

Silicon Valley Chapter American Association of Individual Investors

Fred's Financial Planning Workshops Investing ... Part 1

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Please check us out!

- Chapter website: www.siliconvalleyaaii.org
- Meetups: www.meetup.com/AAII-Silicon-Valley-Meetup
- Facebook: www.facebook.com/sv.aa
- YouTube Channel

www.youtube.comchannelUC4GepcU8lzx8rZMaWNBeJtA

- AAll National website: www.aaii.com
- My email address: fred.svaaii@gmail.com

Our Next Event



and Special Interest Group Webcasts

- Estate Planning: James Ward
 - Saturday October 10th at 9:00am; webcast only
- Investing Discussion Group
 - Lynn Gillette: Fourth Monday of each month at 6:30pm
- Computerized-Mechanical Investing Group
 - Bill Paseman, Don Mauer: First Thursday of each month at 6:30pm
- Financial Planning Discussion Group
 - Fred Smith: Second Wednesday of each month at 6:30pm
- Fintech/Realtech Discussion Group
 - Roland Chow: To be determined.

Financial Planning Workshops

AAII Local Chapters SILICON

We cover a full range of topics in the cycle:

- Financial Planning ... The Big Picture
- Investing I: Modern Portfolio Theory, Building a diversified portfolio
- Investing II: Efficient Market Hypothesis; Can you beat the market?
- Taxes: TRJA, SECURE Act, Tax diversification, Asset location, QCDs
- Retirement Planning I: Tax-advantaged plans, RMDs
- Retirement Planning II: Safe withdrawal rates, Bengen's 4% rule
- Risk Management/Insurance: Annuities, Long-term care, Litigation
- Social Security and Medicare: Claiming strategies, Medicare traps
- Estate Planning: Probate, Executor/trustee duties, Philanthropy
 Wrap-up: Case study reviewing previous material



Overview for Today's Workshop

- The 5-step investing process
- Asset class characteristics
- Modern Portfolio Theory
- Building simple multi-asset portfolios



The 5-Step Investing Process

- **1.** Define your Personal Investor Profile
- **2.** Document your Investor Policy Statement
- **3.** Design your personalized portfolio
- 4. Implement your portfolio
- 5. Review and rebalance periodically



First know thyself !

• "If you don't know who you really are,

the stock market is an expensive place to find out."

Adam Smith (1722 – 1790)

1. The Personal Investor Profile, PIP

- Who am I?
 - Age, Marital status, Retired, Mortgage etc.
- Time horizon?
 - Short-term goals, long-term goals
- Risk tolerance?
 - Eat well versus sleep well decision
 - Questionnaires at Schwab, Vanguard, Fidelity, etc.
- Income needs?

Need to generate income, capital gains

- Tax status?
 - FIT and SIT brackets, AMT status





Techniques to Control Risk

- Diversification of asset classes
 - Cash / Bonds / Stocks
 - Domestic / International
- Tax diversification
 - Taxable, tax-deferred and tax-free accounts
- Time diversification
 - Dollar cost averaging
 - Value averaging

Dollar Cost Averaging



Invest a fixed \$ amount at equal periods

<u>Mont</u>	<u>h \$Amt</u>	<u>SharePr</u>	<u>#Shares</u>	TotalSh	<u>TotalVal</u>
1	\$1000	\$10	100	100	\$1000
2	\$1000	\$9	111	211	\$1899
3	\$1000	\$8	125	337	\$2696
4	\$1000	\$10	100	437	\$4370
5	\$1000	\$12	83	520	\$6240
6	<u>\$1000</u>	<u>\$11</u>	<u>91</u>	611	\$6721
Total	\$6000	\$10.00	611		

Average cost of purchased shares = \$6000/611 = \$9.83

Value Averaging



Adjust balance each period to target value

<u>Month</u>	<u>\$Amt</u>	<u>SharePr</u>	<u>#Shares</u>	<u>TotalSh</u>	TotalVal
1	\$1000	\$10	100	100	\$1000
2	\$1100	\$9	122	222	\$2000
3	\$1224	\$8	153	375	\$3000
4	\$250	\$10	25	400	\$4000
5	\$200	\$12	17	417	\$5000
6	<u>\$1413</u>	<u>\$11</u>	<u>128</u>	545	\$6000
Total	\$5187	\$10.00	545		

