CCEDC

Annual Economic Outlook January 10, 2020

Patricia C. ("Patti") Brennan, CFP®, CEO

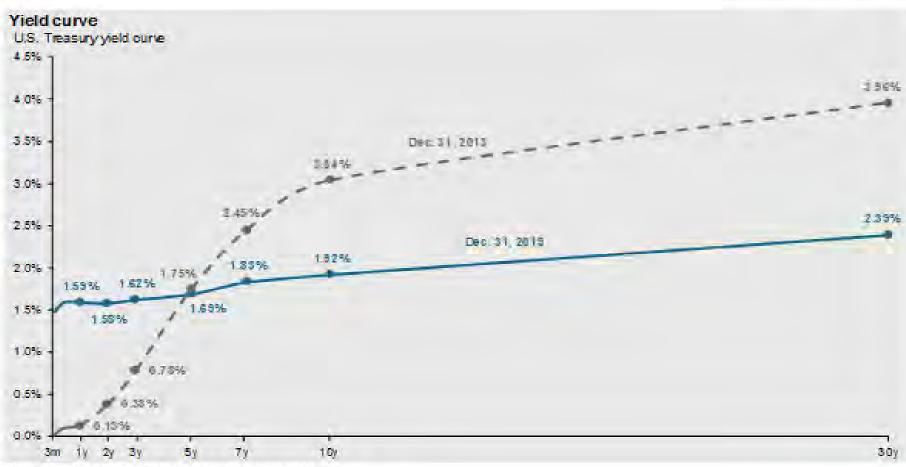


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Undercurrents 12/31/2018:

- 1. Rising Interest Rates
- 2. Trade War and Tariffs
- 3. Earnings headwind from one time impact of tax law changes
- 4. Manufacturing slipping into decline
- 5. Steep decline of almost (20%) in the fourth quarter

6. Oh, and then....the yield curve inverted!

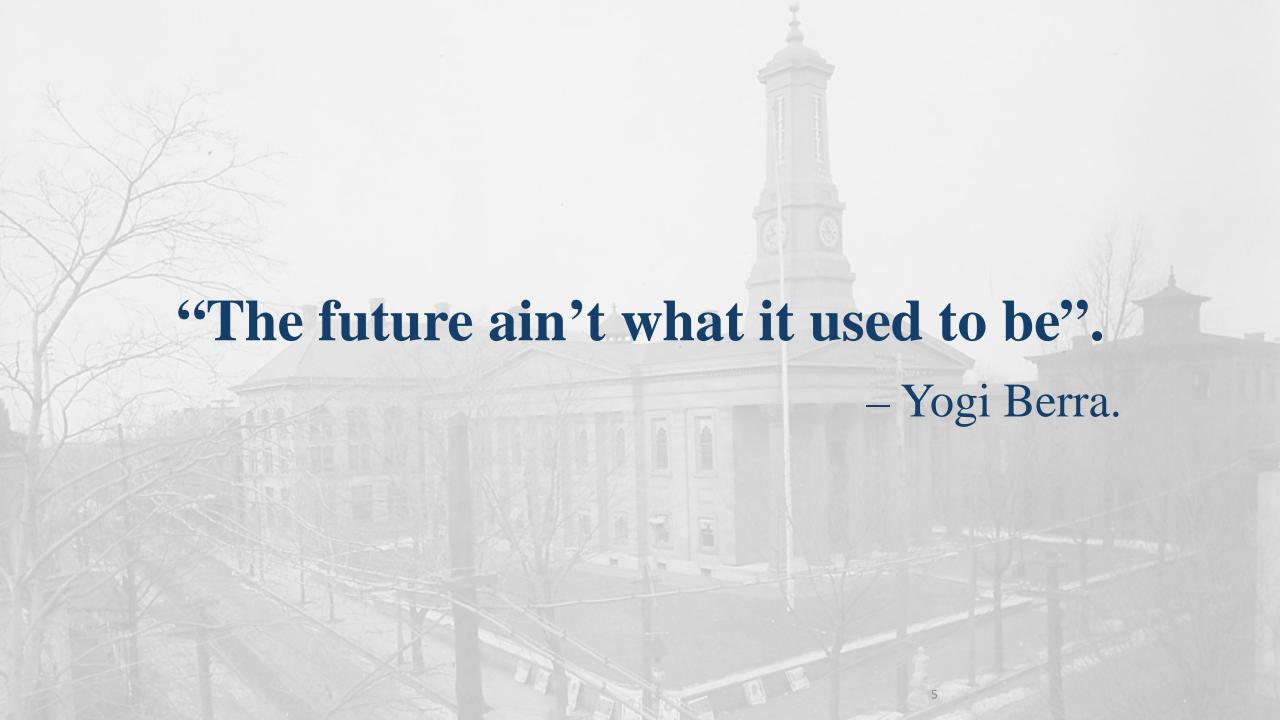


Source: FactSet, Federal Reserve, J.P. Morgan Asset Management. Guide to the Markets — U.S. Data are as of December 31, 2019.

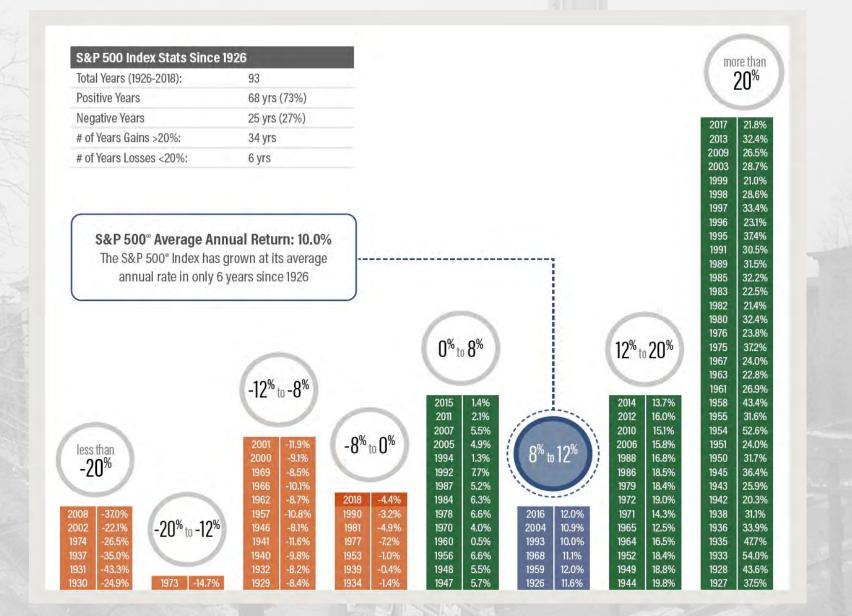
This Wasn't Supposed to Happen:

NYSE Composite	22.3%
S&P 500	28.9%
MSCI EAFE	18.44%
Russel 2000 (small co)	23.7%
Barclays Agg Bond	8.72%
DJ Commodity	12.12%
Source: WSJ – 1/03/2020	

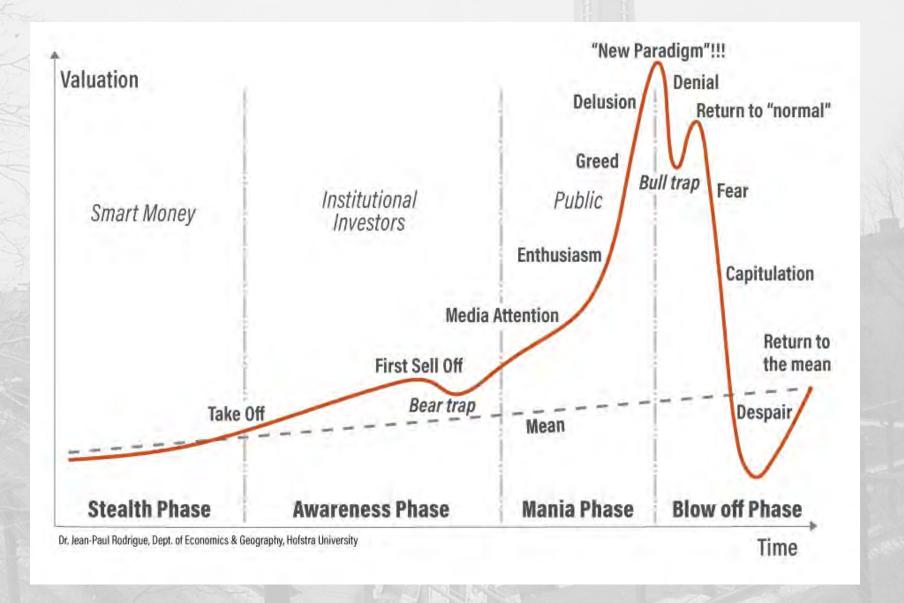
(Yet, it did)



How Atypical was 2019?



Where are we today?



									Register	ed proc	uot fio	WS							
USD billions	AUN	YTO	2018	2017	2018	2015	2014	2013	2012	2011	2010	2009	20 08	2007	2008	2006	20 04	2003	2002
U.S. equity	9,268	(68)	14%	22	(44)	(15)	107	176	(,55)	(22)	32	22	(4)	19	72	111	173	142	52
World equity	3,575	-5	84	244	13	208	150	202	62	21	85	56	(34)	185	169	133	88	40	12
Taxable bond	4.281	368	122	391	216	45	78	19	299	169	226	309	50	106	53	45	28	45	102
Tax-free bond	848	95	11	33	31	21	33	(94)	52	(8)	14	71	12	14	17	8	(6)	(3)	12
Multi-asset	2,714	18	(10)	60	29	57	91	94	49	.29	82	39	15	97	76	81	31	50	22
Liquidity	3,414	472	240	115	145	48	40	31	(8)	(58)	(345)	(236)	542	503	164	50	(5.1)	(90)	ō.

