#### IPPFA Midwest Pension Conference Lake Geneva, Wisconsin

# Charts & Graphs! What the heck do they mean?

10:00 AM to 10:50 AM Thursday, October 3, 2013

#### **Gary Karshna**

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## Types of Charts Used by Investment Professionals

**Vertical Bar Charts** 

**Horizontal Bar Charts** 

**Scatter Graphs** 

**Pie Charts** 

**Line Graphs** 

**Filled Line Graphs** 





#### **Institutions Generating Financial Charts and Graphs**

Morningstar

**Bloomberg** 

**Chicago Tribune** 

**Wall Street Journal** 

**BusinessWeek Magazine** Financial Times

Barron's

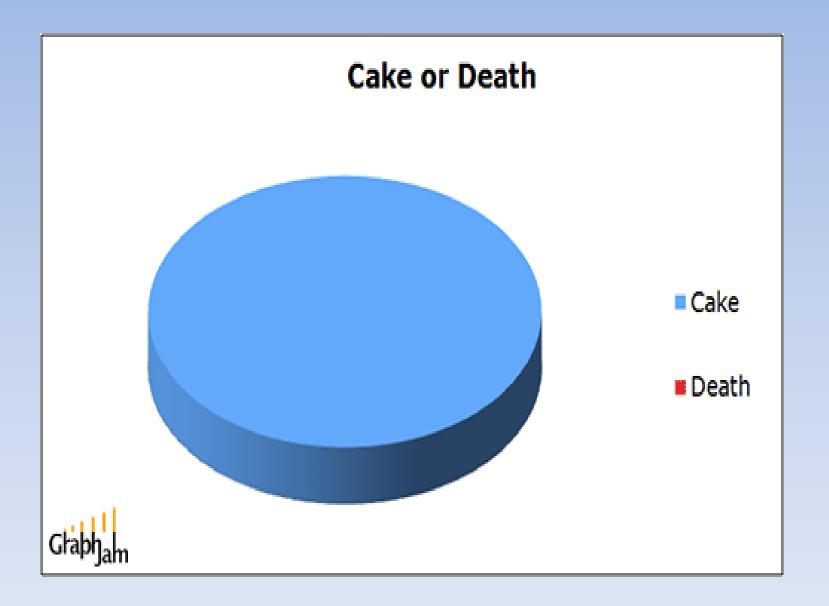
The Economist Magazine

**Brokerage Firms** 

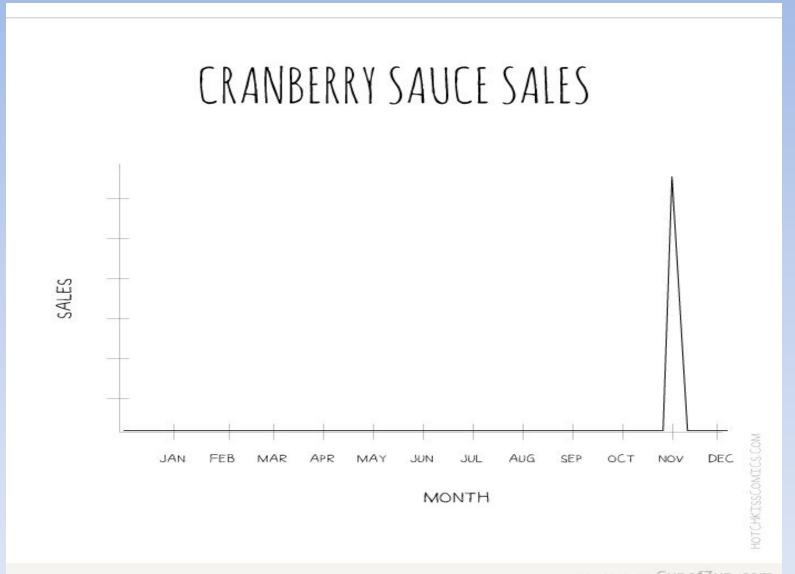
**Research Organizations** 

**Your Investment Manager or Consultant** 

#### Some Charts are Easy to Read & Understand

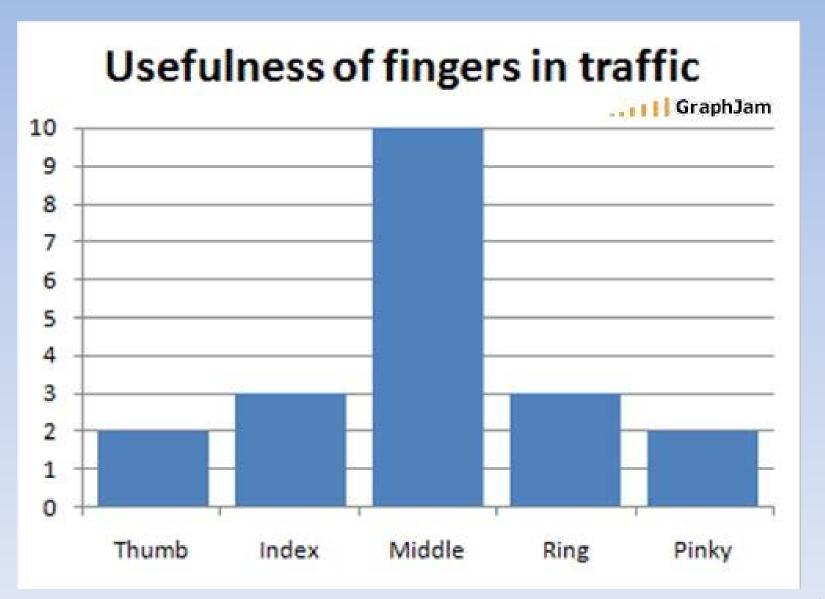


#### Some Slides Need No Explanation!!!!

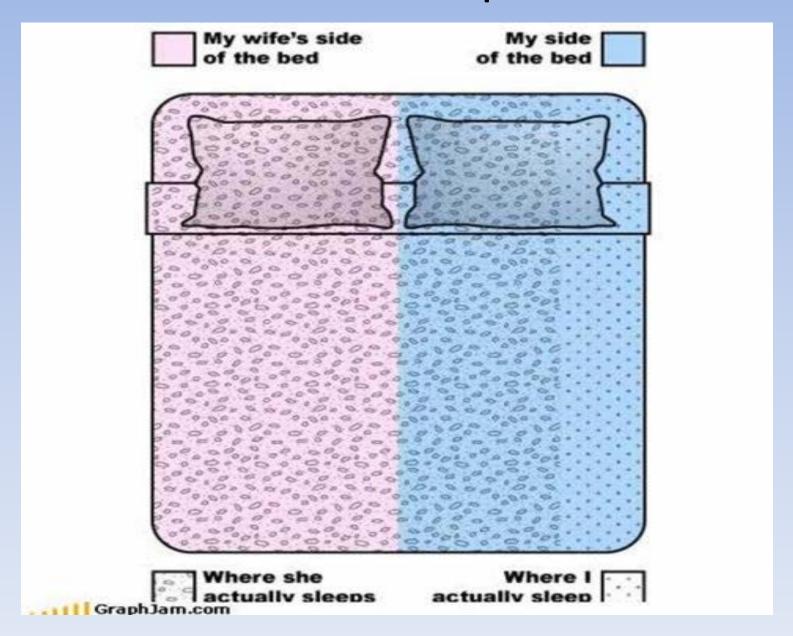




#### Or This One!!!



#### Scatter Graph

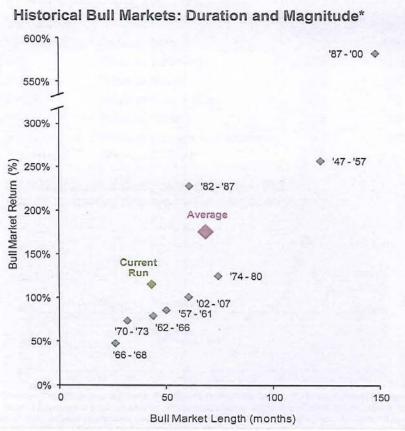


#### But ..... Some Do!

MARKET INSIGHTS

Bull and Bear Markets

Equities



Market Peak	Market Low	Bear Market Return	Length of Decline	Bull Run	Length of Run	Yrs. to Reach Old Peak
5/29/46	5/19/47	-28.6%	12	257.6%	122	3.1 yrs.
7/15/57	10/22/57	-20.7%	3	86.4%	50	0.9 yrs.
12/12/61	6/26/62	-28.0%	6	79.8%	44	1.2 yrs.
2/9/66	10/7/66	-22.2%	8	48.0%	26	0.6 yrs.
11/29/68	5/26/70	-36.1%	18	74.2%	31	1.8 yrs.
1/5/73	10/3/74	-48.4%	21	125.6%	74	5.8 yrs.
11/28/80	8/12/82	-27.1%	20	228.8%	60	0.2 yrs.
8/25/87	12/4/87	-33.5%	3	582.1%	148	1.6 yrs.
3/24/00	10/9/02	-49.1%	31	101.5%	60	4.6 yrs.
10/9/07	3/9/09	-56.8%	17	112.9%	43*	
Average:		-35.0%	14 mo's	176.0%	68 mo's	2.2 yrs.

