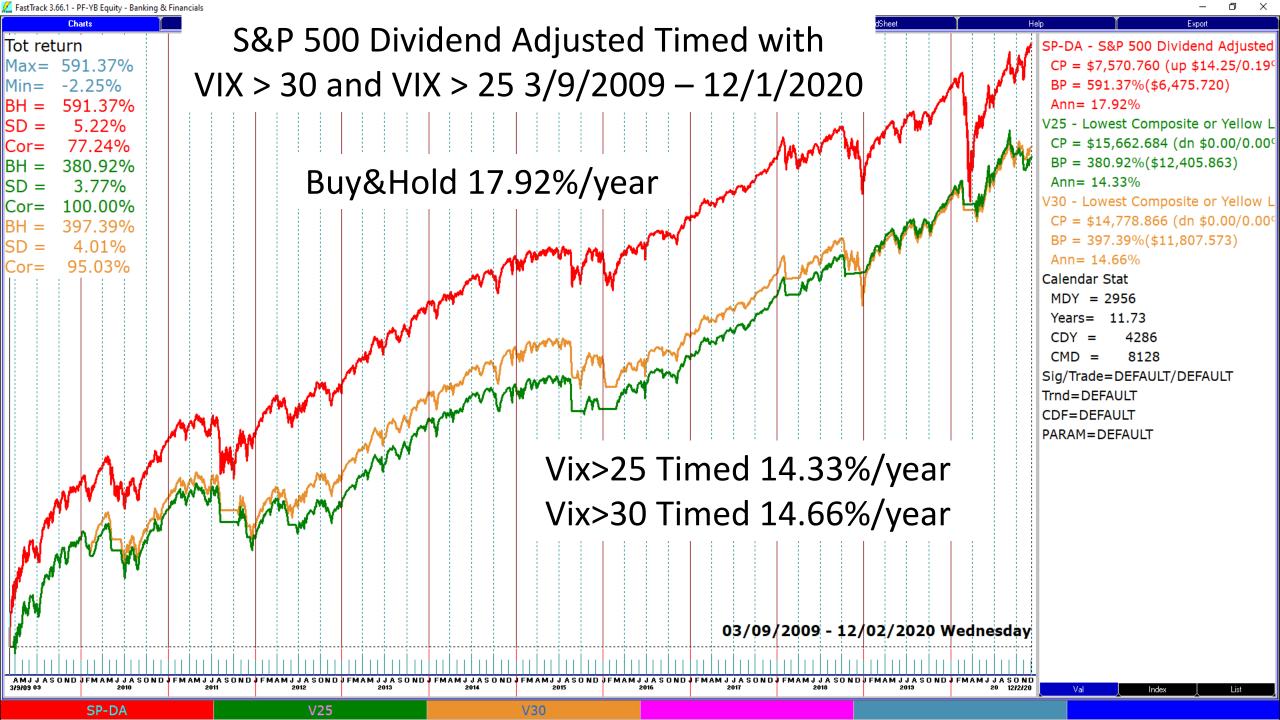












Why does this work?

