



# Crashes, Terrorists, and Sharks Oh, My!

Why investors fear the wrong things, and to do about it

Barry Ritholtz Chairman & CIO, Ritholtz Wealth Management

# **Today's Discussion**

What we fear – and why

How this hurts your investments

How to recognize these errors and avoid them

# How your Brain Interferes With Your Investing

### **Behavioral Economics**

#### 1. Herding, Groupthink

- 2. Optimism Bias
- 3. Confirmation Bias
- 4. Expert Opinions
- 5. Recency Effect
- 6. Endowment Effect
- 7. Hindsight Bias

#### Neuro-Finance

- 1. Anticipation vs. Rewards
- 2. Selective Perception/Retention
- 3. Words vs Images
- 4. Pattern Recognition
- 5. Data vs Narrative
- 6. Cognitive Dissonance
- 7. Species of Dopamine Addicts

#### **Risk Aversion**

- 1. Misunderstanding risk
- 2. What you fear
- 3. Black Swans
- 4. What will kill you
- 5. Biggest financial fears
- 6. What hurts portfolios

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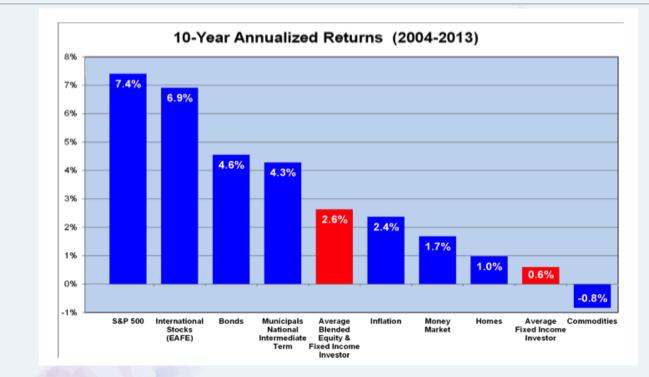
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# A Brief Introduction to Understanding Risk





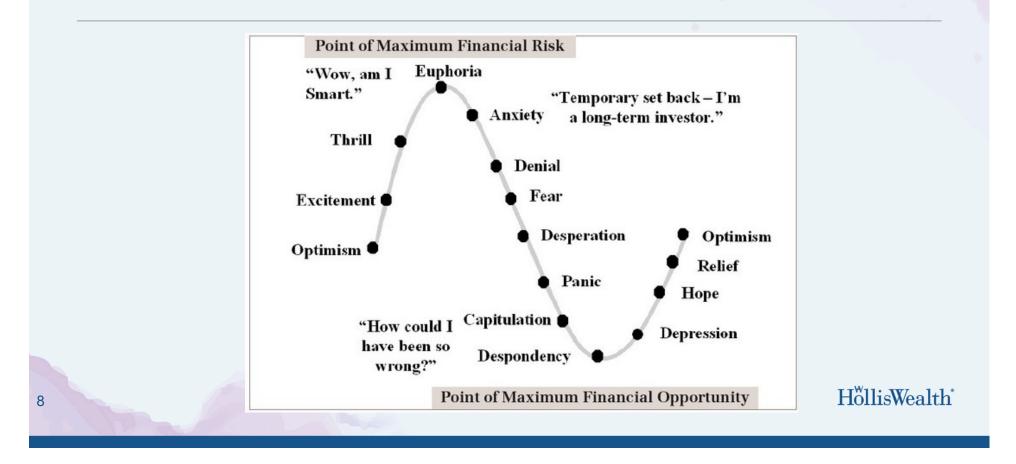
# **Investor Performance (10 Years)**



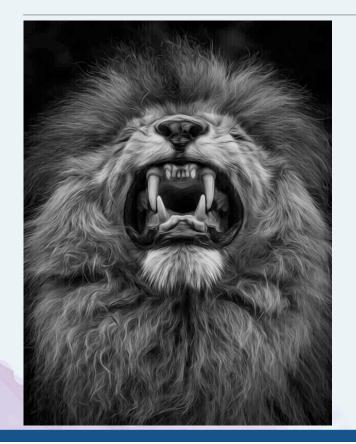
Source: DALBAR

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# **Sentiment Cycle**



# **The Truth**



10 People a year are killed by sharks worldwide

Other large predators:

Lions? (100) Elephants (100) Hippos (500) Crocodiles (1,000) Snakes (50,000)

Dogs (25,000) almost all due to rabies.