Cumulative flows into long-term asset products

Mutual fund and ETF flows, quarterly, USD billions

2,800
2,400
2,000
1,600
1,200
800
400

William seet: 55,250 mm
cumulative flows a mos 2007
07 08 09 10 11 12 13 14 15 16 17 18 19

Flows into U.S. equity funds & S&P 500 performance

Mutual fund and ETF flows, price index, quarterly, USD billions 290 3,000 2,700 360 2,400 540 2,100 \$20 1.800 1.500 -520 1.200 -540 900 -360 600

Source: Strategic insight Simfund, J.P. Morgan Asset Management. All data include flows through November 2019 and capture all registered product flows (open-end mutual funds and ETFs). Simfund data are subject to periodic revisions. World equity flows are inclusive of emerging market, global equity and regional equity flows. Multi-asset flows include asset allocation, balanced fund, flexible portfolio and mixed income flows.

Guide to the Markets – U.S. Data are as of December 31, 2019.

5&P 500 valuation measures

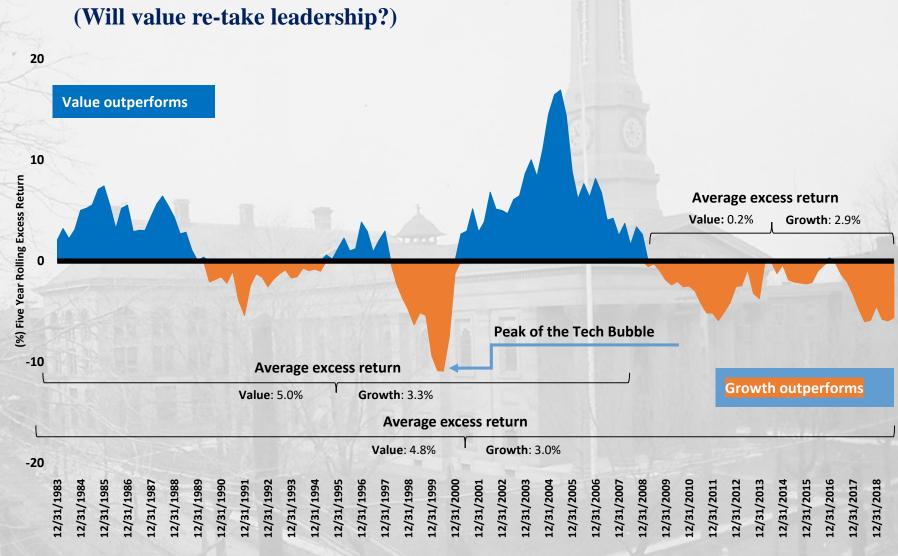
Guide to the Markets - U.S. Data are as of December 31, 2019.

S&P 500 Index: Fo	1,1,000			Valuation measure	Description	Latest	25-year avg.*	Std, dev; Over-/under- Valved
24xx -	N/m			RE	Forward RE	16.18x	16.26x	0.60
	A TILLY			CAPE	Shiller's PE	30.78	27,18	0.58
	1 1 10			Öv. Yed	Dividend yield	1,93%	2.09%	0.41
2x -	1/ 1/1/			P/B	Price to book	3.32	2.96	0.49
	MI	M.		HOF	Price to cash flow	12.97	10.51	1.28
20x -		117	HAM TON BA	EY Spread	EY minus Bas yield.	1.55%	>0.03%	-0.85
8x		1	V	Si-jerra eroga: Id.	161	NOV	W.N	1,0
N		\\\\	~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	My M	···	YN	V.V.	1
8x		# TEV 12		M///	h_///	YV	VV.	
8x		2 TBY 12	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	M/M		Y V	V.V.	

Source: FactSet, FRB, Robert Shiller, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management. Price to earnings is price divided by consensus analyst estimates of earnings per share for the next 12 months as provided by IBES since December. 1994, and PactSet for December 31, 2019. Average P/E and standard deviations are calculated using 25 years of IEES history. Shiller's P/E uses trailing 10-years of inflation-adjusted earnings as reported by companies. Dividend yield is calculated as the next 12-month consensus dividend divided by most recent price. Price to book ratio is the price divided by book value per share. Price to cash flow is price divided by NTM cash flow. EY minus Baa yield is the forward earnings yield (consensus analyst estimates of EPS over the next 12 months divided by price) minus the Moody's Baa seasoned corporate band yield. Std. dev. over-funder-valued is calculated using the average and standard deviation over 25 years for each measure. "F/CF is a 20-year everage due to cash flow data availability."

Asset Management

Value vs. growth



Source: Morningstar Direct. Value: Russell 1000 Value Index, Growth: Russell 1000 Growth Index. Index returns represent past performance, are not a guarantee of future performance, and are not indicative of any specific investment.

Beware of Future Fallacy

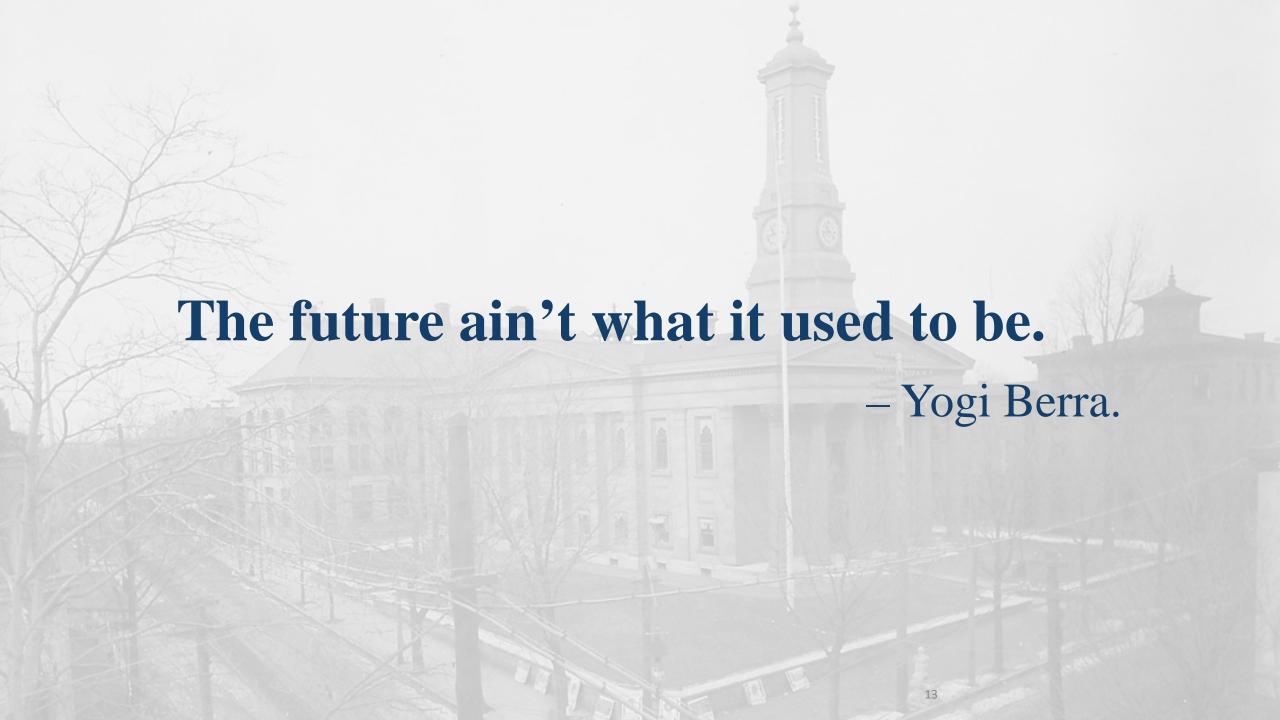
Top Performing Sectors 2009-2019:

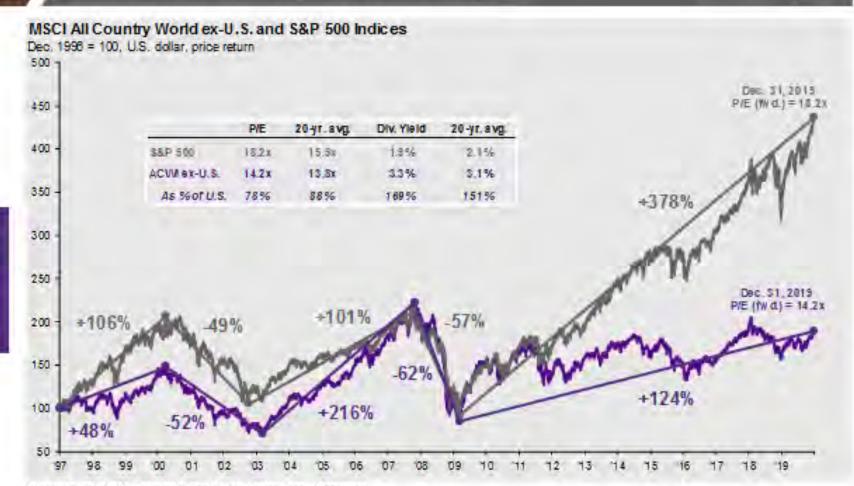
Technology – 328% Consumer Discretionary – 301% Health Care – 245%