The classic 200D/50D moving average approach is slow

- It can only protect from slow market declines
 - 50Days or longer timeframes

VIX JB is fast

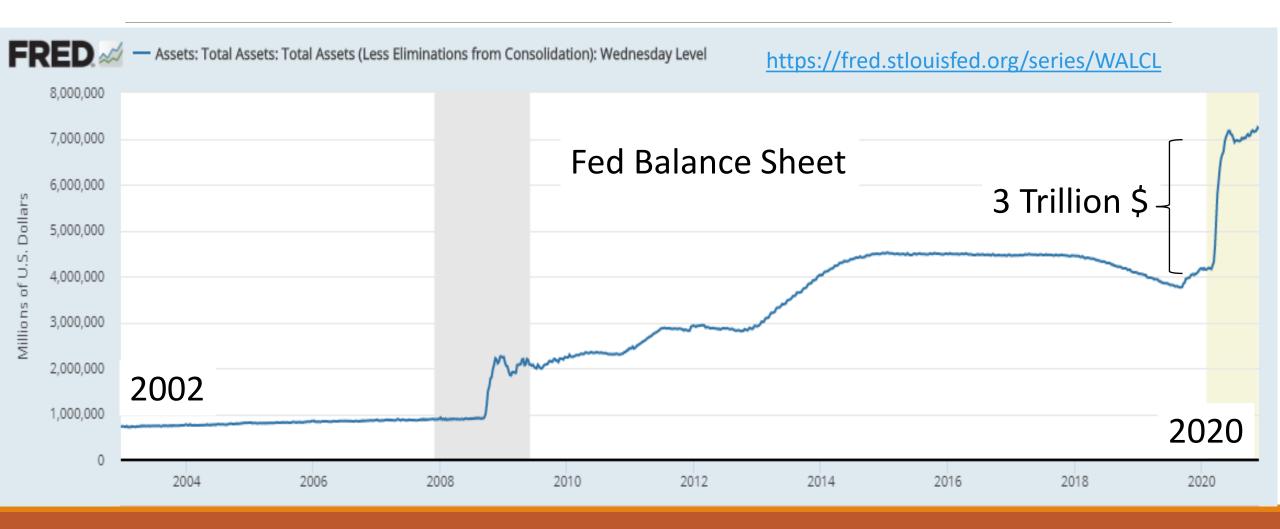
- VIX is instantaneous
- JB is available daily
 - Daily(1D) crossing the 50D
- Protects on a few days time-scale
 - JB holders need to react to move the JB signal

What are its limitations?

This approach doe not yet solve the Black Monday 1987 problem

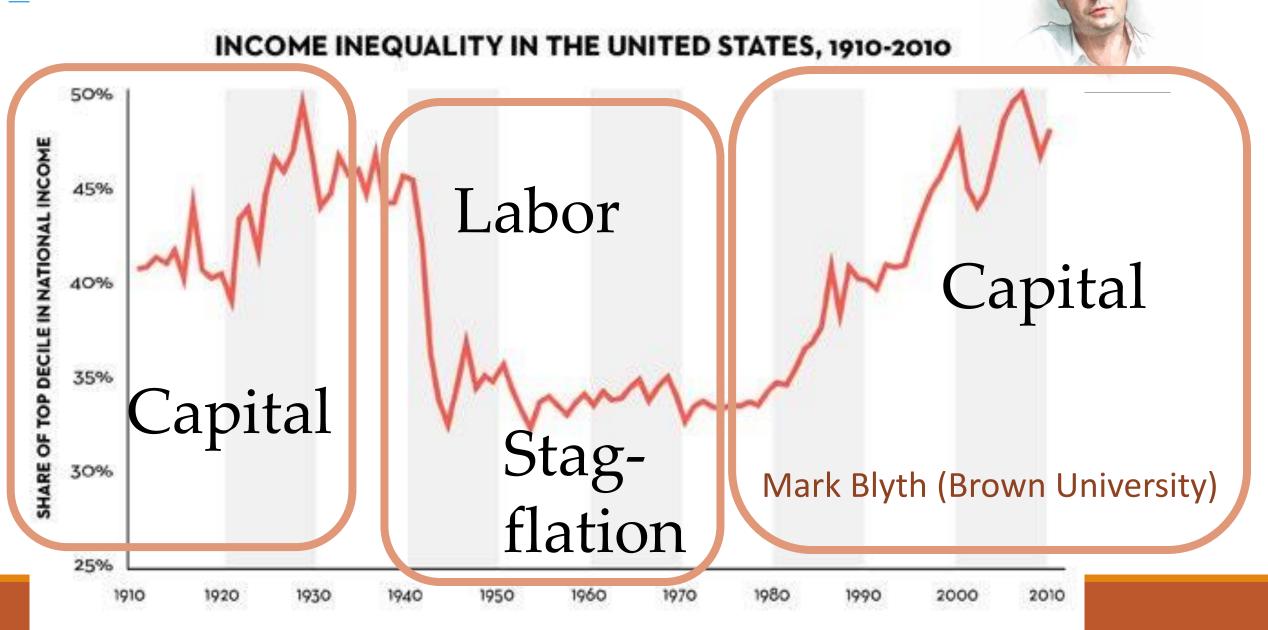
- 20% drop in one day
- Studied this problem many years ago and did not find a solution other than hold on and take the hit
- Any intra-day reaction I tested (e.g. if the market drops by X% intra-day, then sell) led to losses compare to holding through the daily loss