Source: Standard & Poor's, FactSet, J.P. Morgan Asset Management.

Chart is for illustrative purposes only. Past performance does not guarantee future results. A bear market is defined as a peak-to-trough decline in the S&P 500 Index (price only) of 20% or more. The bull run data reflect the market expansion from the bear market low to the subsequent market peak. All returns are S&P 500 Index returns and do not include dividends. \*Current bull run from 3/9/09 through 9/28/12.



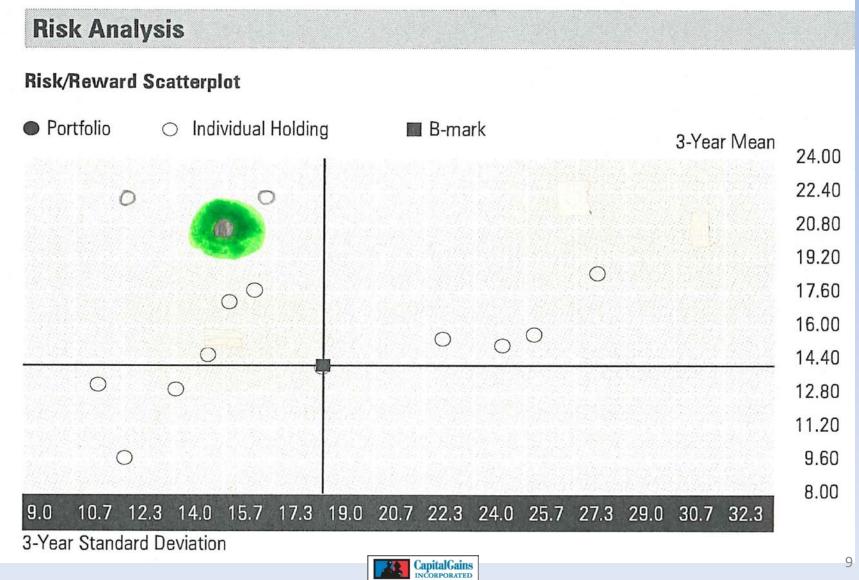
Data are as of 9/30/12.