Source CNBC; 12/26/2019

Beware Future Fallacy (Continued)

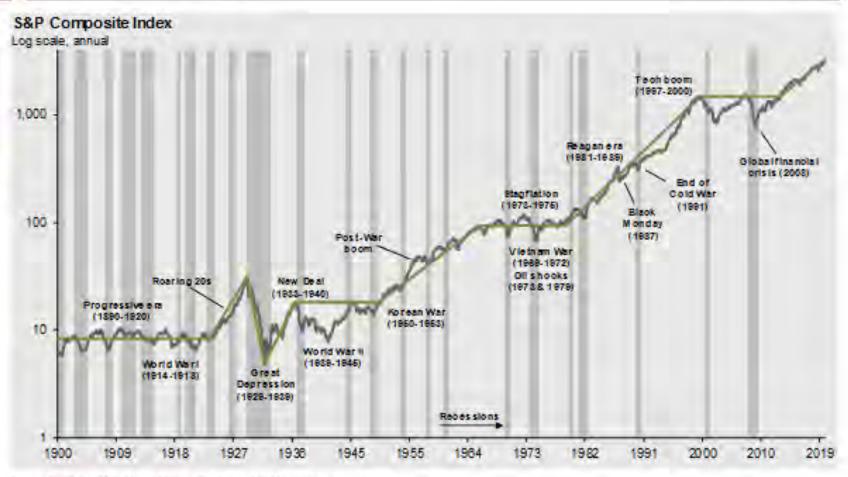
- ❖ The Top 3 Performing Sectors a Decade Earlier earned an 80% Total Return over the *following 10 years*, while
- The average outcome of the **Bottom** 3 Sectors from 2000-2009 earned **184%** from 2010-2019.
- ❖ Markets are random It could be the middle group outperforming next time!





Source: FactBet, MSCI, Standard & Poor's, J.P. Morgan Asset Management. Forward price to earnings ratio is a bottom-up calculation based on the most recent index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactBet Market Apgregates. Returns are cumulative and based on price movement only, and do not include the reinvestment of dividends. Dividend yield is calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by FactSet Market Aggregates. Past performance is not a reliable indicator of current and future results. Guide to the Markets - U.S. Data are as of December 31, 2019.





Source: FactSet, NBER, Robert Shiller, J.P. Morgan Asset Management.

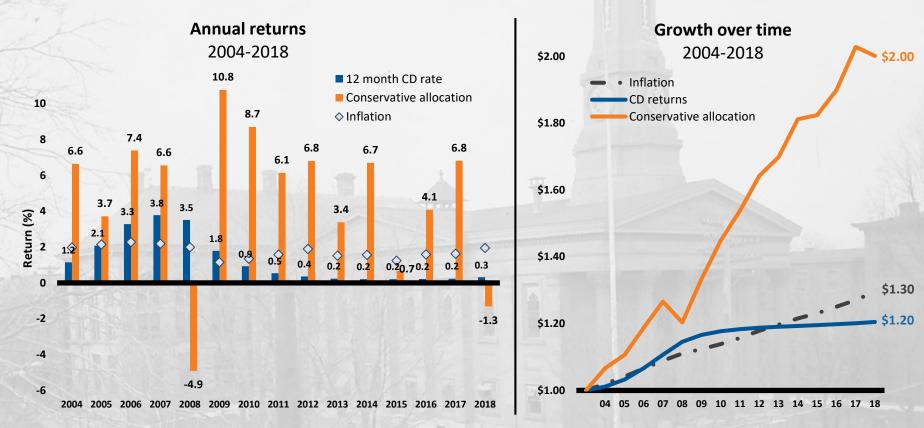
Data shown Hilling scale to best illustrate long-term index patterns. Past performance is not indicative of future returns. Chart is for illustrative purposes only.

Guide to the Markets - U.S. Data are as of December 31, 2019.

J.P.Morgan
Asset Management

Dangers of holding cash

Beware the impact of inflation



Cash investments provide certainty, but historically have not kept up with inflation risk must be considered along with investment risk

A diversified portfolio could be more suitable than cash for investors with longer time horizons

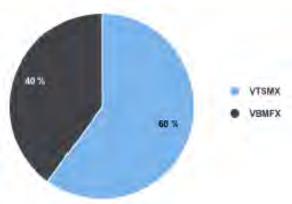
Sources: Factset, Morningstar, Federal Reserve and Bankrate Conservative Allocation represented by 80% Bloomberg Barclays US Agg Bond, 13% Russell 3000, 5% MSCI EAFE and 2% FTSE NAREIT All Equity REITs. Index returns represent past performance, are not a guarantee of future performance, and are not indicative of any specific investment. Indexes are unmanaged and cannot be invested in directly. S&P 500 Index.



Portfolio Backtest

Portfolio 1

Ticker	Name:	Allocation
VTSMX	Vanguard Total Stock Mkt Idx Inv	60.00%
VBMFX	Vanguard Total Bond Market Index Inv	40.00%



Portfolio Performance

Metric	Portfolio 1	Vanguard 500 Index Investor
Start Balance	\$1,000,000	\$1,000,000
End Balance	\$1,623,462	\$1,960,911
End Balance (inflation adjusted)	\$1,201,148	\$1,450,815
CAGR	3.30%	4.62%
CAGR (inflation adjusted)	1.24%	2.53%
TWRR	7.34%	8.70%
MWRR	6.98%	7.99%
Stdev	8.49%	13.83%
Best Year	19.72%	32.18%
Worst Year	-20.20%	-37.02%
Max. Drawdown	-36.16%	-54.81%
Max. Drawdown (excluding cashflows)	-30.72%	-50.97%
Sharpe Ratio	0.73	0.58
Sortino Ratio	1.08	0.84
US Stock Market Correlation	0.99	1.00



Portfolio Backtest

Portfolio 1 Returns

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Inflation	Adjustment	Balance
2005	-1.34%	0.97%	-1.24%	-0.83%	2.65%	0.71%	2.03%	-0.04%	0.07%	-1.45%	2,58%	0.47%	4.55%	3.42%	-\$41,819	\$1,003,646
2006	2.06%	0.15%	0.70%	0.60%	-2.03%	0.15%	0.45%	2.05%	1.70%	2.44%	1.80%	0.52%	11.01%	2.54%	-\$44,568	\$1,069,621
2007	1.09%	-0.38%	0.67%	2.61%	1.94%	-1.18%	-1.78%	1.41%	2.46%	1.49%	-2.02%	-0.27%	6.06%	4.08%	-\$45,379	\$1,089,085
2008	-2.97%	-1.70%	-0.21%	2.74%	0.89%	-4.84%	-0.44%	1.20%	-5.75%	-10.81%	-2.21%	2.62%	-20.20%	0.09%	-\$34,763	\$834,310
2009	-5.23%	-8.25%	5.46%	6.22%	3.55%	0.42%	5.30%	2.63%	3.09%	-1.47%	4.03%	1.20%	19.59%	2.72%	-\$39,911	\$957,862
2010	-1.47%	2.08%	3.70%	1.74%	4.56%	-2.68%	4.40%	-2.17%	5.40%	2.49%	0.12%	3.66%	12.82%	1.50%	-\$43,228	\$1,037,477
2011	1.34%	2.24%	0.27%	2.34%	-0.22%	-1.24%	-0.77%	-3.01%	4.13%	6.50%	-0.29%	0.91%	3.60%	2.96%	-\$42,993	\$1,031,837
2012	3.40%	2.58%	1.68%	0.01%	-3.53%	2.39%	1.17%	1.54%	1.64%	-1.06%	0.53%	0.67%	11.37%	1.74%	-\$45,967	\$1,103,200
2013	3.01%	0.99%	2.42%	1.41%	0.82%	-1.41%	3,57%	-2.08%	2.70%	3.02%	1.77%	1.53%	19.10%	1.50%	-\$52,559	\$1,261,406
2014	-1.25%	2.98%	0.25%	0.35%	1.72%	1.57%	-1.30%	2.97%	-1.59%	2.03%	1.73%	0.03%	9.76%	0.76%	-\$55,381	\$1,329,147
2015	-0.74%	2.94%	-0.48%	0.11%	0.86%	-1.43%	1.29%	-3.80%	-1.43%	4.59%	0.22%	-1.37%	0.30%	0.73%	-\$53,323	\$1,279,753
2016	-2.83%	0.25%	4.47%	0.53%	1.07%	0.91%	2.61%	0.09%	0.06%	-1.66%	1.62%	1.28%	8.52%	2.07%	-\$55,551	\$1,333,225
2017	1.26%	2.50%	0.01%	0.94%	0.88%	0.57%	1.30%	0.42%	1.31%	1.39%	1.85%	0.79%	14.02%	2.11%	-\$60,803	\$1,459,280
2018	2.75%	-2.68%	-0.97%	-0.10%	1.93%	0.43%	2.05%	2.33%	-0.10%	4.92%	1.47%	-5.02%	-3,20%	1.91%	-\$56,501	\$1,356,015
2019	5.55%	2.14%	1.63%	2.50%	-3.41%	4.72%	0.99%	-0.24%	0.83%	1.39%	2.34%		19.72%	2.38%	\$0.00	\$1,623,462