Average cost of purchased shares = \$5187 / 545 = \$9.52



Typical Life Cycle Investing

	Early Career	Mid Career	Late Career	Early Retrmnt	Late Retrmnt
Time Horizon	Long	Long	Long	Long	Medium
Risk Tolerance	High	High	Medium	Low	Low
Income Needs	Νο	Νο	Νο	Yes	Yes
Tax Status	Low	Medium	High	Medium	Low

2. The Investment Policy Statement, IPS



- Outlines the general philosophy and objectives for managing the portfolio
- Sets the rules and limitations
- Defines the asset classes to be used and the broad asset allocation
- Decision on asset location
- Limits on tactical deviations for market conditions
- Documents the rebalancing strategy
- Spells out any prohibitions, e.g. no derivatives

Can you Summarize Your IPS on an Index Card?



- **Example:** Christine Benz, Morningstar
 - Favor equity funds but gradually enlarge bond positions as retirement approaches
 - Hold cash and municipal-bond funds for near-term expenditures
 - Check up once a year; rebalance if asset allocation is +/-10% off target allocation
- Ten words or less: Fred Smith
 - Build a diversified portfolio of cheap index funds; Rebalance annually.

3. Design Your Personalized Portfolio



- Research the asset classes defined in your IPS
 - Example: Which specific funds do you prefer to track U.S. stocks? Real estate? Emerging market?
 - Lowest cost? Least tracking error?, etc.
- Asset allocation
 - Pick an allocation to match your risk tolerance
- Asset location
 - Decide which funds belong in which accounts
 - Fixed income funds in tax-deferred retirement accounts
 - Risky hi-growth funds in tax-free Roth accounts
 - Remaining funds in taxable accounts

Asset Location: Traditional Portfolio Rebalance each account separately



	Traditional IRA, 401(k), etc.	Regular account	Roth IRA
Fixed Income	30%	30%	30%
Conserv. stocks US stocks	50%	50%	50%
Hi-growth stocks Intl. Stocks	20%	20%	20%
Tax status DistributionsTax-deferred Gains taxed as Ord.Income		Taxable Gains taxed as Cap.Gain	Tax-free No taxes



Asset Location: Household Portfolio Rebalance total portfolio

	Traditional IRA, 401(k), etc.	Regular account	Roth IRA
Fixed Income	30%	-	-
Conserv. Stocks US stocks	-	50%	-
Hi-growth stocks Intl. stocks	-	-	20%
Tax status Distributions	Tax-deferred Gains taxed as Ord.Income	Taxable Gains taxed as Cap.Gain	Tax-free No taxes



4. Implement Your Portfolio

- Execute the trades to implement the portfolio for each account
- Accounts may be at different financial institutions
 - Traditional IRAs and Roth IRA at Vanguard
 - Taxable account at Schwab, etc.
- Execute all trades ...
 - ... immediately
 - ... or Dollar cost average
 - ... or Value average

5. Review and Rebalance



- Follow the review strategy defined in your IPS
- For a passive portfolio ...
 - ... calendar driven
 - ... or threshold driven
- For an active portfolio ...
 - ... may be necessary to monitor weekly or even daily
 - ... execute trades as spelled out in your IPS
- Have you met the return projection and risk level defined in your IPS?

Rebalancing Your Portfolio



- Rebalancing is necessary to reduce risk
- Most helpful when it is most difficult Opposite of "Feed the winners and starve the losers"
- Periodic or calendar driven: Rebalance annually Rebalancing more often is not useful
- Threshold or data driven: Rebalance as necessary Check monthly or quarterly, but only rebalance when an actual asset allocation deviates from its strategic value by more than a predetermined amount, say 10% of the strategic value.



Practical Aspects of Rebalancing

• Use cash flows into or out of portfolio to rebalance

e.g. monthly contributions, withdrawals, RMDs, etc.

Do not reinvest dividend distributions

Let dividends accumulate in money market account, then use this to make rebalancing purchases

Many retirement plans offer automatic rebalancing



Asset Classes

- Fixed income
 - Cash and cash equivalents
 - Bonds
- Equities
 - Domestic stocks
 - International stocks
- Alternative investments
 - Real estate investment trusts (REITs)
 - Commodities
 - etc.