#### Morningstar – Good Equity Portfolio



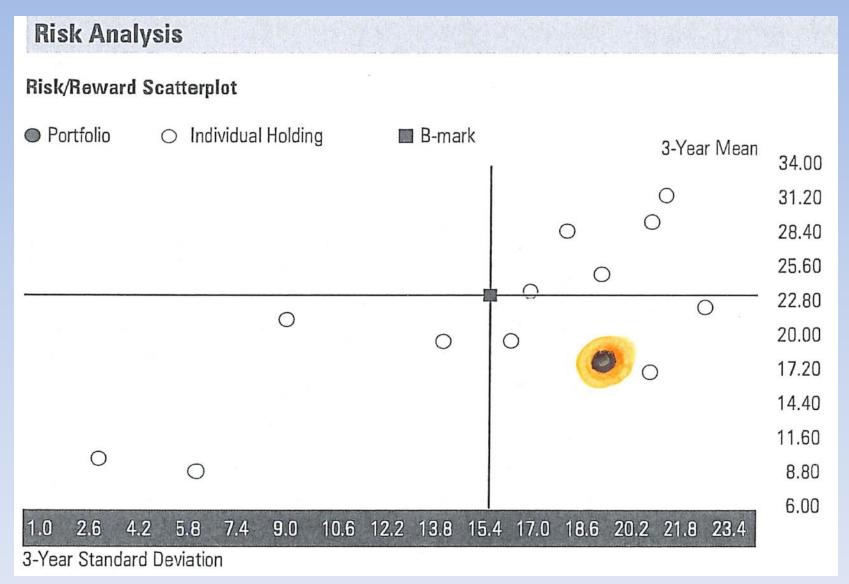
**Northwest Quadrant** 



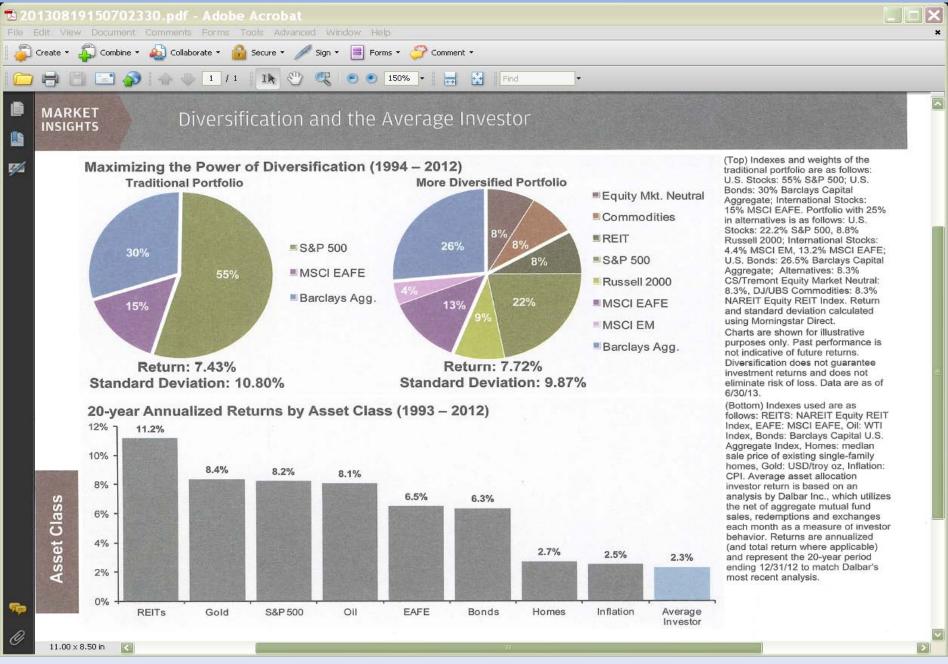
#### Morningstar – Bad Equity Portfolio



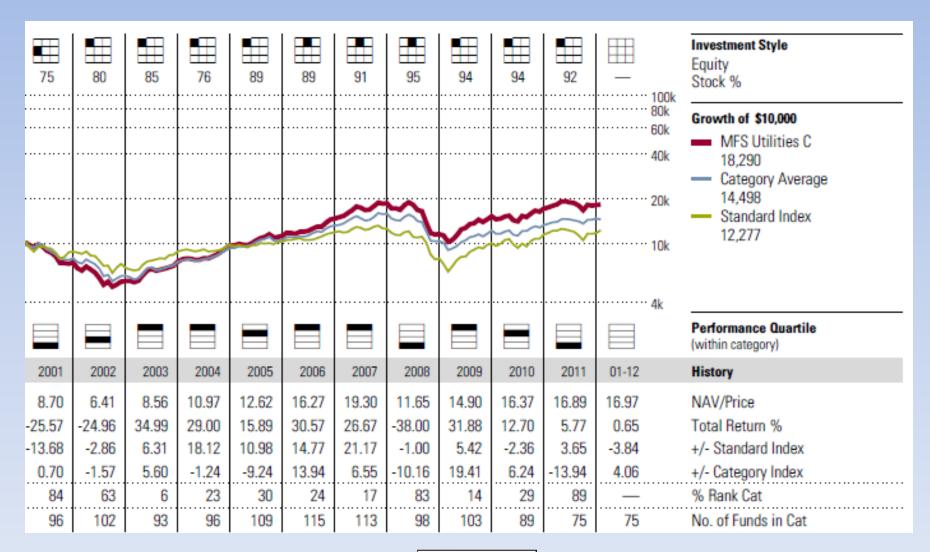
Southeast Quadrant







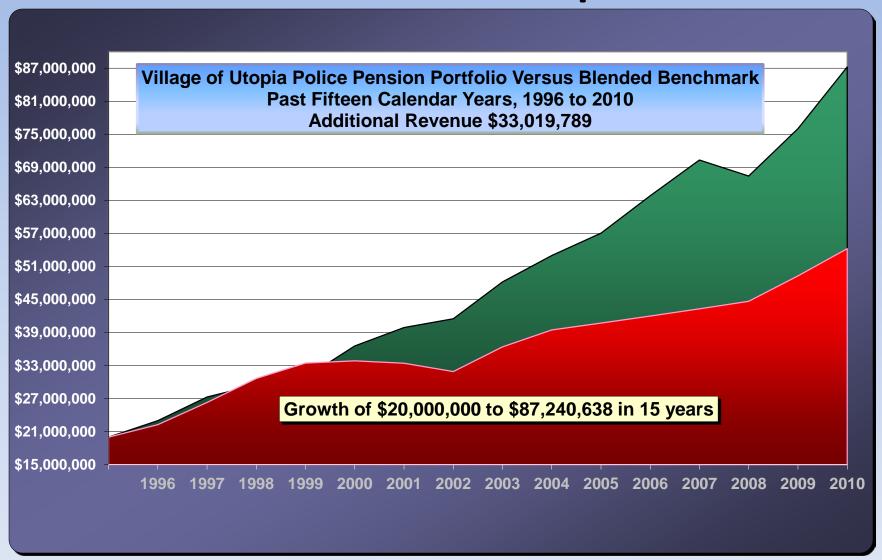
#### MFS Utility Mutual Fund vs S&P 500



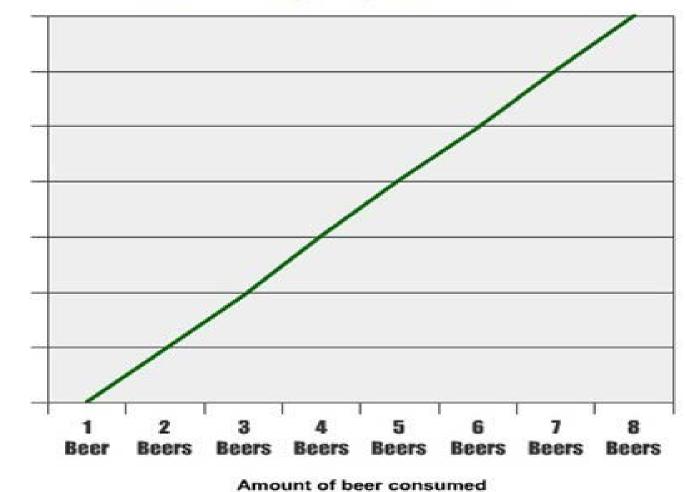




#### **Growth of \$20 million portfolio**

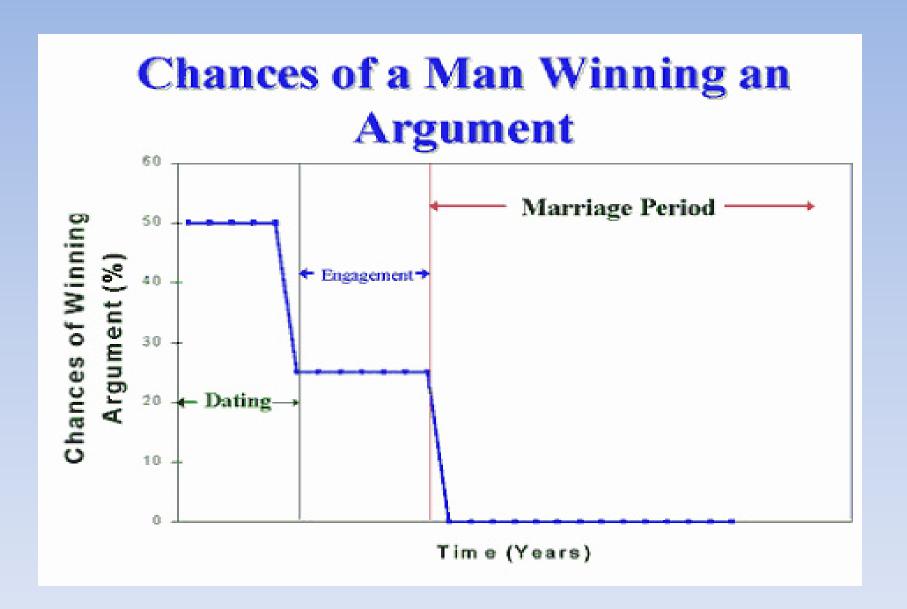


#### Pool Playing Skills



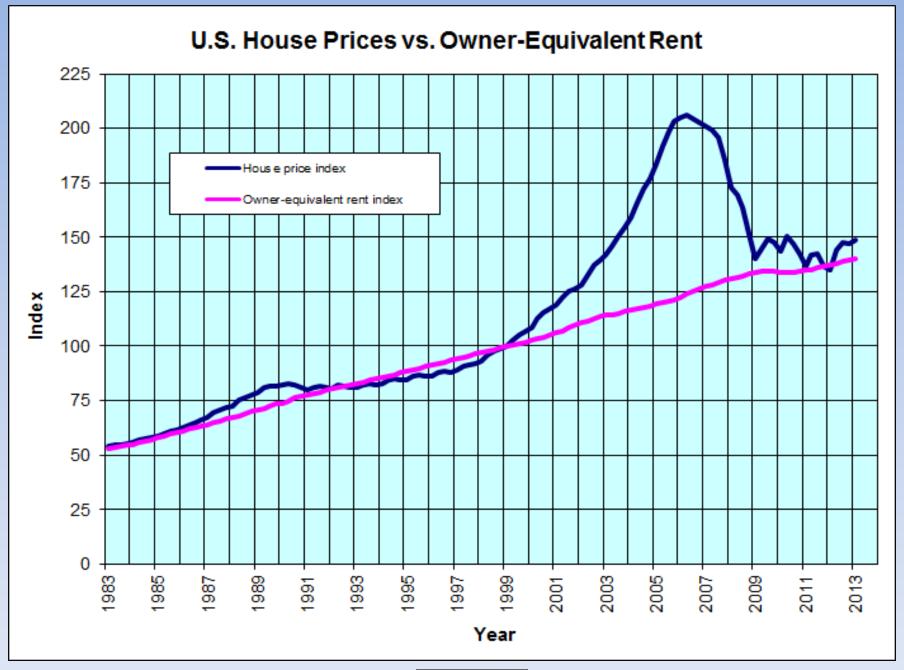
.... GraphJam.com

Amount of Skill

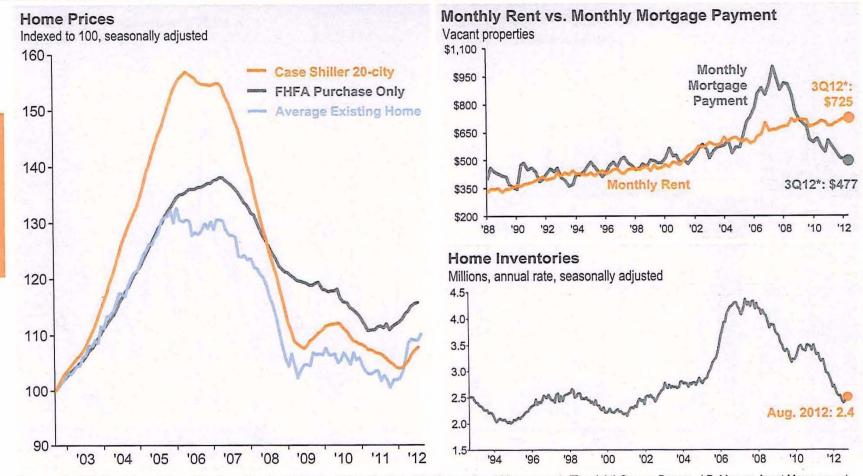


#### **Vertical Bar Chart of Spousal Issues**









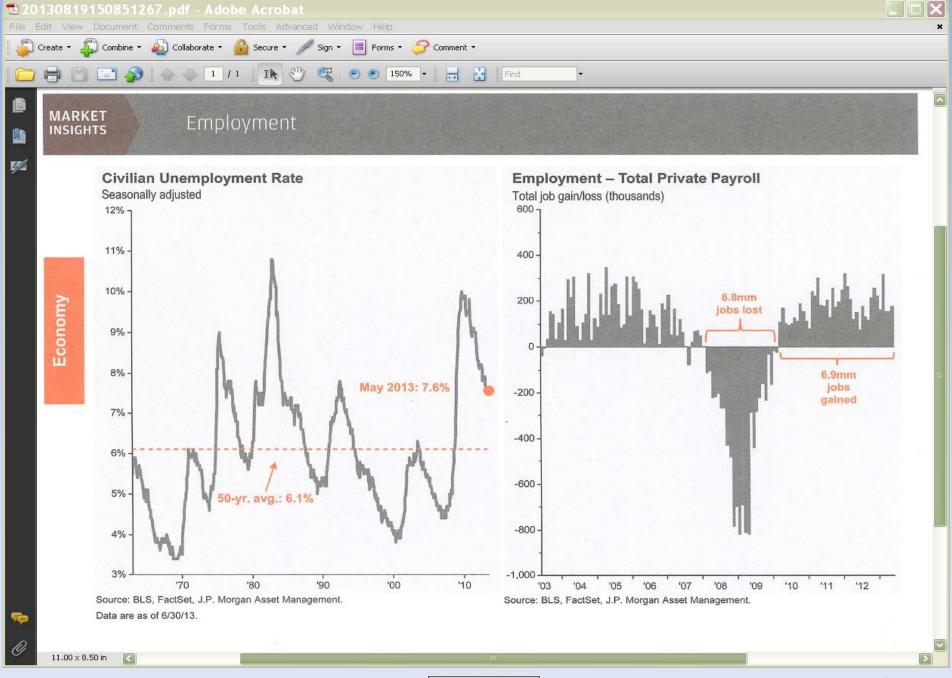