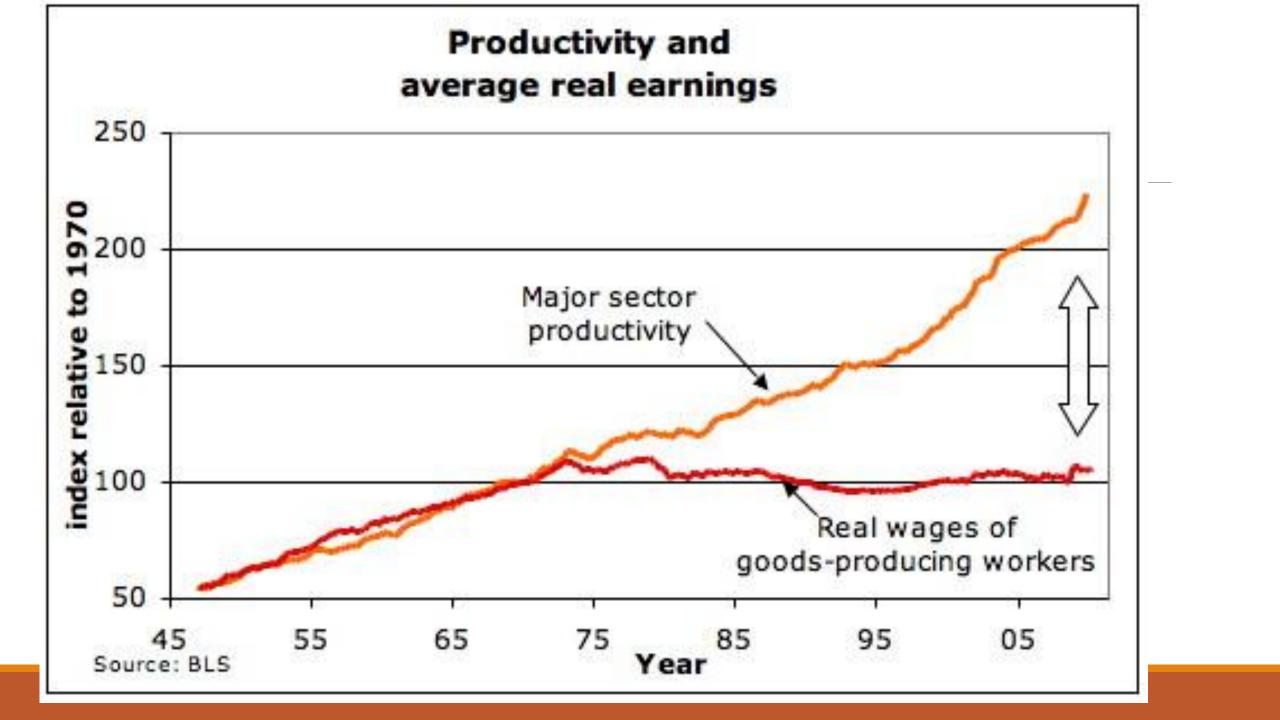
What is going on? Why is the stock market different?