Key Financial Inc Portfolio Visualizer

Portfolio Backtest

Vanguard 500 Index Investor Returns

Year	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Inflation	Adjustment	Balance
2005	-2.45%	2.09%	-1.76%	-1.91%	3.17%	0.13%	3.71%	-0.91%	0.79%	-1.68%	3.76%	0.02%	4.77%	3.42%	-\$41,910	\$1,005,835
2006	2.85%	0.26%	1.23%	1.33%	-2.90%	0.13%	0.61%	2.36%	2.56%	3.25%	1.89%	1.39%	15.64%	2.54%	-\$46,527	\$1,116,637
2007	1.49%	-1.97%	1.11%	4.42%	3,48%	-1.68%	-3.08%	1.50%	3.72%	1.58%	4.19%	-0.70%	5.39%	4.08%	-\$47,071	\$1,129,715
2008	-8.02%	-3.25%	-0.44%	4.85%	1.29%	-8.44%	-0.83%	1.45%	-8.91%	-16.79%	-7.17%	1.07%	-37.02%	0.09%	-\$28,459	\$683,027
2009	-8.41%	-10.66%	8.76%	9.56%	5,62%	0.22%	7.58%	3.60%	3.72%	-1.87%	5,98%	1.95%	26.49%	2.72%	-\$34,557	\$829,374
2010	-3.80%	3.09%	6.01%	1.58%	-8.01%	-5.24%	7.00%	-4.53%	8.92%	3.79%	0.00%	6.67%	14.91%	1.50%	-\$38,123	\$914,942
2011	2.36%	3.42%	0.03%	2.95%	-1.15%	-1.67%	-2.05%	-5.45%	-7.04%	10.91%	-0.23%	1.02%	1.97%	2.96%	-\$37,317	\$895,613
2012	4.46%	4.31%	3.28%	-0.64%	-6.02%	4.11%	1.37%	2.24%	2.58%	-1.86%	0.56%	0.90%	15.82%	1.74%	-\$41,494	\$995,847
2013	5.18%	1.34%	3.74%	1.91%	2.33%	-1.35%	5.07%	-2.91%	3.12%	4.59%	3.03%	2.51%	32.18%	1.50%	-\$52,651	\$1,263,615
2014	-3.47%	4.56%	0.82%	0.72%	2.33%	2.05%	-1.39%	3.98%	-1.41%	2.42%	2.68%	-0.26%	13.51%	0.76%	-\$57,372	\$1,376,938
2015	-3.02%	5.74%	-1.59%	0.95%	1.27%	-1.93%	2.08%	-8.04%	-2.49%	8.42%	0.29%	-1.59%	1.25%	0.73%	-\$55,765	\$1,338,362
2016	4.98%	-0.15%	6.78%	0.37%	1.78%	0.25%	3.68%	0.13%	0.01%	-1.83%	3.70%	1.96%	11.82%	2.07%	-\$59,861	\$1,436,655
2017	1.88%	3.96%	0.10%	1.02%	1,39%	0.61%	2.04%	0.29%	2.06%	2.32%	3.06%	1.10%	21.67%	2.11%	-\$89,918	\$1,678,027
2018	5.71%	-3.69%	-2.56%	0.37%	2.39%	0.61%	3.71%	3.25%	0.55%	-6.85%	2.03%	-9.04%	-4.52%	1.91%	-\$64,084	\$1,538,027
2019	8.00%	3.20%	1.94%	4.04%	-6.36%	7.03%	1.43%	-1.59%	1.86%	2.15%	3.62%		27.50%	2.38%	\$0.00	\$1,960,911

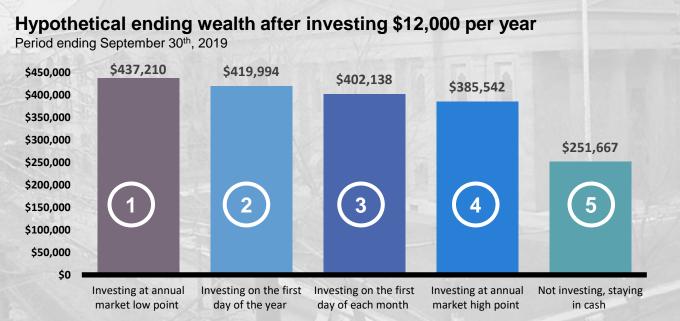
Portfolio Visualizer Portfolio Backtest Drawdowns for Portfolio 1 (worst 10) Rank Start End Length Recovery By Recovery Time Underwater Period Drawdown Feb 2009 Oct 2010 Nov 2007 1 year 4 months 1 year 8 months 3 years -30.72% May 2011 Sep 2011 Jan 2012 9 months -9.08% 5 months 4 months -8.46% Sep 2018 Dec 2018 4 months Mar 2019 3 months 7 months Jun 2015 Sep 2015 4 months Apr 2016 7 months 11 months -5.33% Feb 2018 Apr 2018 3 months Jul 2018 3 months 6 months -3.72% May 2012 May 2012 1 month Aug 2012 3 months 4 months -3.53% May 2019 May 2019 1 month Jun 2019 1 month 2 months -3.41% Jun 2007 Jul 2007 Sep 2007 -2.94% 8 2 months 2 months 4 months Jan 2005 -2.45% 9 Apr 2005 4 months May 2005 1 month 5 months 10 Aug 2013 -2.06% Aug 2013 1 month Sep 2013 1 month 2 months Drawdowns for Vanguard 500 Index Investor (worst 10) Rank Start End Length Recovery By Recovery Time Underwater Period Drawdown 1 year 4 months Aug 2012 Nov 2007 Feb 2009 3 years 6 months 4 years 10 months -50.97% 2 Oct 2018 Dec 2018 3 months Apr 2019 4 months 7 months -13.55% 3 Aug 2015 Sep 2015 2 months May 2016 8 months 10 months -8.38% May 2019 May 2019 1 month Jun 2019 1 month 2 months -6.38% 5 Feb 2018 Mar 2018 2 months Jul 2018 4 months 8 months -6.16% 8 Jun 2007 Jul 2007 2 months Sep 2007 2 months 4.71% 4 months 4 months Jul 2005 -4.04% Jan 2005 Apr 2005 3 months 7 months Jan 2014 Jan 2014 Feb 2014 -3.47% 8 1 month 1 month 2 months 9 Jan 2015 Feb 2015 -3.27% Dec 2014 2 months 1 month 3 months 10 -2.91% Aug 2013 Aug 2013 1 month Sep 2013 1 month 2 months Portfolio Components Ticker Name CAGR Best Year Worst Year Max DD Sharpe Ratio Sortino Ratio US Mkt Correlation Stdev VTSMX Vanguard Total Stock Mkt ldx Inv 8.85% 14.29% 33.35% -37.04% -50.89% 0.58 0.83 1.00 VBMFX Vanguard Total Bond Market Index Inv 4.05% 3.26% 8.77% -2.26% 0.84 1.48 -3.99% -0.0412/26/2019 www.portfollovisualizer.com 13 of 17

The above funds are being used purely for informational and statistical purposes as a component to this illustration only (this is not a solicitation).

Be invested, stay invested

Focusing on long-term outcomes- \$12,000 per year for 20 Years





Note that one year represents a 12-month period ending September 30th.

Assumes a one-time investment of \$12,000 per year into a hypothetical balanced portfolio with no withdrawals between June 30th, 2001 and September 30th, 2019.
Source: Russell Investments.

Cash return based on return of \$12,000 invested each year in a hypothetical portfolio of 3-month Treasury bonds represented by the FTSE Treasury Bill 3-month Index without any withdrawals between June 30th, 2011 and September 30th, 2019.

Source: Morningstar.

Indexes are unmanaged and cannot be invested in directly. Returns represent past performance, are not a guarantee of future performance, and are not indicative of any specific investment.

Hypothetical analysis provided for illustrative purposes only.

What Can Soccer Teach us About Portfolio Management?