Sources: (Left) National Association of Realtors, Standard & Poor's, FHFA, FactSet, J.P. Morgan Asset Management. (Top right) Census Bureau, J.P. Morgan Asset Management. Monthly mortgage payment assumes a 20% down payment at prevailing 30-year fixed-rate mortgage rates; analysis based on median asking rent and median mortgage payment based on asking price. (Bottom right) Census Bureau, National Association of Realtors, J.P. Morgan Asset Management. \*3Q12 rent and mortgage

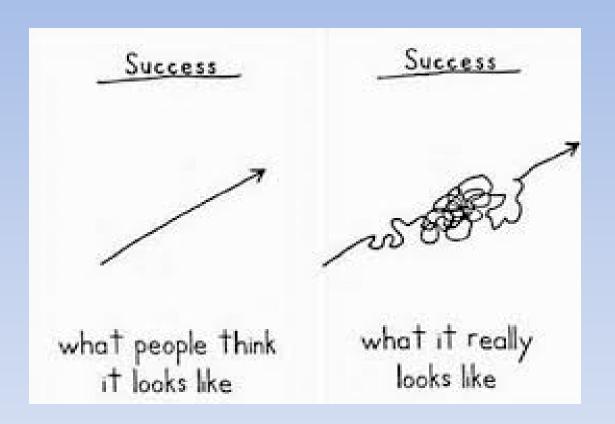
payment values are J.P. Morgan Asset Management estimates.

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#### Market Timing Thought Process Gone Bad!