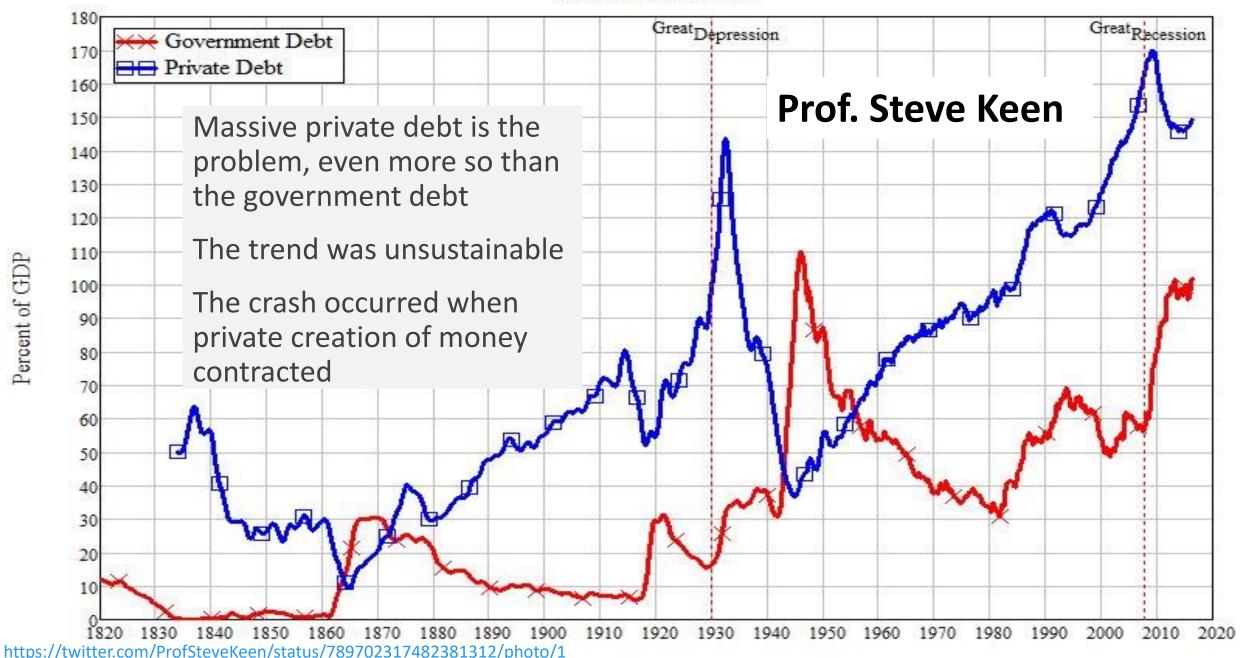
Piketty's Inequality

https://www.newyorker.com/news/john-cassidy/pikettys-inequality-story-in-six-charts

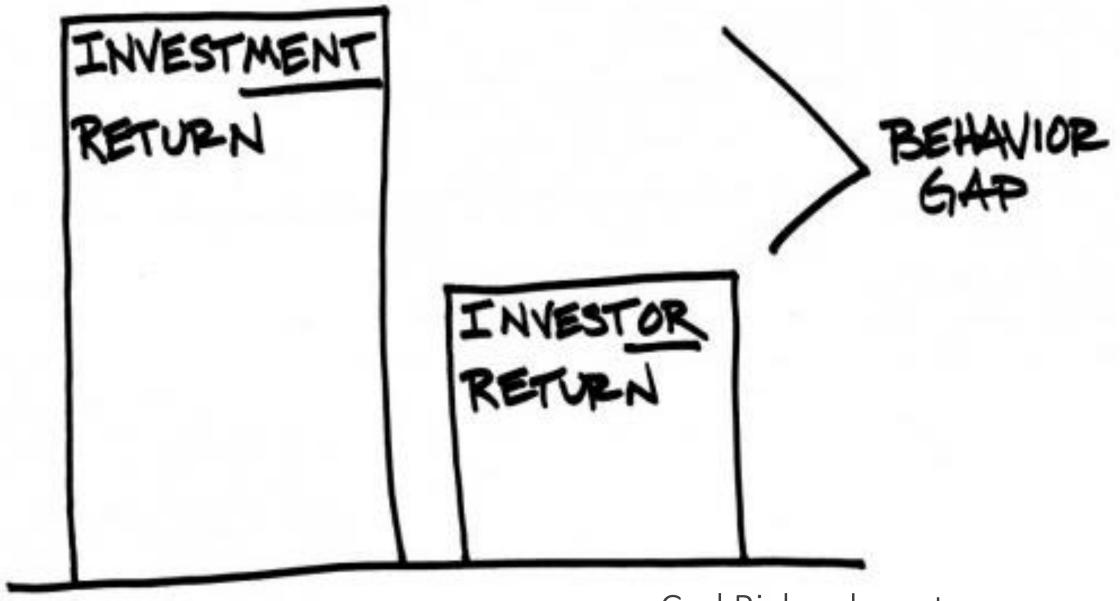




USA Debt Levels



Summary



Carl Richards cartoon

Questions?