Asset class returns

GTM - U.S. | 60

															2006	- 2019
2005	2008	2007	2008	2009	2010	2011	2012	2013	2014	2016	2018	2017	2013	2019	Ann.	Vol.
=W	Melts	50 ty	hous house	EW 20041	MBILL	RETA	REITE	Smell	Reits	MBILE	Sec	EV	Cant	Cop	Large Sup	Mella
34.5%	35.1%	11.3%	5.284	15.34	27.9%	8.3%	19.7%	58.8%	28.0%	2.8%	21.5%	27.4%	18%	1124	9.8%	22.2%
Comdby.	and the same of th	Comety.	Cash	Helt	Small	PARE Income	High Tiefe	Lenge	Large Cap	Lange	High Yould	DIN	Frita 8 Income	REIT	Relie	SEW SEW ST
264%	32.55	16.2%	1.8%	39.4%	28.8%	7.35	19.6%	39.4%	8.7%	Last	14.3%	22.0%	L 1%	28.7%	8.3%	22.75
POTEN	D III	UW tour	Awant.	DW	EM SELEV	Hen	=7	DOLLA	TIME TO STATE OF	PARE NOTES	Large	Lame	REIS	Small Cita	Small	Comdity.
HADEL	28.94	TERN	2300	32.3%	0.24	3.15	9.15	23.3%	2.24	150	12.05	213%	+4.8%	25.5%	1.9%	18.6%
RETH	Small	Allec.	High Trule	MERT W	Comply.	Lugge	UN	Asset Afte	Asset	CHIM	Corndity.	Sine I	High	DW EV	= 7	Small
12.2%	18,4%	7.1%	-26.9%	28.0%	18.8%	2.1%	17.9%	1/2%	5.24	0.0%	11.8 %	19,8%	-4.0%	22 7%	7. PL	17:75
Asset Allec.	Large	Page 2	Small	Smell	Large	Case	Small	High	Small	UW.	±M ±m =m	Asset Albc.	Large	Asset Agec.	High	BM
1.10	13.3%	7 U S	-2.2.8%	27.25	15.1%	0.1%	Te, 354	T.3%	4.9%	-U AS	ALG T	No.	-4.4%	193%	7.2%	IT as
Large	August	Large	Comety.	Large	High	Asset	Sarge/	Reffy	Cush	Against	Relly	High	Sange.	-94	Asset	Large
- U-	15.3%	5.55	-33.8%	20.5%	14.8%	20.7%	TE Die	2.2%	0.0%	-Z.0%	8.6%	10.4%	A 16 c.	18.75	8.2%	14.01
Smell	High	Cush	Large	Amet	Asset	2 mail	Augus	Cush	High	Hgb	40000	Relia	Small	Hgb	LIM	High
6.8%	Yestal 12.7%	4.8%	-17 U	25.0%	13.3%	A 25	Alle c 12.2%	0.0%	U.U%	-2.7%	8.3%	8.7%	-11.0%	THE M.	2.24	10.9%
Hex	Cush	Hen	Ren	Comdity.	UW	0.00	FREE	ticad	EW	=me1	"Elect"	THAT	Comd by	MARK	BANK	Asset
9.8%	4.8%	3.2%	-27.7%	18.9%	8.2%	-TETTS	4.2%	12 2 TL	- 044	-4.6%	2.64	1.1%	-11.2%	8.7 K	4.10	10.0%
Child	CHIE.	=me F	UM	T west	799E	Comdty.	Caub	±Ψ	2.0)	ew.	UN	Comdty.	OW.	Comdby.	Cash	7000
9.0%	4.3%	-18%	- 43 . 1%	5 154	incoma 6.5<	-12.25	0.08	22.314	± 4.5%	LM_S	1.5%	1.7%	- 13 .4%	7.7%	1.3%	2.45
tices	Comsty.	REST	±9	Cust	Cash	=W	Coind by.	Compty.	Admin of the	-	Cush	Cush	EW	Cuin	Comdty.	Cook
201			be only		1000	200-17	THE REAL PROPERTY.		Condity.	Comulty.	100000	100	SELIS!	1000		
2.4%	2.7%	-13.7%	432.4	0.1%	0.1%	1848	- 1: 1%	-9.5%	- 17.0%	-24.7%	0.3%	0.8%	- 11 25	7.2%	-2.6%	1,05

Investing principles

Source: Barclays, Bloomberg, FactBet, MBCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management.

Large cap: 8&P 500, 8mail cap: Russell 2000, EM Equity: MBCI EME, DM Equity: M8CI EAFE, Connoty: Bloomberg Commodity Index, High Yield: Bloomberg Barclays Global HY Index, Fixed Income: Bloomberg Barclays US Aggregate, REITs: NAREIT Equity REIT Index, Cash: Bloomberg Barclays 1-3m Treasury. The "Asset Allocation" portfolio assumes the following weights: 25% in the 8&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg Barclays US Aggregate, 5% in the Bloomberg Barclays 1-3m Treasury, 5% in the Bloomberg Barclays Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index, Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period of 12/31/04 – 12/31/19. Please see disclosure page at end for Index definitions. All data represents total return for stated period. The "Asset Allocation" portfolio is for illustrative purposes only. Past performance is not indicative of future returns.

Guide to the Narkets – U.S. Data are as of December 31, 2019.

J.P.Morgan
Asset Management

Snapshot of U.S. Household Health

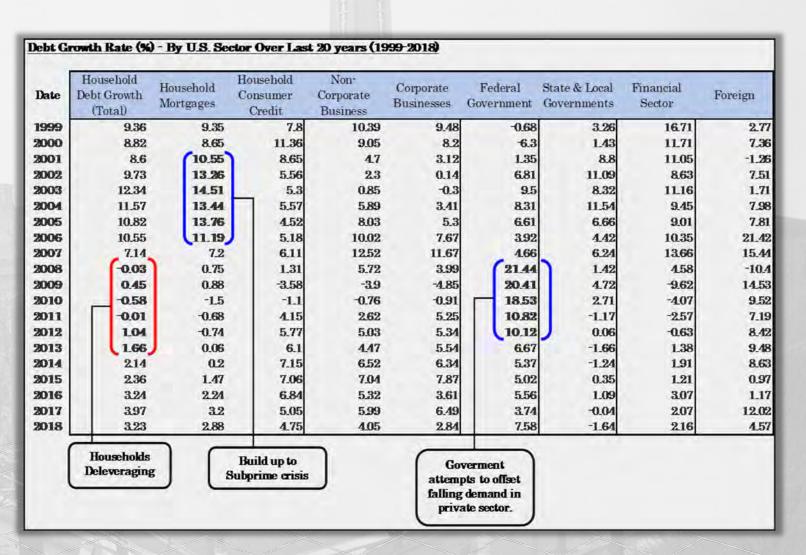
Household asset growth has
been outpacing household debt
growth. This is primarily due to
a slowdown in net mortgage
creation. U.S. Household net
worth stands at \$113.8
Trillion.

	2010	2018	bsolute Frowth	CAGR
Net Worth (in billions)	\$ 67,125	\$ 113,832	\$ 46,707	6.82%
Assets:	\$ 81,161	\$ 130,218	\$ 49,057	6.09%
Nonfinancial Assets	\$ 25,551	\$ 39,243	\$ 13,692	5.51%
Financial Assets	\$ 55,611	\$ 90,975	\$ 35,364	6.35%
Liabilities:	\$ 14,037	\$ 16,386	\$ 2,349	1.95%
Mortgages	\$ 9,994	\$ 10,517	\$ 524	0.64%
Consumer Debt	\$ 4,043	\$ 5,868	\$ 1,825	4.77%

20 Year History of Debt Growth by U.S. Sector

Growth in mortgage debt rapidly decline after 2006.

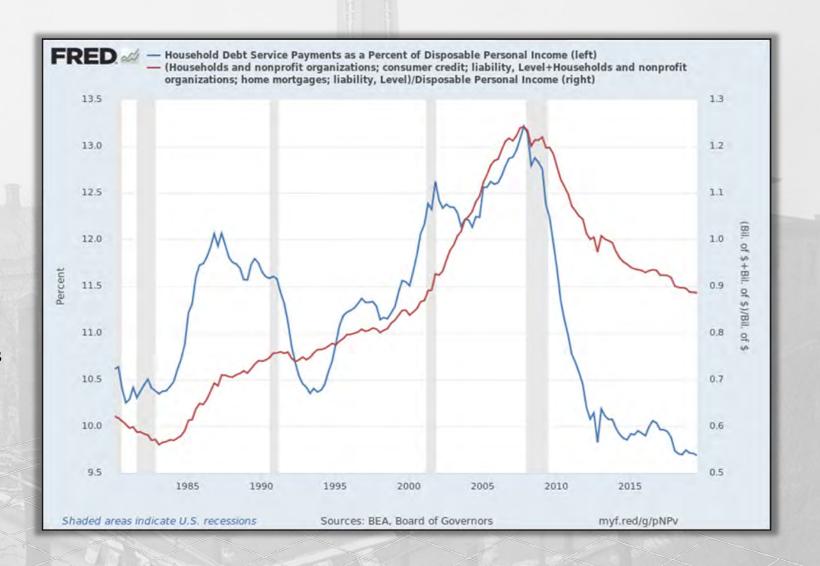
Household sector experienced a prolonged deleveraging to repair balance sheets.



Households are still deleveraging their balance sheets

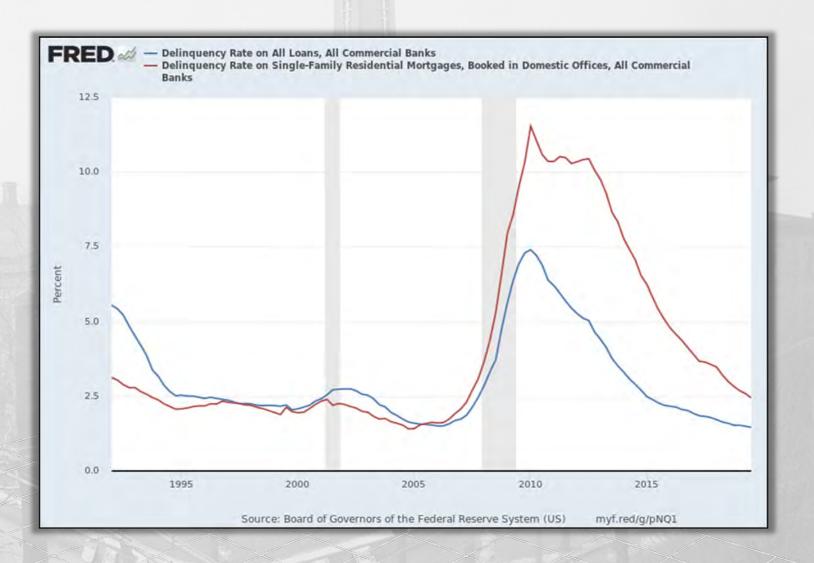
Total household debt as a % of disposable personal income* (red line, right scale) continues to fall, but is still high relative to income. Debt servicing costs (blue line, left scale) fell precipitously during the recovery due to lower interest rates, but will increase if rates rise. Peaks in debt service payments tend to coincide with recessions.

*(DPI = personal income - taxes)



Delinquency Rates on Loans nearing all-time lows

Only 1.46% of all loans held by
Commercial Banks are presently
past due by 30 days or more. The
peak was 7.40% in the 1st quarter of
2010. Mortgages reached a
delinquency rate of 11.54% at the
same time period.