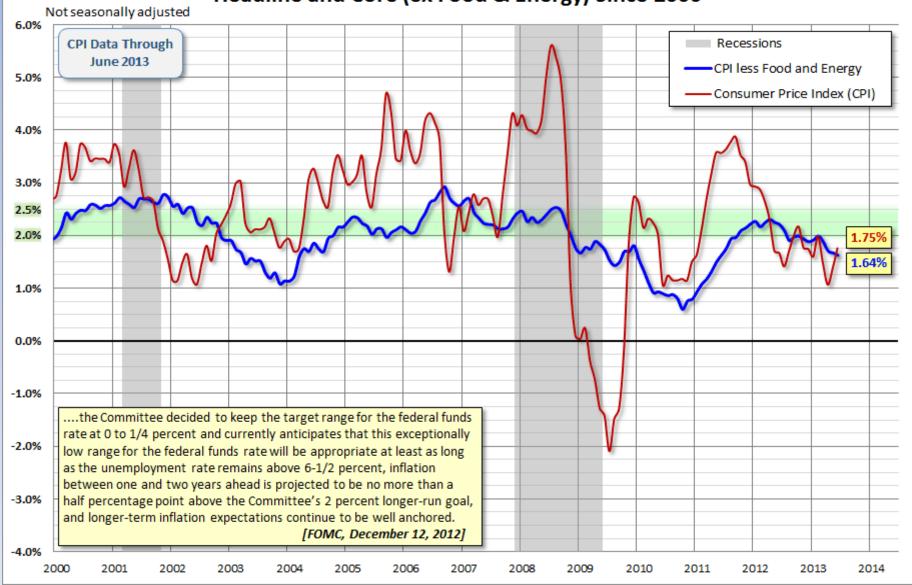






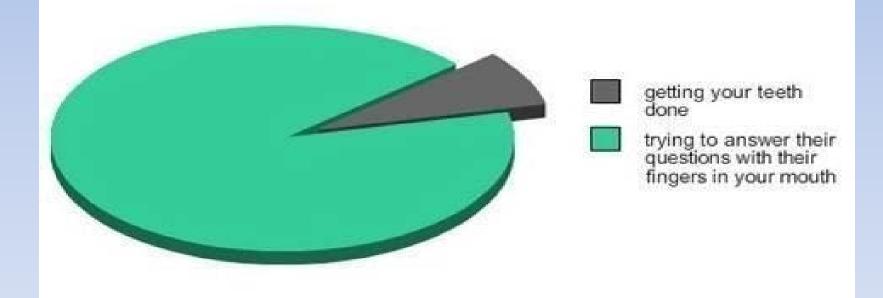
dshort.com July 2013

#### Consumer Price Index for Urban Consumers Headline and Core (ex Food & Energy) Since 2000





#### time spent at the dentist



### Yield History of the 10 Year Treasury Note Where will rates go from here?



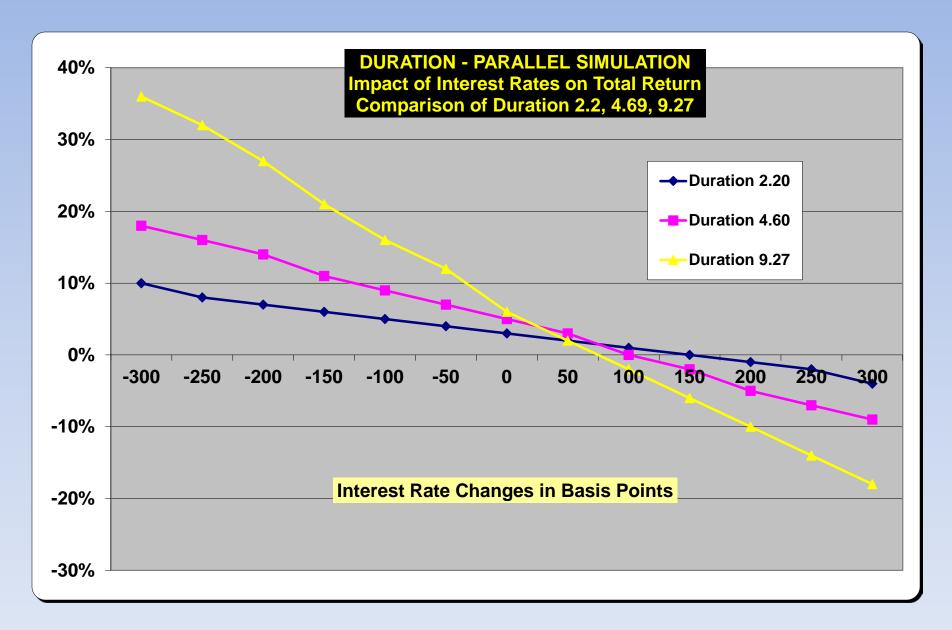




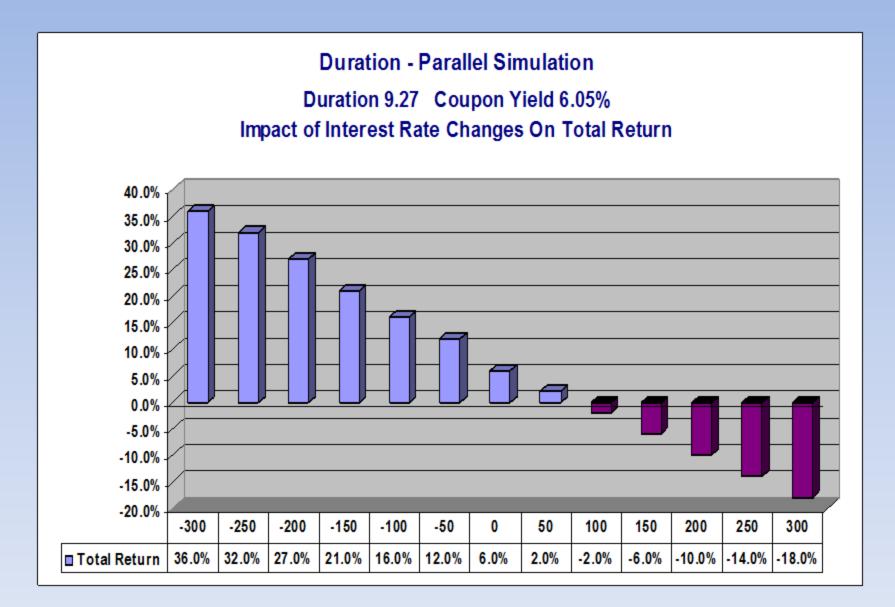
#### 10 Year US Treasury Note Yield, Trading Range













## This is why you want to buy corporate bonds! 2012 Bond Yield Curve

As of April 11, 2012

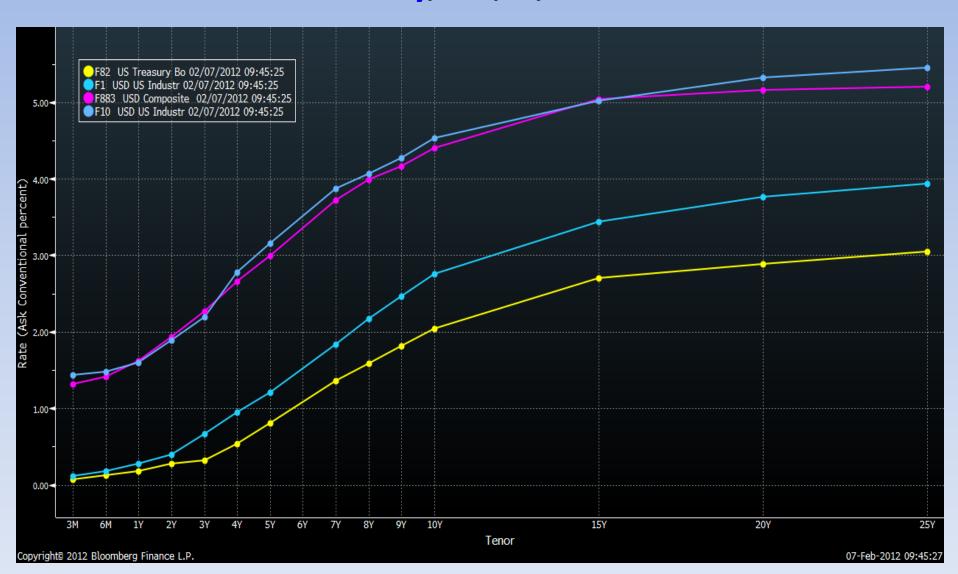
Corporate bonds yields are 2, 3, 4 ..... 10 times higher than US Treasury securities!!!

	US Treasury	US Agency	IL Muni's	"A" Rated Corporate's
3 month	0.07%	0.15%	0.40%	0.75%
1 Year	0.15%	0.22%	0.65%	1.10%
2 Year	0.30%	0.38%	1.05%	2.00%
5 Year	0.90%	1.00%	2.15%	3.20%
10 Year	2.03%	2.45%	3.64%	4.35%
30 Year	3.18%	3.32%	4.70%	5.75%