## More Dangerous than Sharks: Selfies !

#### Sharks vs. selfies

So far in 2015, more people around the world have died as a result of selfie mishaps than have died from shark attacks.



 An American woman fell to her death while taking a selfie with her boyfriend on a cliff in South Africa.
 Two Russian men were killed while taking a selfie with a hand grenade.

3. Three Indian students were killed by an oncoming train while taking selfies on train tracks.

4. A Romanian teenager was electrocuted when she was taking a selfie on top of a train and touched a high-voltage wire.

5. A Russian teen was also electrocuted after touching live wires while taking a selfie near railway tracks.

6. A Russian woman shot herself in the head while trying to take a selfie with a gun.

7. A woman in Moscow City died falling from a bridge, where she was trying to take a selfie.

8. A teenager in Houston, Texas, fatally shot himself while taking a selfie with a gun.

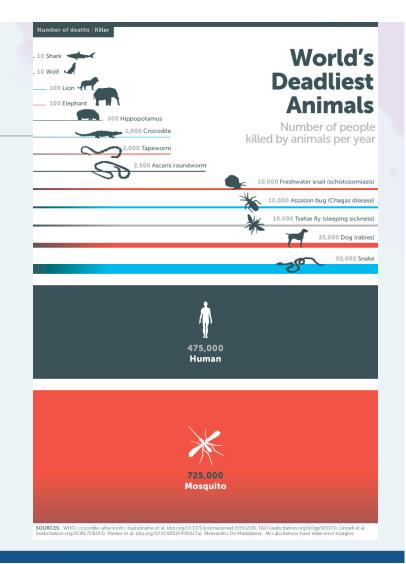
9. A Japanese tourist died falling down the stairs while taking a selfie at the Taj Mahal.

# **The Deadliest Animal in the World**

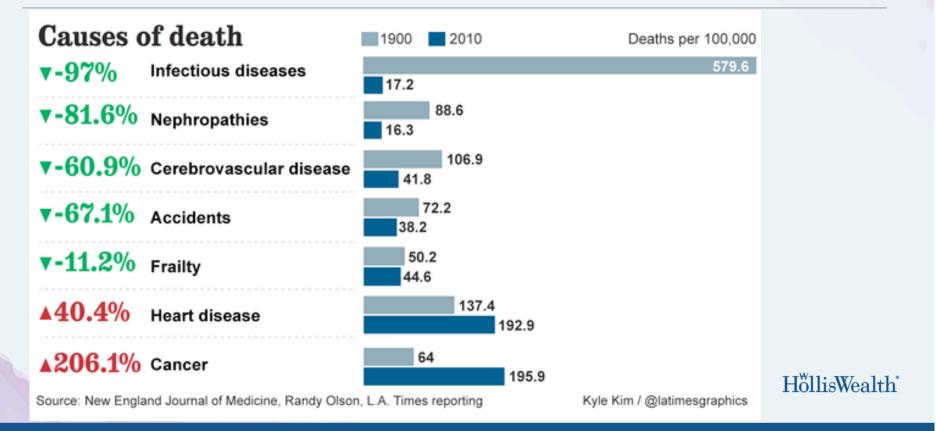


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Mosquitoes are the deadliest creature on earth; (Man only comes in second)



# What Killed Americans in 1900 vs. 2010

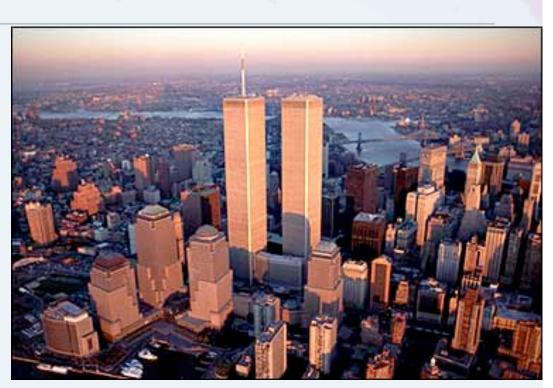


# **Risk of Terrorism**

2010: U.S. noncombatant fatalities from terrorism worldwide = 25

2011: Terror deaths = 8

People who die after being struck by lightning = 29



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# **Your Actual Risk**

You are ...