randallbolsen@gmail.com

OVERHAULING ECONOMIC THEORY

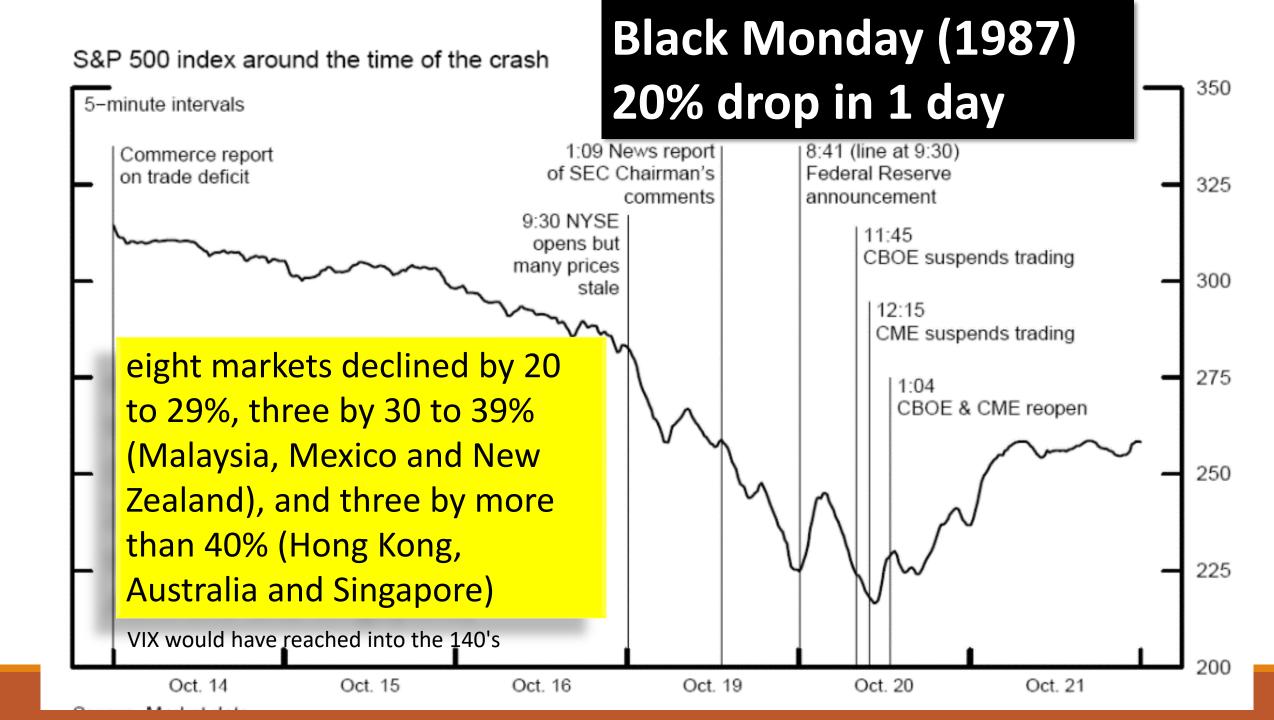
HTTP://WWW.DEBTDEFLATION.COM/BLOGS/DEBUNKING-ECONOMICS/

- Mainstream Economic Theory
 - Static (Equilibrium)
 - Does not understand that bank loans create money (e.g. home equity loans)
 - Does not predict economic cycles (booms and busts)