The New "SECURE" Act

- 1. RMDs don't start until age 72
- 2. Stretch IRAs now limited to 10 years.
- 1. Workers can contribute to IRAs after age 70.
- 2. Businesses can group together to keep administrative costs down; incentives to Start Plans
- 3. Add annuities under a safe harbor as an investment option, and auto-escalate employees contributions up to 15%.



Key Financial and MIT



Key Financial and MIT







The MIT Age Lab – Four 8000 Day Segments

• Our lives are broken into:

First 8000 Days

- Birth to about 21
- Learn to walk, talk, and communicate (sometimes)
- Importance of sharing
- Go to school, maybe college
- First kiss
- Do a few things we don't want to tell our parents about!

Second 8000 Days

- Life after school to about 40
- Get a job
- Get married
- Buy a house
- Maybe have a couple kids
- "Busy" takes on new meaning here

Third 8000 Days

- Forties and Fifties
- From soccer fields to graduation parties
- Tuition expenses loom
- Perhaps a trip to a professional to bail kids out of some sort of trouble
- Peak earning years
- Retirement

• The Longevity Economy: Dr. Joseph Coughlin, MIT

The Last 8000 Days

- By 60 or 65, the standard script is unwritten It's different for everyone
 - Professional identity is gone
 - Relationships change
 - Rituals are gone
- There is just so much travel we can do and golf we can play...

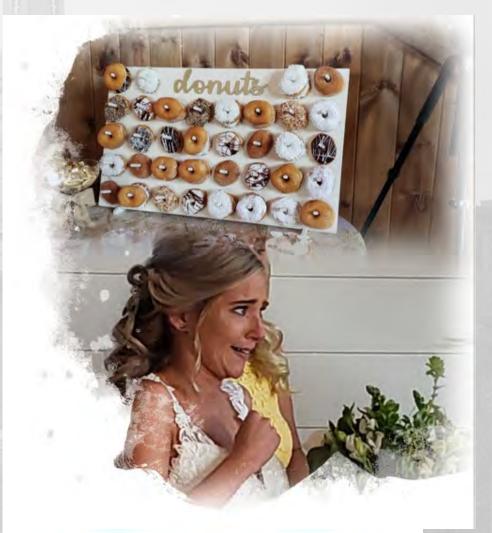


Unless you're Drew

Phase 1 – Managing Ambiguity

- The Honeymoon First few months are wonderful filled with projects and activities
- Answers to two questions:
 - "Are we going to be OK?"
 - "Are there any blind spots?"
- Creating tax efficient cash flow, guardrails for bucket list, and a portfolio that can last a lifetime.

"What am I going to do on Day 240?"



This phase is about **Money** and **Meaning**

Phase 2 – Big Decision Phase

- Taking care of your home presents challenges:
 - "Who's going to mow my lawn?"
 - "Who's going to change the light bulbs?"
- Socioemotional selective theory: (Shrinking Worlds)
 - Less focus on new things
 - Double down on known

- Laura Carstensen Stanford Center on Longevity
- The Longevity Economy Dr. Joseph Coughlin



Phase 3 – Managing Complexity

- Sporting events replaced by Dr. appts.
- Managing medications throughout the day
- Serious thought to downsizing, "rightsizing" or a continuing care community
- And how about...



THIS IS NOT A BIL

lease Keep This Form For Your Records)

EXPLANATION OF BENEFITS

JOHN A DOE 1234 ANYWHERE DRIVE FARGO ND 58103 000001

Date: 02/20/12 Benefit Plan Number: Y0A9999999

Page Number: 1 of 2

Member Services

Local: 701-277-2227 ND: 800-342-4718

Payment Su	ımmary					
Patient/	Claim Number	Paid to :	Total Charge	Covered Amount	Previously Processed	Your Responsibility
JOHN A	9920100000/00	PROVIDER	135.00	60.00	0.00	75.00

YEAR TO DATE COST SHARING STATUS: 2012

Applied to \$1000 per member deductible: JOHN A \$ 35.00 \$ 35.00 has accumulated toward family Applied to \$1500 per member coinsurance: JOHN A \$ 15.00 \$ 15.00 has accumulated toward family

You owe \$75 and this is "Not A Bill"?

Phase 4 – Living Solo

- Reset back through the first three stages
 - Phase 1 Managing Ambiguity
 - Phase 2 Making big decisions, tough choices
 - Phase 3 Dealing with complexity...even more difficult during the grieving process

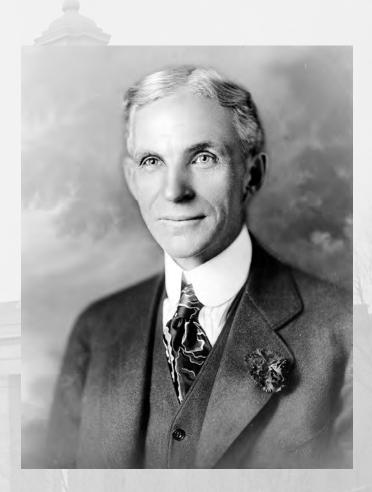


Anyone who *stops* learning is old, whether at twenty or eighty.

Anyone who keeps learning stays young.

The greatest thing in life is to keep your mind young.

—Henry Ford



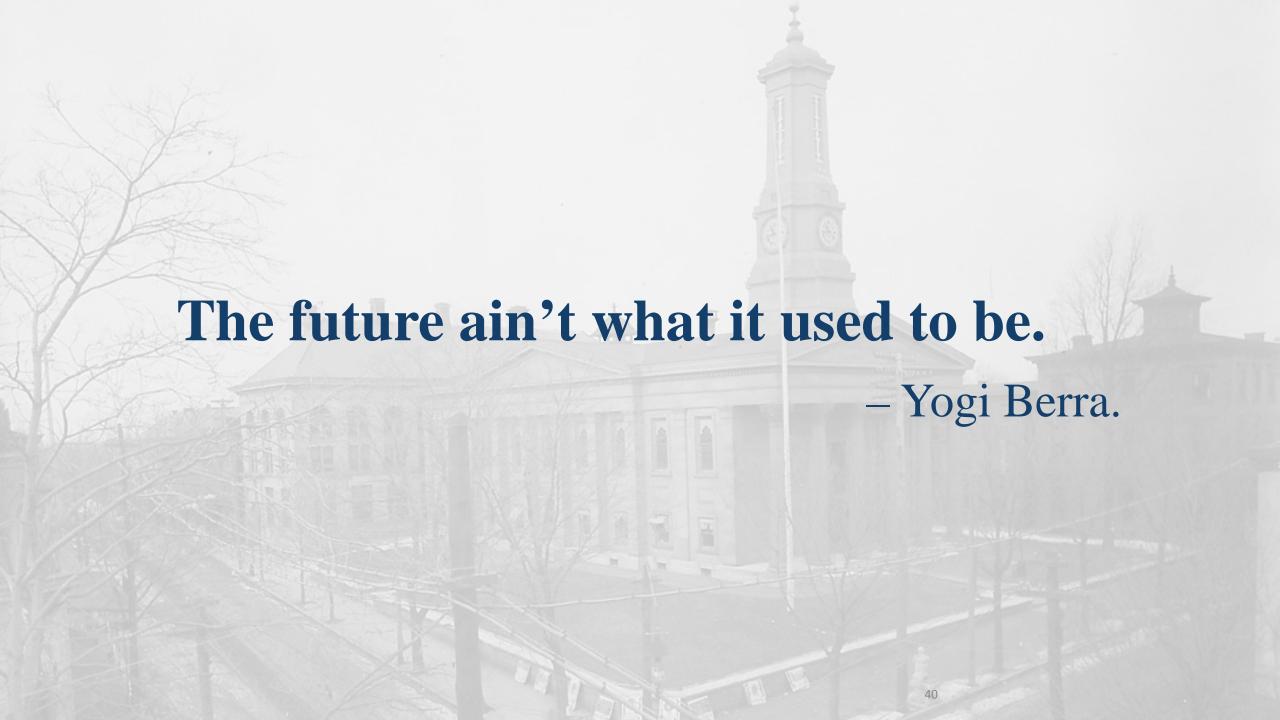


"I thought getting older would take much longer"