#### **Corporate Bond Spreads**

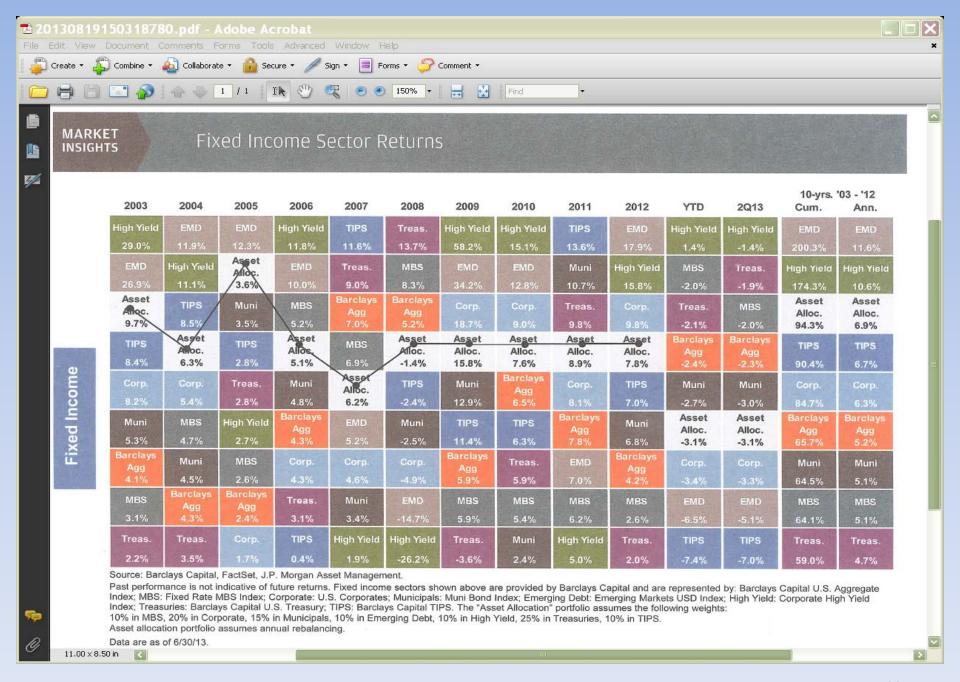
US Treasury, AA, A, BBB as of 4/1/2012



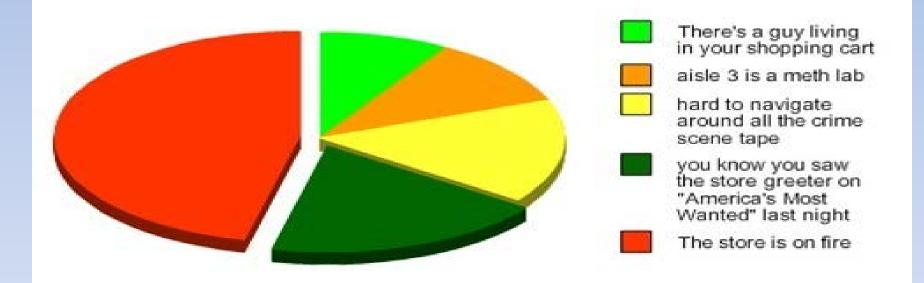
#### JP Morgan S&P "A" rated







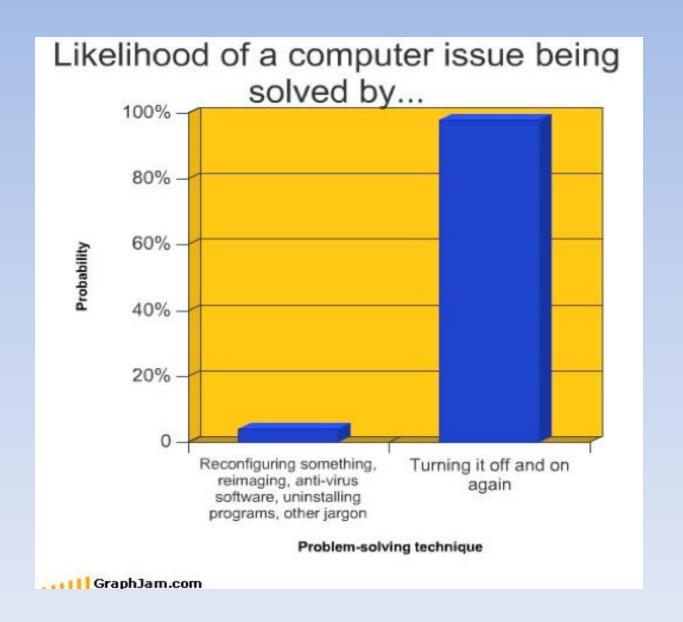
#### Signs you're shopping at a bad Wal-Mart





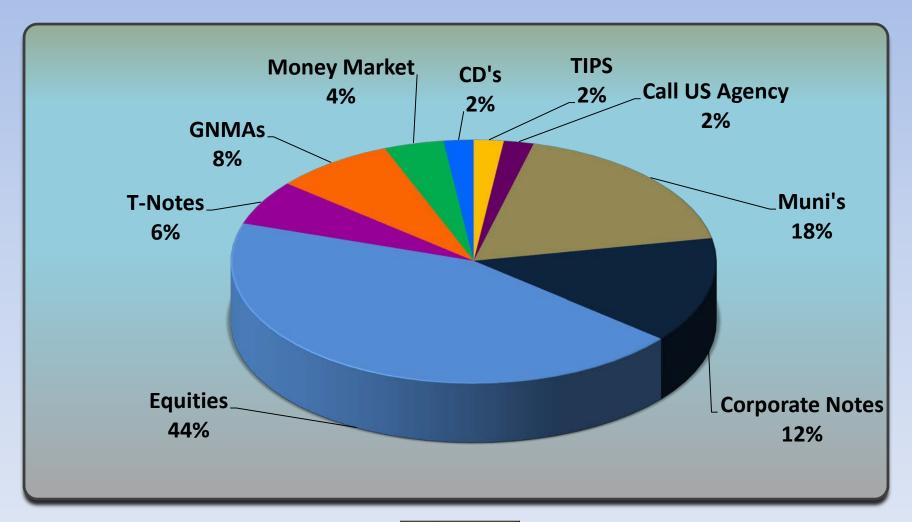


#### Vertical Bar Chart

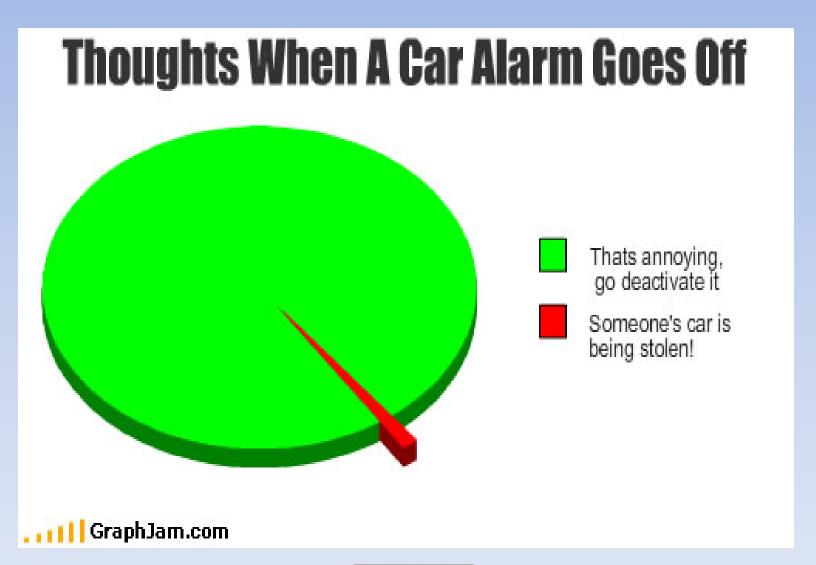




#### **Total Portfolio Structure Pie Chart**





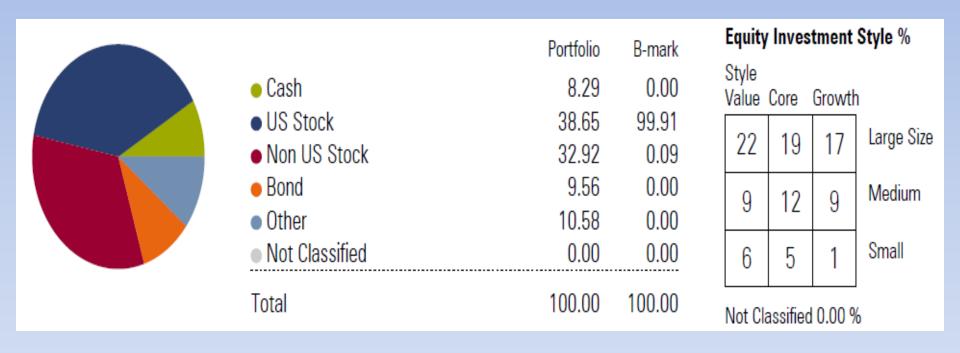








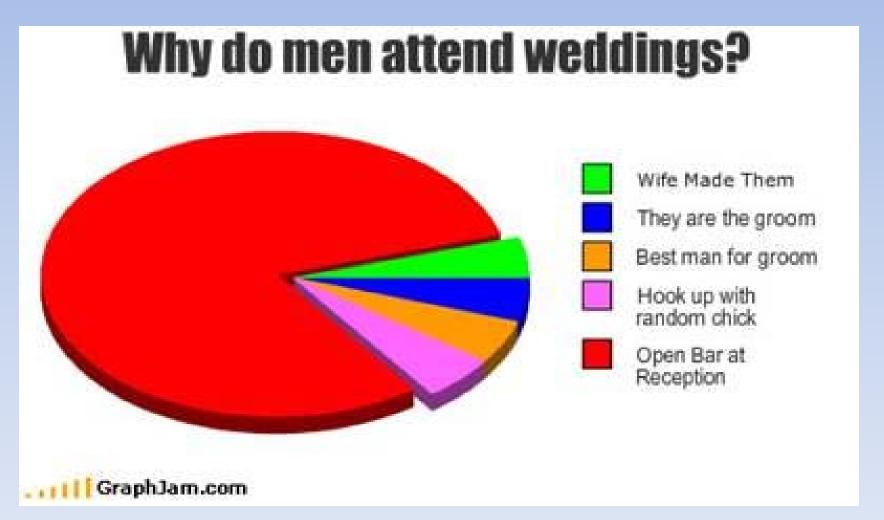
#### **Equity Portfolio Style Weighting Charts**