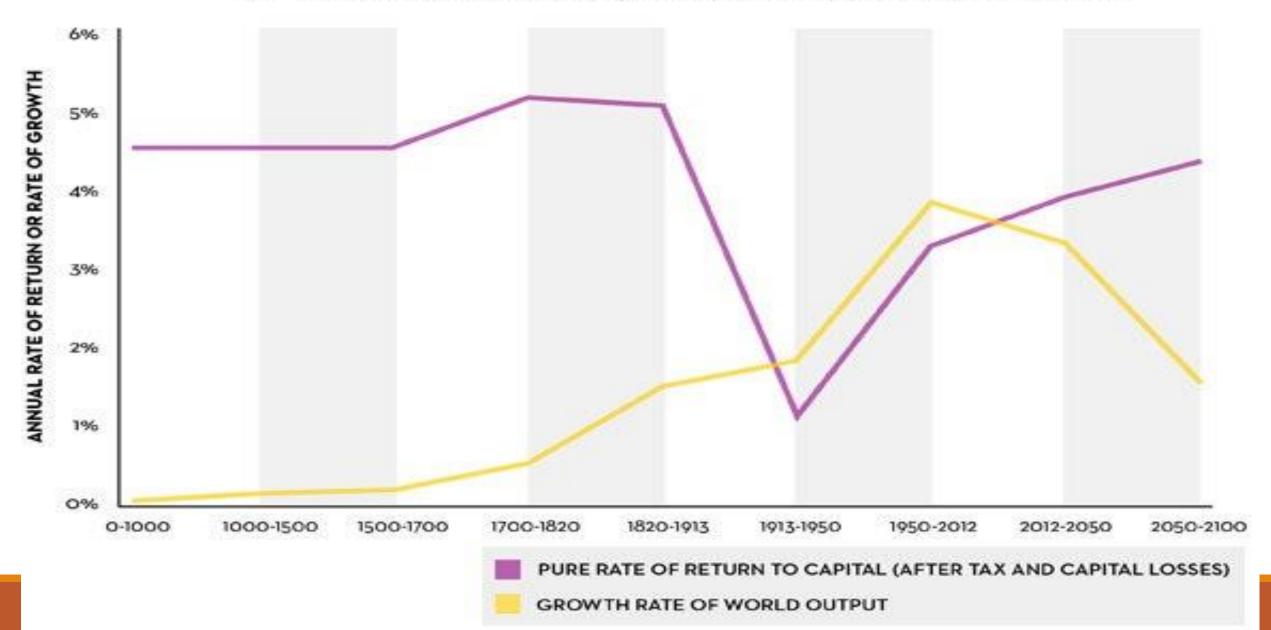
- Steve Keen's Theory
 - Dynamic
 - Does understand that banks create money
 - Predicts economic cycles



Predicted the Crash before it happened, 2005



AFTER TAX RATE OF RETURN VS. GROWTH RATE AT THE WORLD LEVEL, FROM ANTIQUITY UNTIL 2100

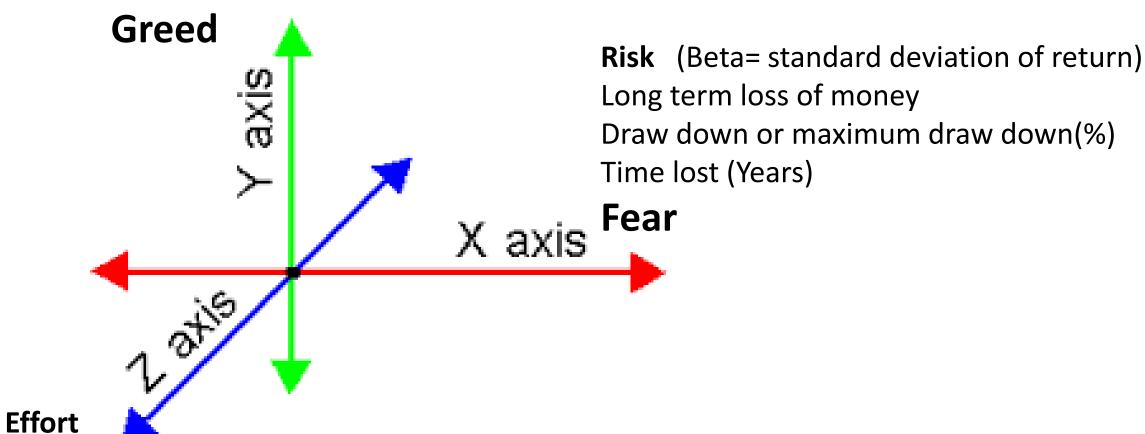


BUT THE APPROACH HAS PROBLEMSOR AT LEAST ROOM FOR IMPROVEMENT



Return (CAGR= compound annual growth rate(%/yr)) Gain

Net after Costs (advisor fees, mutual fund fees, taxes....)



Personal effort (accounting, self education....)