35,079 times more likely to die of heart disease

33,842 times more likely to die of cancer

Table B. Deaths and death rates for 2011 and age-adjusted death rates and percentage changes in age-adjusted rates from 2010 to 2011 for the 15 leading causes of death in 2011: United States, final 2010 and preliminary 2011

[Data are based on a continuous file of records received from the states. Rates are per 100,000 population; age-adjusted rates per 100,000 U.S. standard population based on the year 2000 standard; see Technical Notes. For explanation of asterisks (") preceding cause-of-death codes, see Technical Notes. Figures for 2011 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

				Age-adjusted death rate		
Rank <sup>1</sup>	Cause of death (based on the <i>International Classification of Diseases, Tenth Revision,</i> 2008 Edition, 2009)	Number	Death rate	2011	2010	Percent change
	All causes	2,512,873	806.5	740.6	747.0	-0.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Diseases of heart       (I00-I09,I11,I13,I20-I51)         Malignant neoplasms       (C00-C97)         Chronic lower respiratory diseases       (J40-J47)         Cerebrovascular diseases       (I60-I69)         Accidents (unintentional injuries)       (V01-X59,Y85-Y86)^{2.3}         Alzheimer's disease       (G30)         Diabetes mellitus       (E10-E14)         Influenza and pneumonia       (J09-J18) <sup>4</sup> Nephritis, nephrotic syndrome and nephrosis.       (N00-N07,N17-N19,N25-N27) <sup>5</sup> Intertional self-harm (suicide)       ("U03,X60-X84,Y87.0) <sup>2</sup> Septicemia       (A40-A41)         Chronic liver disease and cirrhosis.       (K70,K73-K74)         Essential hypertension and hypertensive renal disease       (I10,I12,I15)         Parkinson's disease       (G20-G21) <sup>6</sup>	596,339 575,313 143,382 128,931 122,777 84,691 73,282 53,667 45,731 38,285 35,539 33,539 27,477 23,107	191.4 184.6 46.0 41.4 39.4 27.2 23.5 17.2 14.7 12.3 11.4 10.8 8.8 7.4	173.7 168.6 42.7 37.9 38.0 24.6 21.5 15.7 13.4 12.0 10.5 9.7 8.0 7.0	179.1 172.8 42.2 39.1 38.0 25.1 20.8 15.1 15.3 12.1 10.6 9.4 8.0 6.8	-3.0 -2.4 1.2 -3.1 0.0 -2.0 3.4 4.0 -12.4 -0.8 -0.9 3.2 0.0 2.9
15	Pneumonitis due to solids and liquids	18,090 512,723	5.8 164.6	5.3	5.1	3.9
0.0.0	An error excession in the rest of the rest	012,720	101.0			

... than a terror attack.

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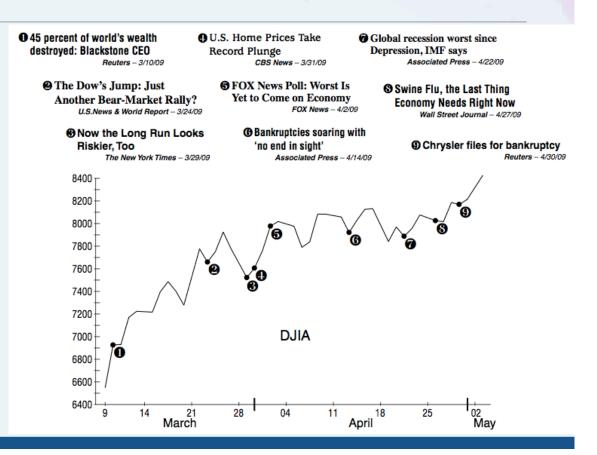
# What are YOU afraid of?

# **Market Crashes**

Hyper-Inflation

Collapse of the Dollar

Looking foolish...