Kristopher Thompson

Retired Executive





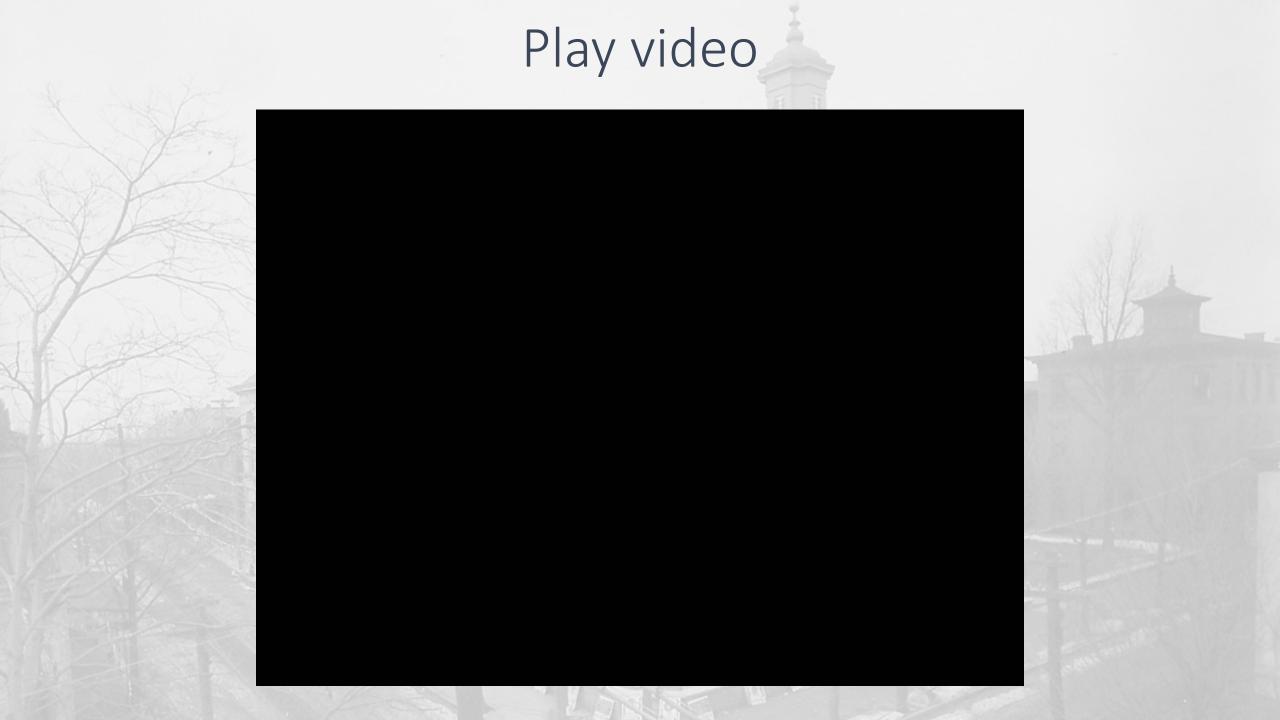


Patti SHOW Brennan

Dedicated to helping improve your net worth.

Listen Now!

https://keyfinancialinc.com/podcast/



To Our Friends at CCEDC:

May the Next Decade Bring You and Your Family: Peace, Prosperity (Lots of it! ©), Good Health and Happiness"





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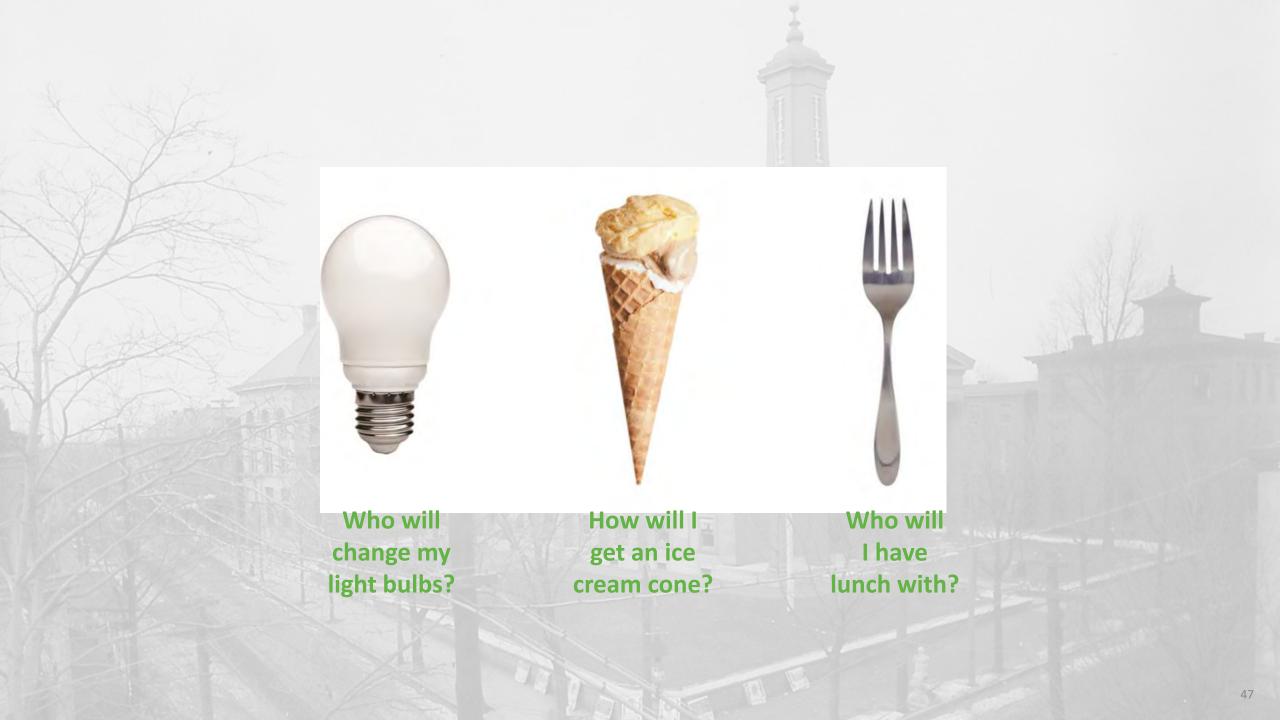
	31-33	Retirement Through the Lens of the Longevity Economy
	29-30	Medicare Strategies
1	26-28	Its Leadership, Not Likership
	25	Alzheimer's- What's Next for the Cure?
	24	Emergency Preparedness
	21	Estate Planning Mistakes
	18-19	Selling Your Business
	13-14-15	Top 3 Questions Anyone Over 45 Should Be Asking
	11	Optimizing the Affordable Care Act
	7	Market Crisis and Portfolio Recovery Rates
	3	Man vs. Machine

Total Debt Outstanding by U.S. Sector

Mortgage debt accounts for the largest share of debt held by the household sector. Gross mortgages debt outstanding has declined over the past 9 years resulting in tepid debt growth for the entire household sector.

Date	Household Debt Outstanding (Total)		Household Mortgages		Household Consumer Credit		Non- Corporate Business		Corporate Businesses		Federal Government		State & Local Governments		Financial Sector		Foreign	
2009	\$	13,953	\$	10,443	\$	2,555	\$	10,160	\$	6,175	\$	8,883	\$	3,121	\$	16,552	\$	1,968
2010	\$	13,737	\$	9,993	\$	2,647	\$	10,022	\$	6,070	\$	10,529	\$	3,206	\$	15,520	\$	2,246
2011	\$	13,588	\$	9,778	\$	2,757	\$	10,277	\$	6,389	\$	11,667	\$	3,168	\$	15,042	\$	2,468
2012	\$	13,589	\$	9,564	S	2,914	S	10,781	\$	6,722	S	12,848	\$	3,170	\$	14,870	S	2,825
2013	\$	13,726	\$	9,481	\$	3,091	\$	11,247	S	7,083	8	13,705	8	3,117	\$	15,019	8	2,971
2014	\$	13,974	\$	9,455	\$	3,313	S	11,978	\$	7,533	\$	14,441	\$	3,079	\$	15,287	\$	3,281
2015	\$	14,167	\$	9,579	\$	3,411	\$	12,796	S	8,104	\$	15,166	\$	3,090	\$	15,262	8	3,228
2016	\$	14,596	\$	9,764	\$	3,644	\$	13,470	\$	8,392	8	16,008	\$	3,123	\$	15,707	\$	3,308
2017	8	15,149	Ş	10,051	\$	3,828	\$	14,413	\$	9,074	\$	16,607	\$	3,122	\$	15,995	\$	3,881
2018	\$	15,619	\$	10,321	\$	4,010	8	15,322	\$	9,658	\$	17,865	\$	3,071	\$	16,322	S	3,960
Net Debt Growth	\$	1,666	\$	(122)	\$	1,455	\$	5,162	\$	3,483	\$	8,982	\$	(51)	\$	(229)	\$	1,992
Rate of Debt Growth		1.26%		-0.13%)	5.13%		4.67%		5.10%		8.07%		-0.18%		-0.15%		8.08%







1. Fifteen years...

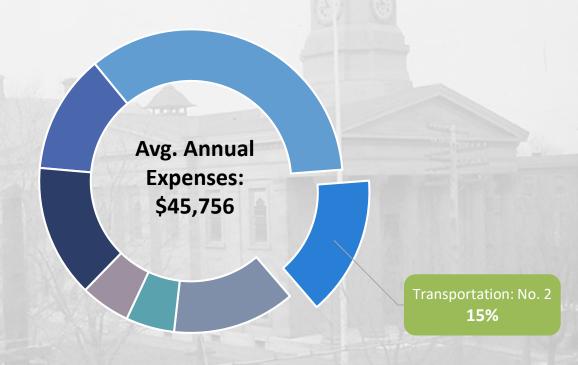
2. "The future ain't what it used to be" (Yogi Berra)

Average Annual Expenditures by Age

65 years and older – Avg. Income \$48,035



- Housing
- Transportation
- Healthcare
- Entertainment
- Cash contributions
- Other



Source: Bureau of Labor Statistics Consumer Expenditure Survey, 2016

"Older Americans who have stopped driving are almost two times more likely to suffer from depression and nearly five times as likely to enter a long-term care facility compared to those who remain behind the wheel."