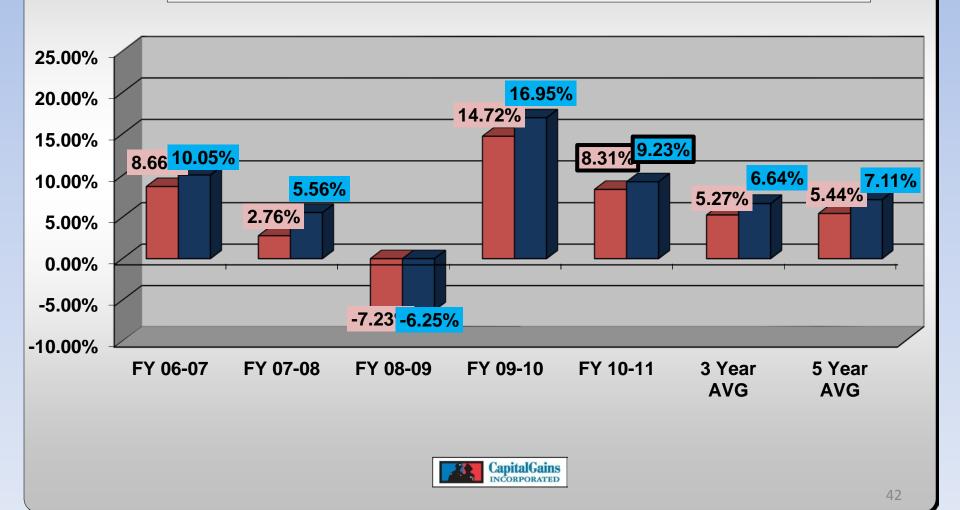




Utopia Police Pension Fund Investment Returns
Blended Benchmark = BIGBI + S&P 500 Index (Same
Percentages of Equity & Bonds as Utopia Police)