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# **1987 Crash is Imminent!**

#### Marc Faber:

# 2014 crash will be worse than 1987's

-CNBC, 4/10/2014

# STOCKS PLUNGE 508 POINTS, A DROP OF 22.6%; 604 MILLION VOLUME NEARLY DOUBLES RECORD

U.S. Ships Shell Iran Installation In Gulf Reprisal

**Offshore Target Termed** a Base for Gunboats

By STEVEN V. ROBERTS Southern The New York T WASHINGTON, Oct. 11 - United

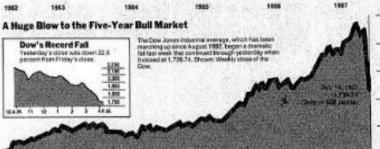
States naval forces struck back at Iran today for astacks on American regis-tered vessels and other Persian Gulf shipping by studing two connected offshare platforms that American efficials said were a base for frantian gan-

A few hours later, a naval commando detachment bounded a third platform five roles away and destroyed radar and communications equipment, Pen tagen officials said. No American casuakies were p

parted in the actions, which accurred 128 rolles cast of Babrain at about 2 P.M. (7 A.M., Eastern daylight time). A 20-Milwate Warning

> force took pasts to avoid killing Intstans, giving the crew on the first two platfarms a 28-minute warning before four destroyers, succeed about there relies away, began the shelling.

delegate sold "several invocent perpie" had been billed in the sitack, but the pack answer, rawny economics tass are strained to be and not be continued to be co



#### Does 1987 Equal 1929?

By ERIC GELMAN

As stack prices scared this year, a Meons, director of the Conter for Inter choras of possistiate warned that 1987 matienal Business Cycle Research at was looking every siles 1920, when a Columbia University.

The quick answer, many ecumanistic tions are strained, with protoclimitit

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#### WORLDWIDE IMPACT

Frenzied Trading Raises Fears of Recession --Tape 2 Hours Late

By LAWRENCE J. De MARIA

Stock market prices planged in a tumultanus wave of spling yestenday siving Wall Street its worst day in No. tory and rolaing fears of a receiption. The Dow Jones industrial average, considered a benchmark of the marker's health, plurameted a record 586 points, to 1,785.76, based as preliminary calculations. That 22.6 percent de cline was the warst since World War 1 and far groater than the 13.82 percent. drop on Oct. 28, 1928, that along with the next day's 11.7 percent decline

preceded the Great Depression Since hitting a record 1,722-63 on Aug. 26, the Dow has falles almost 1,000 points, or 36 percent, pating the blue-chip indicator 157.6 points below the level of which it marind the year. With Friday's plungs of 100.20 points, the Dow has fallen more than 36 percent in the last two sessions.

#### **Unprecedented Trading**

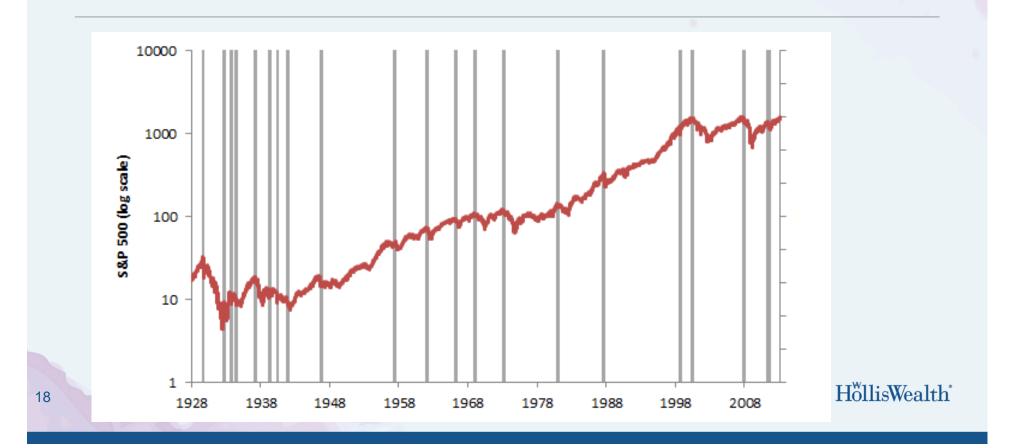
Vesterday's freesled trading on the nation's stack exchanges lifted volume to anheard of levels. On the New York, Stock Exchange, an estimated 6043 ralling shares charged hands, altitost double the provinus record of 318.5 mil-