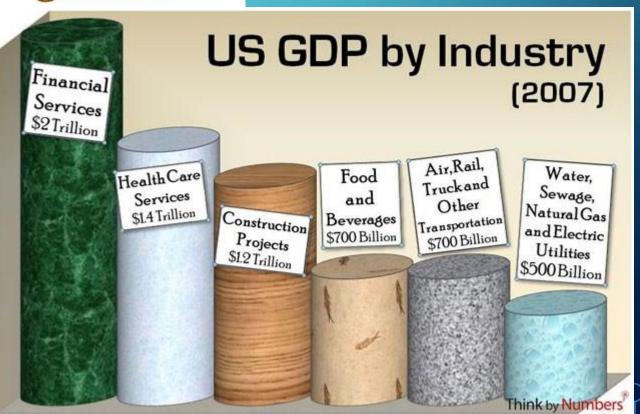
Time spent managing portfolio and communicating with others (e.g. spouse)

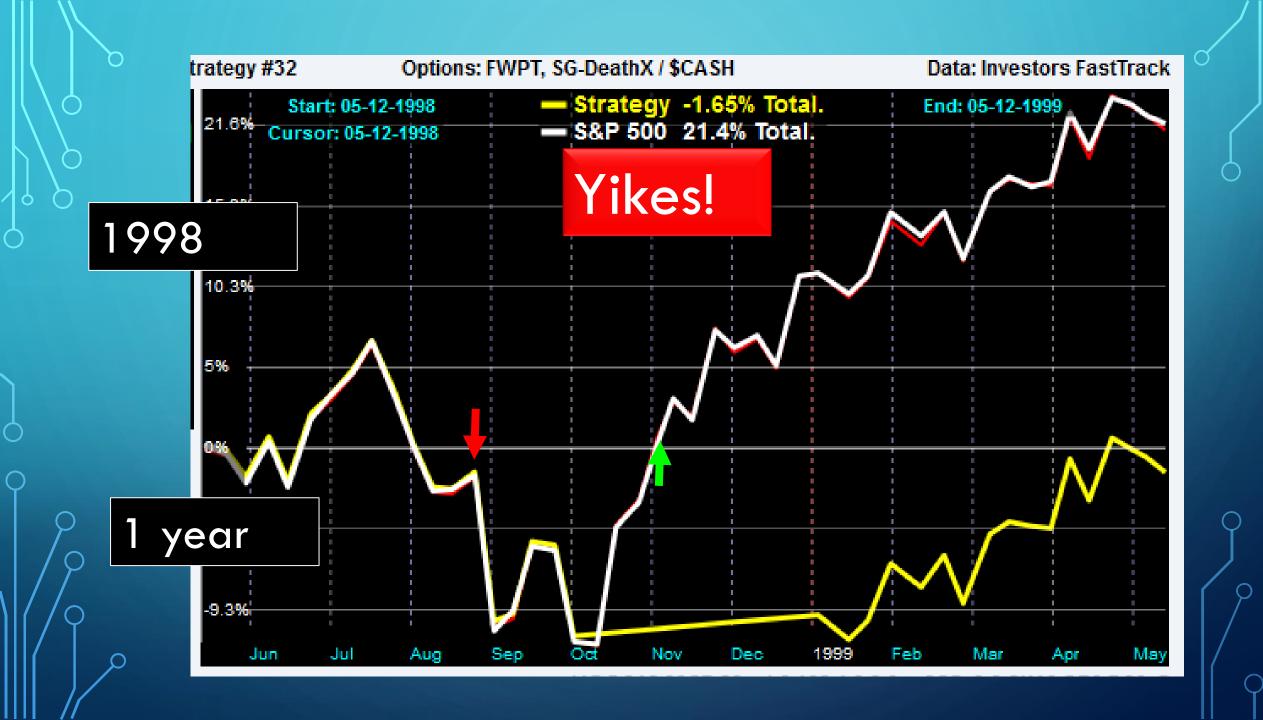
MONEY DISTORTED INFORMATION ABOUT INVESTING MAKES FIGURING OUT THE TRUTH MUCH HARDER THAN

FINANCIAL-INDUSTRY PROFITS
AS A SHARE OF U.S. BUSINESS PROFITS

PHYSICS







VIX(=40) SIGNAL ALONE DOES NOT WORK