Michael Green - AAA spokesman

The Cost of Staying Mobile



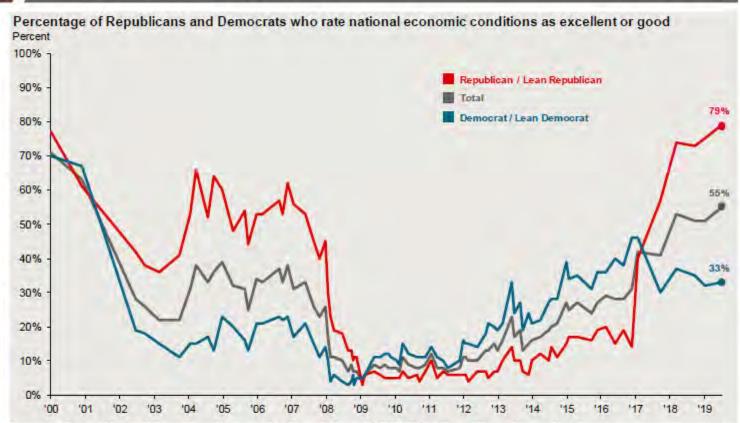
vs. UBER

Large Sedan \$10,879*

*Source: AAA, Your Driving Costs, Statistic is based on driving 15,000 miles per year, 2017.

Consumer confidence by political affiliation

GTM - U.S. | 66

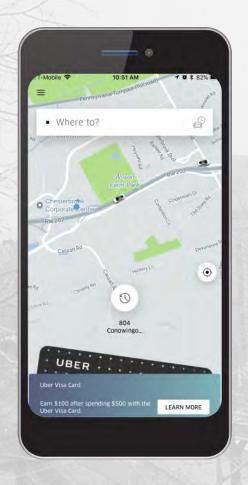


Source: Pew Research Center, J.P. Morgan Asset Management. Pew Research Center, July 2019, "Public's Views of Nation's Economy Remain Positive and Deeply Partisan." Question: Thinking about the nation's economy, How would you rate economic conditions in this country today... as excellent, good, only fair, or poor?

Guide to the Markets – U.S. Data are as of November 30, 2019.

J.P.Morgan Asset Management

Apps that Can Reduce the Need to Drive

















Health & Caregiving Apps





















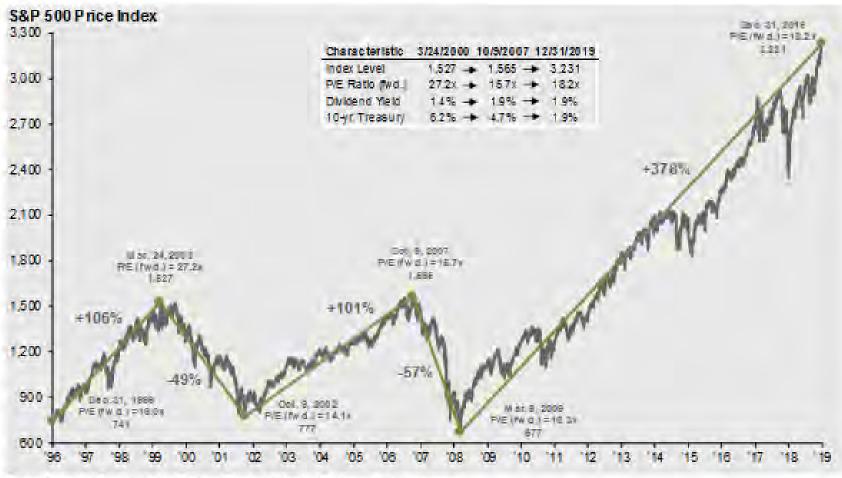




Which half are you?

- According to Prudential's First-Ever Financial Wellness Census, the nation is almost evenly split between people who are doing well financially (46%) and those who are struggling (54%).
- A 2017 study found that when asked how confident they were about their retirement security 55% responded that they were very confident ((6-7 on a scale of 1-8). Yet in this same group, Only 28.6% passed a financial literacy quiz with a score of 60% or higher! (the mean score was 47%).
- Perception is not enough... You only get to do this <u>once</u>.

Source, Journal of Financial Planning, January 2019. Retirement Income Literacy. A Key to a Sustainable Retirement. Jamie Hopkins, JD, LLM CFP and John Pearce, Phd.



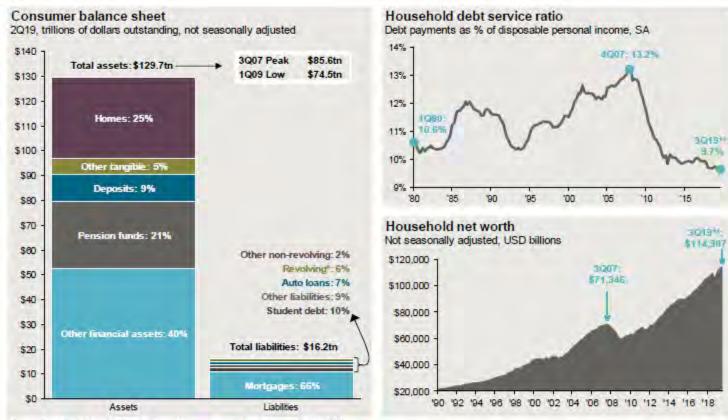
Source: Compustat, FactSet, Federal Reserve, Standard & Poor's, J.F. Morgan Asset Management.

Dividend yield is calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by Compustat. Forward price to earnings ratio is a bottom-up calculation based on the most recent 8&P 500 index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. Returns are cumulative and based on 8&P 500 index price movement only, and do not include the refusement of dividends. Past performance is not indicative of future returns.

Gwide to the Markets—U.S. Data are as of December 31, 2019.



Есопоту



Source: FactSet, FRB, J.P. Morgan Asset Management; (Top and bottom right) BEA.
Data include households and nonprofit organizations. SA – seasonally adjusted. 'Revolving includes credit cards. Values may not sum to 100% due to rounding. "'3Q19 figures for debt service ratio and household net worth are J.P. Morgan Asset Management estimates.

Guide to the Markets – U.S. Data are as of November 30, 2019.



How Anchors Influence Us

Hidden Anchor





A salesman asks if you think the car is worth more or less than \$50,000.

Your estimate will be closer to \$50k than it would be otherwise.



A real estate agent shows you the most expensive house first.

All other homes seem fairly priced by comparison.



A charity asks for \$1,000 vs. \$50.

A larger ask results in larger donations.



A restaurant offers suggested tipping amounts.

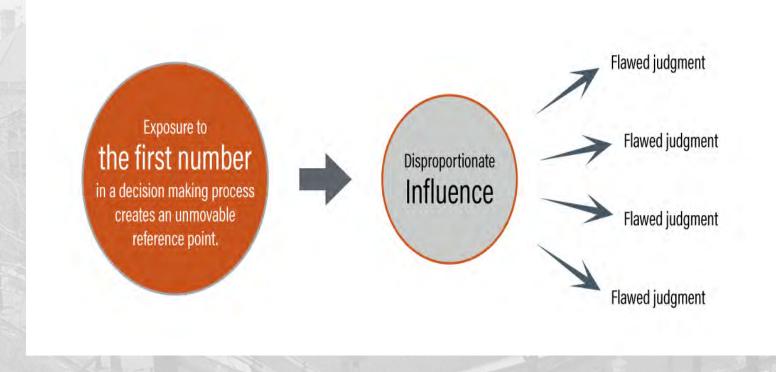
You'll be more likely to choose an offered percentage than to come up with your own amount or to not tip at all.



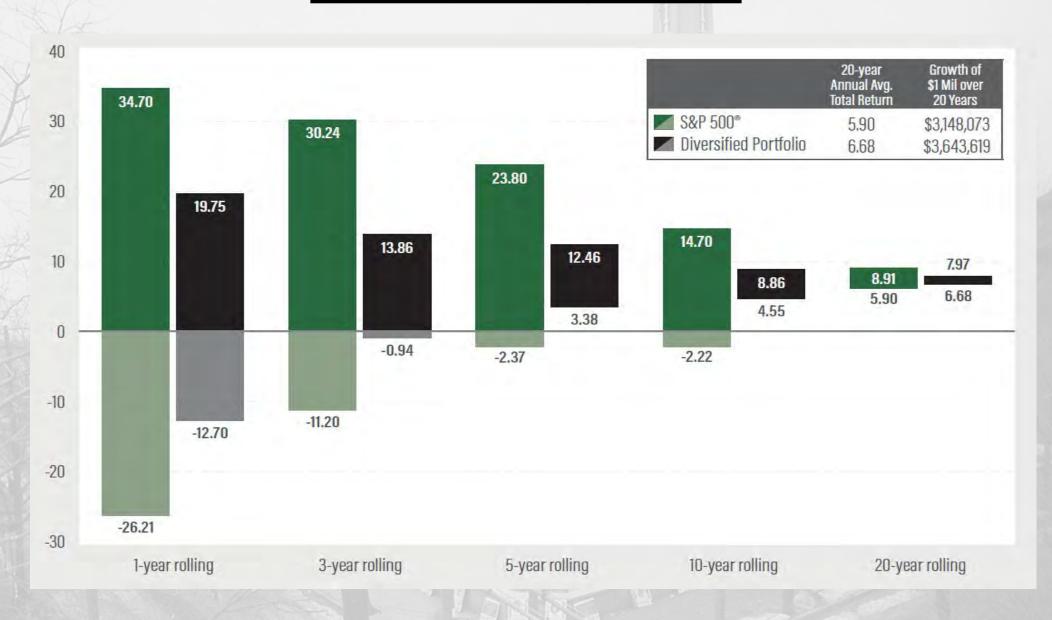
A price tag shows an original price of \$150, now reduced to \$85.

You'll consider the item a bargain, regardless of its true worth.

Beware of Anchors!



Risk....Relative to Time



Twenty Years of Rolling Returns