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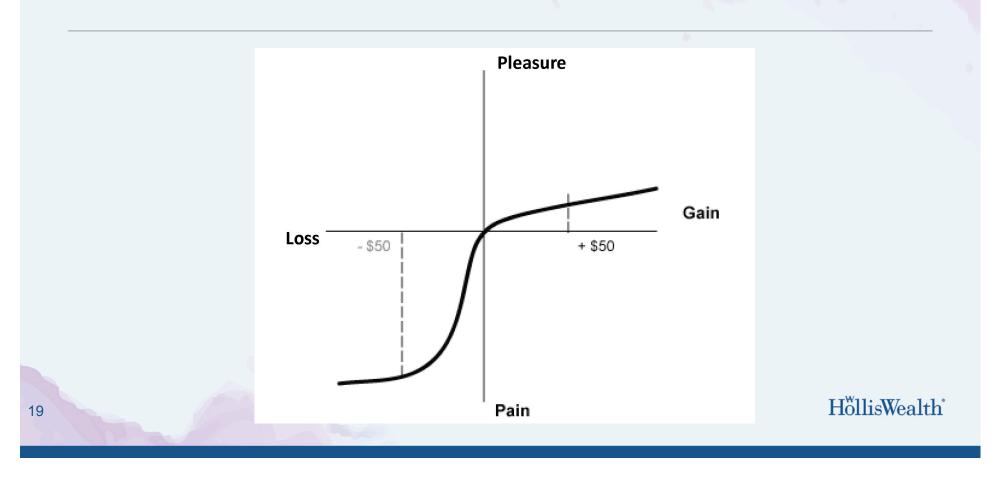
# **Catastrophizing Markets**

Faber on Hyperinflation: "Not A Matter Of If But When" –Business Insider, 9/23/2010
'The Bear Market Is Starting' Marc Faber –CNBC, August 3, 2011
Faber: The Dollar's Value In The Future Will Be Zero –Business Insider, 4/18/ 2011
Marc Faber: We Could Experience A 1987-Style Crash This Year –Business Insider, 5/10/2012
Marc Faber: Look out! A 1987-style crash is coming. –CNBC, August 8, 2013
2014 crash will be worse than 1987's: Marc Faber –CNBC, April 10, 2014
Dr. Doom calls bubble, adding to gloomy calls –CNBC, Nov 2, 2015
My prediction? In 2016, Faber will predict crash ... HöllisWealth'

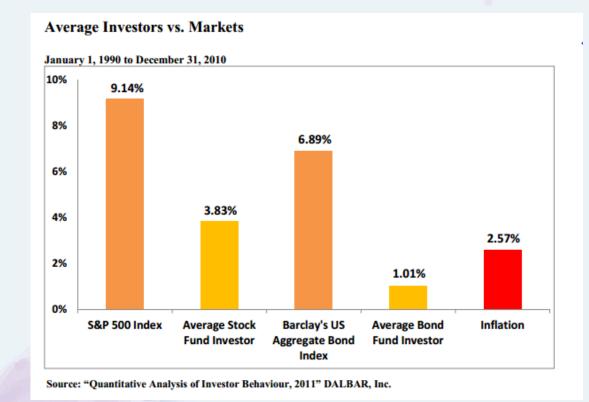




# **Pleasure Vs. Pain**



# **Investor Performance (20 Years)**



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# Why Investors Lose Money

- 1. Lack of Discipline
- 2. Excess Trading
- 3. High Turnover = High Taxes
- 4. Unnecessary Trading Costs/Fees
- 5. Lack of Diversification
- 6. Over Confidence
- 7. Deviating from Strategy ("style drift")
- 8. Relying on Forecasts or Predictions
- 9. Listening to Pundits
- **10. Emotional Decision making**