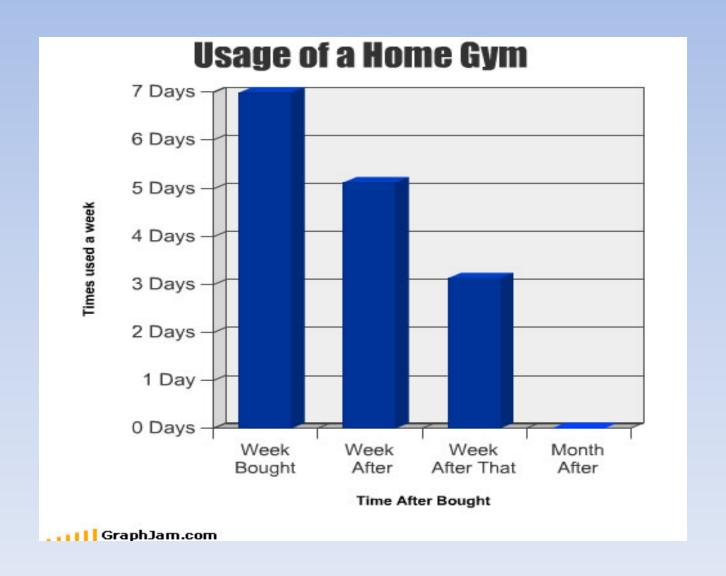
**■ Blended Benchmark** 

Utopia Police



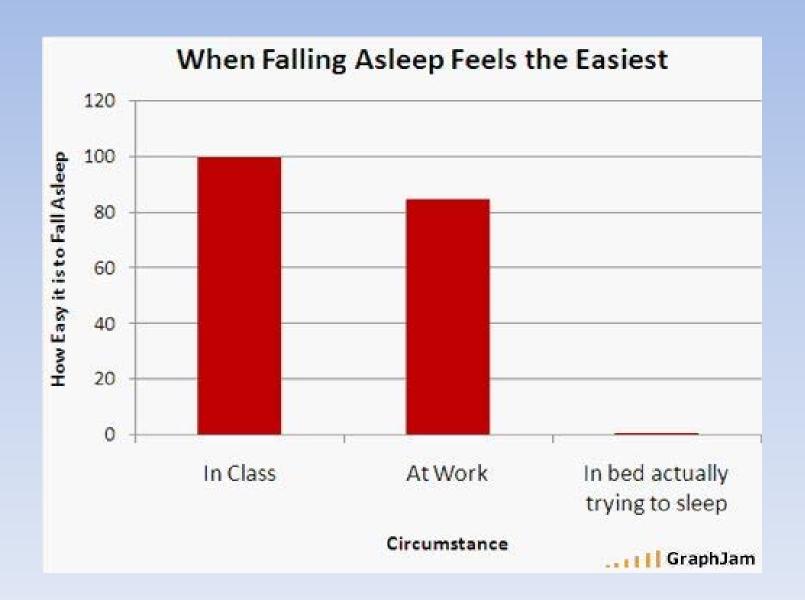


#### **Vertical Bar Chart**





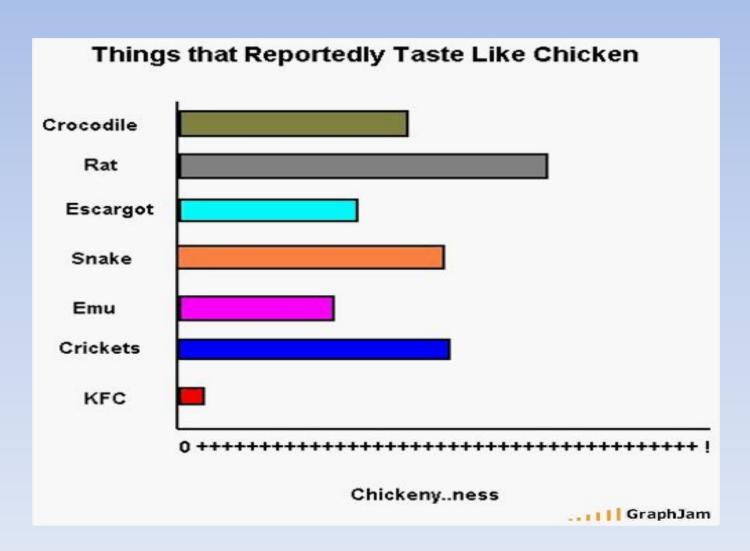
#### **Vertical Bar Chart**



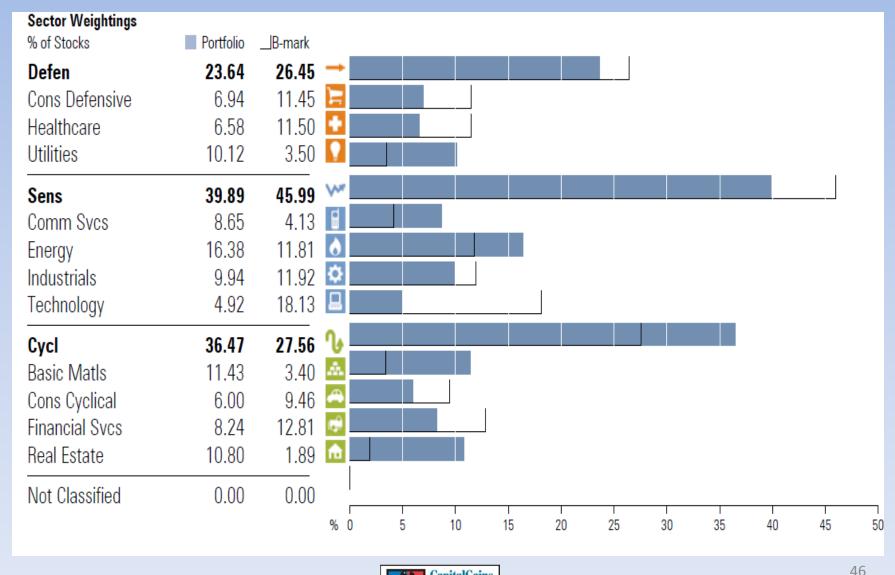


#### **Horizontal Bar Chart**

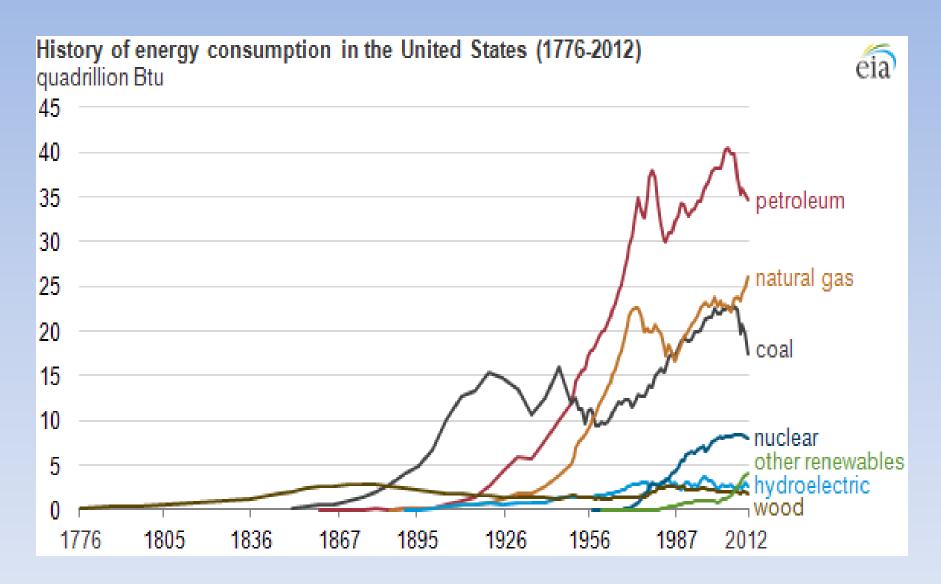
#### Histogram



#### Horizontal Bar Chart – Equity Sector Weightings

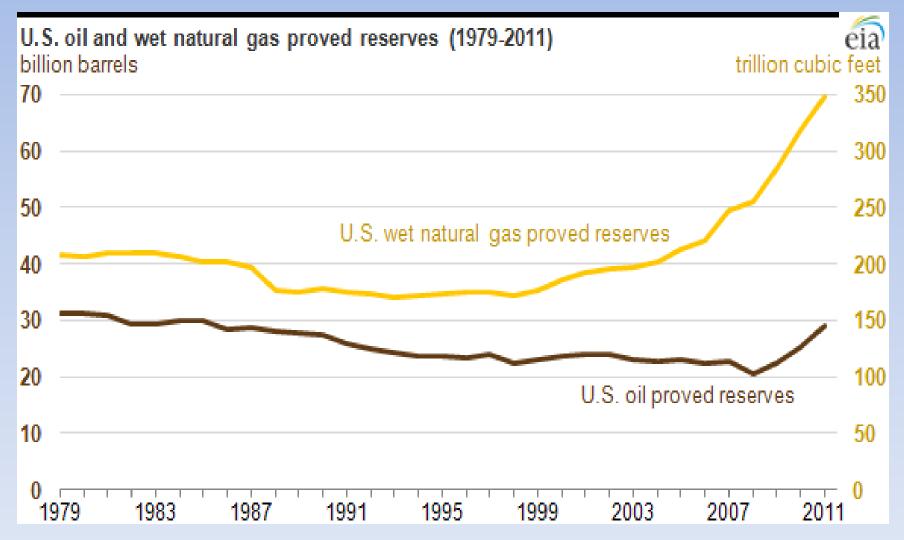


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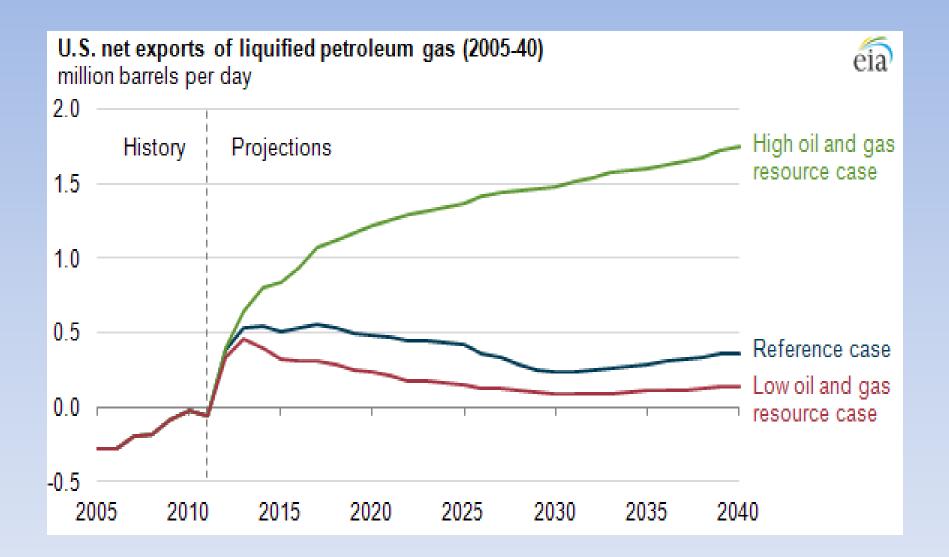




## As of Jun 10, 2013 the Us Department of Energy estimates that the US currently has 1,161 trillion cubic feet of Natural Gas and 345 billion barrels of recoverable shale oil!



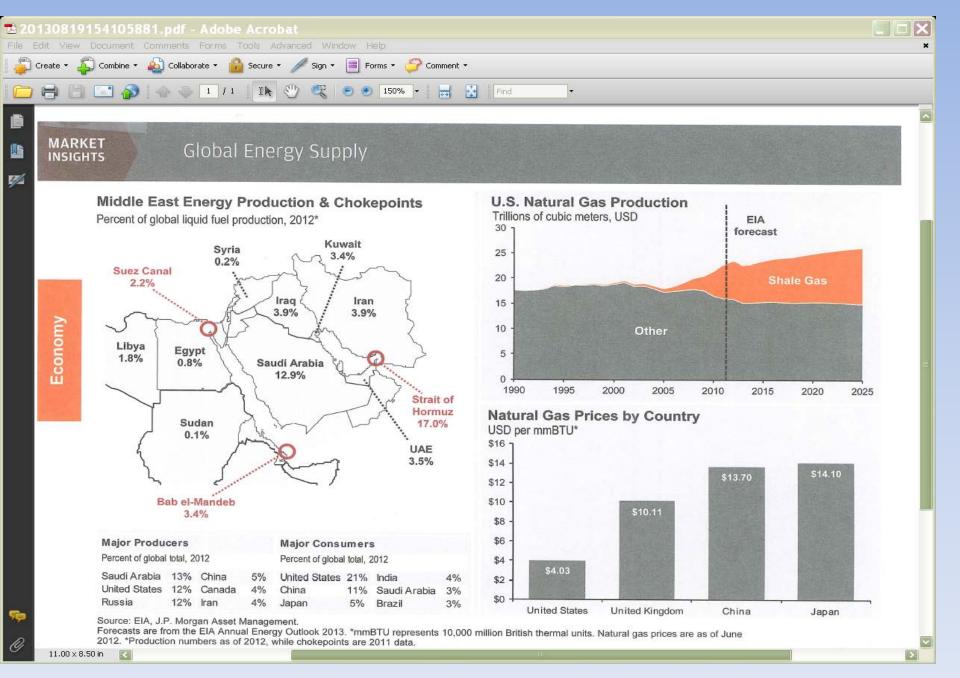












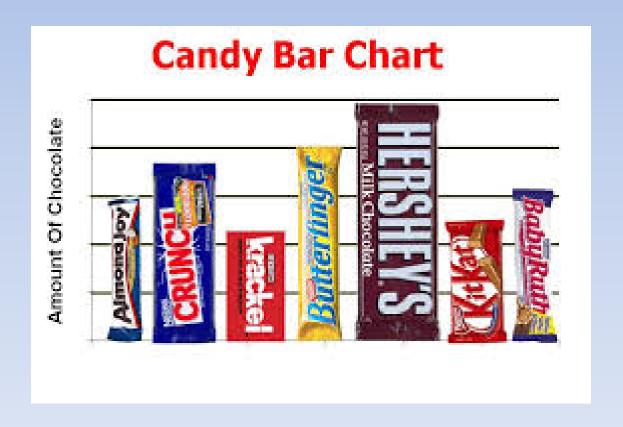


#### Brain Teaser Bar Chart

- Which candy bar contains the most chocolate?
  - Almond Joy
  - Nestle' Crunch
  - Krackel
  - Butterfinger
  - Hershey's Bar
  - Kit Kat
  - Baby Ruth



# The Chocolate King is Hershey's!





### Statistics don't lie, statisticians do!



Learn how to decipher charts and graphs!





#### **THANK YOU!**



### I appreciate the opportunity to make a presentation today!



A special
"thanks" to
Bill Rizer
Winfield Police
Pension Fund
for providing
many of the
humorous slides
in this
presentation.

#### **Gary Karshna**

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