# 2003: Politics and Asset Management Don't Mix !

# These are poorly-designed tax cuts: Stay Out of the Markets!

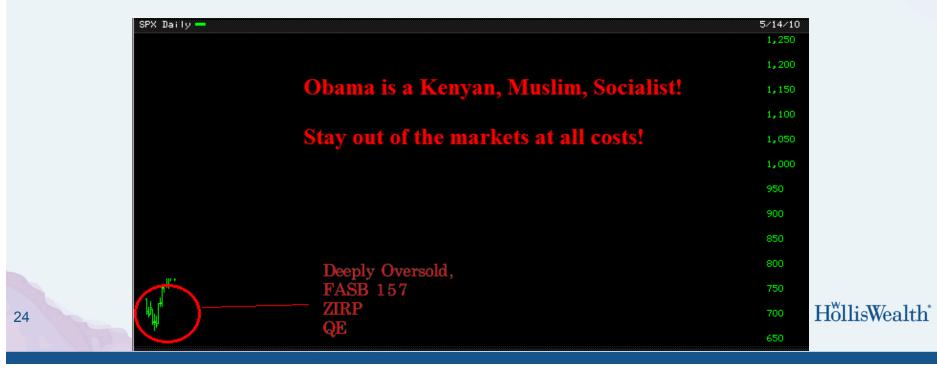
SPX Weekly -	11/30/07	
	1,600	
	1,550	
	1,500	
Oh, No!	1,450	
	1,400	
	1,350	
The Bush Tax Cuts are	1,300	
going to be terrible for	1,250	
	1,200	
the stock market!	1,150	
	1,100	
	1,050	
	1,000	
	950	
	900	
2003 Tax Cuts	850	
22 2003 Tax Cuts	<sup>800</sup> Hölli	isWealth
	750	Strouth

# 2003: Politics and Asset Management Don't Mix

#### 2003 Tax Cuts > \$1 Trillion How did that political trade – up over 90% over 4 years – work out for you . . .? 11/30/07 SPX Weekly 💳 1,600 1,550 1,500 1,450 1,400 1.350 1.300 1,250 1,200 1,150 1.100 1,050 1,000 950 HöllisWealth 2003 Tax Cuts 23

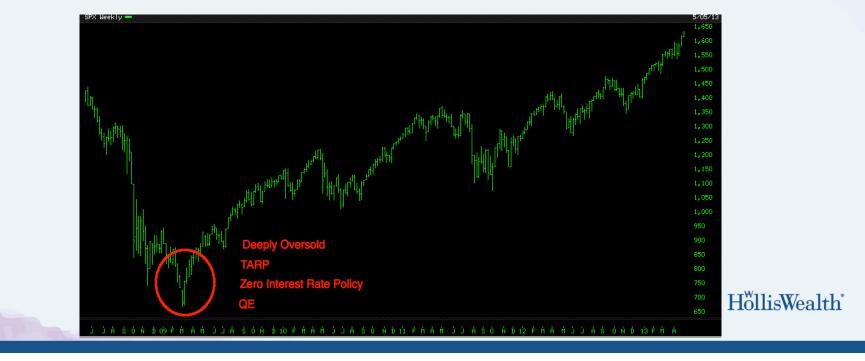
# **2009: Political Investing**

# Obama is a socialist! Stay Out of Markets!



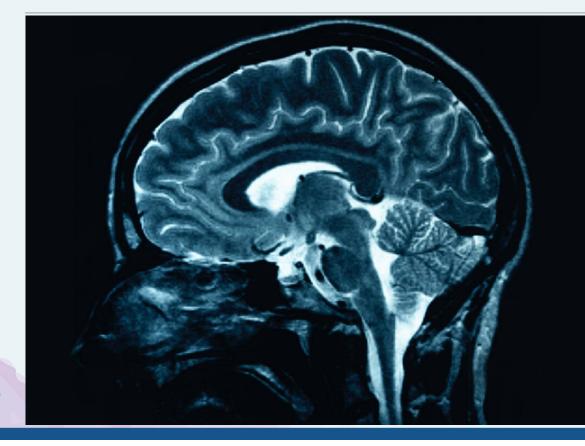
# 2009: Politics and Asset Management Don't Mix

# FASB 157, ZIRP, QE +VERY Oversold Markets Political traders missed a generational rally – Up 250% over 72 months



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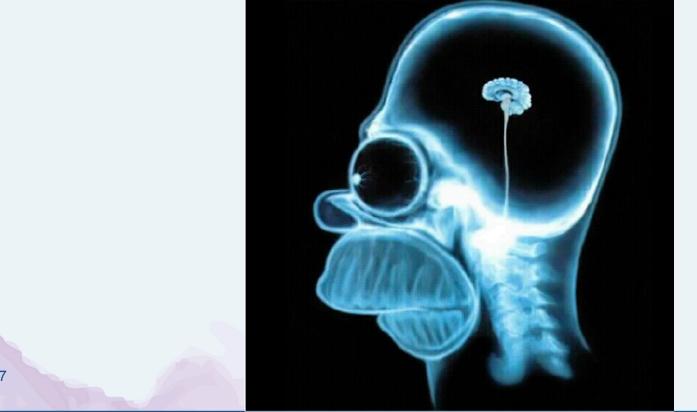
# **This Is Your Brain**



Your brain weighs 3 pounds, and is 100,000 years old. It is a"*dynamic*, *opportunistic, self-organizing system of systems*." MRIs have revealed to Neurologists what our brains looks like when making decisions. We can observe it 1) in real time; 2) under actual conditions, and 3) in reaction to financial risk/reward stimuli.

Once we begin trading stocks, however, our brains begin to undergo subtle physical change that we can actually see in the MRIs of Traders . . .

# **This Is Your Brain On Stocks**



# The War Between You and Your Brain

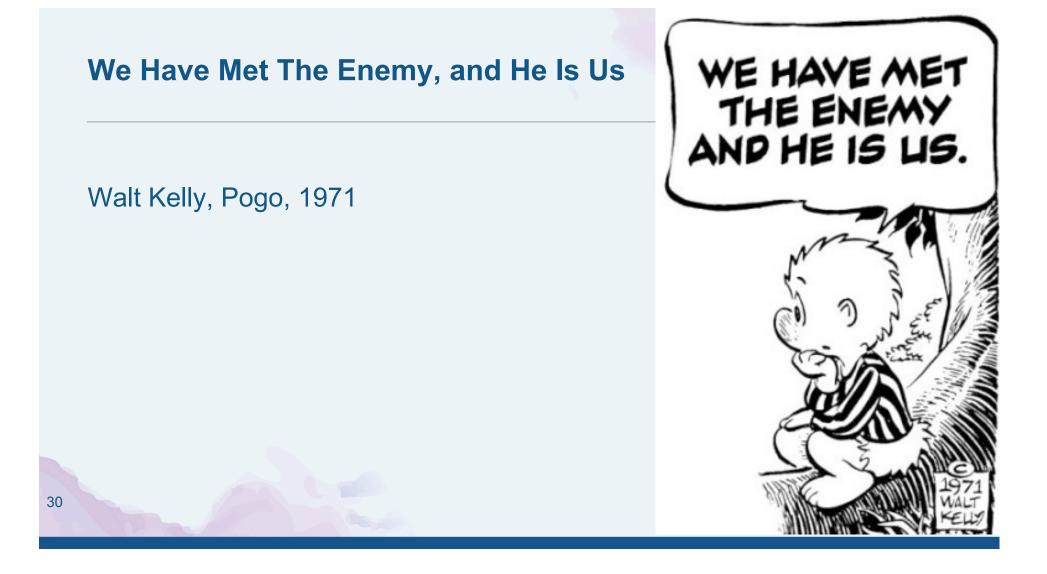
# Now I understand these cognitive issues, what can I do about them?



# **How Investors Can Avoid Losing Money**

Be Disciplined
 Don't Trade -- Rebalance!
 Keep Tax Costs Low
 Watch Costs/Fees
 Be Diversified
 Be Humble
 Stay with you Strategy (avoid "style drift")
 Don't Make or Rely on Forecasts
 Ignore the Pundits

**10. Make Rational, Logical Decisions** 



# **Barry L. Ritholtz**

*My favorite books on these subjects can be found at* <u>http://www.ritholtz.com/blog/behavioral-books</u>

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