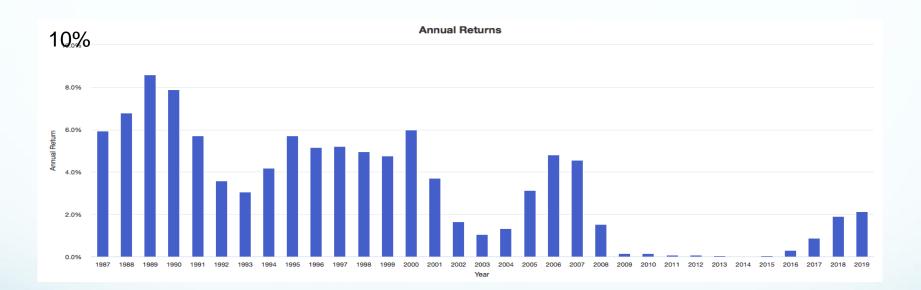
The Brinson Study



- 1986 Study by Gary Brinson et al., Updated 1991 Survey of 82 major pension funds



Cash (1987-2019) portfoliovisualizer.com



Characteristics for Cash and Cash Equivalents (1987-2019)



• Low return

Compound Annual Growth Rate = 3.2%

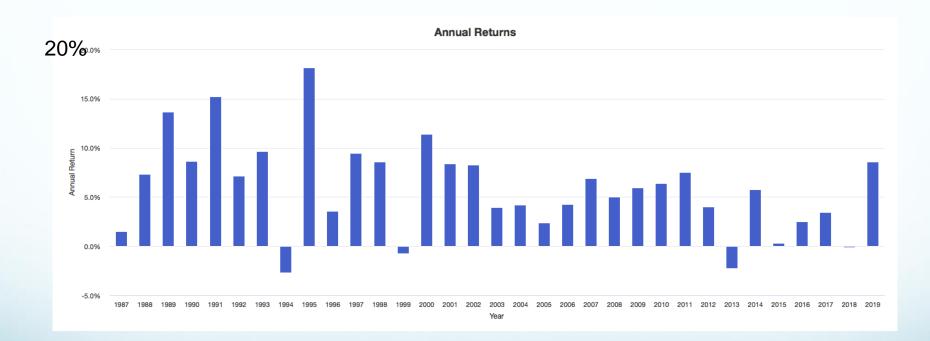
• Low risk

Standard deviation = 0.72%

- Sharpe ratio = N/A
- Best year: 8.61% (1989)
- Worst year: 0.03% (2014)
- Number of down years: 0/33



Total U.S. Bond Market (1987 – 2019) portfoliovisualizer.com



Characteristics for Total Bond Market (1987-2019)



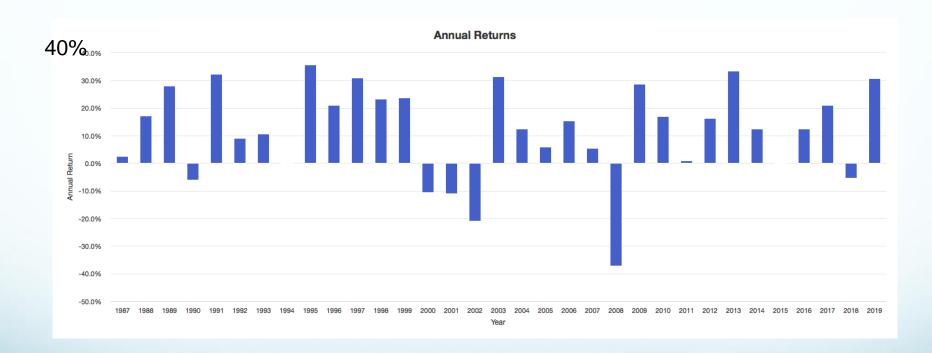
• Higher return than cash

Compound Annual Growth Rate = 5.9%

- Higher risk Standard deviation = 3.8%
- Sharpe ratio = 0.71
- Best year: 18.0% (1995)
- Worst year: -2.3% (2013)
- Number of down years: 4/33 = 12%



Total U.S. Stock Market (1987 – 2019) portfoliovisualizer.com



Characteristics for Total Stock Market (1987-2019)

- Higher return than cash or bonds Compound Annual Growth Rate = 10.3%
- Significantly higher risk Standard deviation = 15.0%
- Sharpe ratio = 0.53
- Best year: 35.8% (1995)
- Worst year: -37.0% (2008)
- Number of down years: 7/33 = 21%



Modern Portfolio Theory



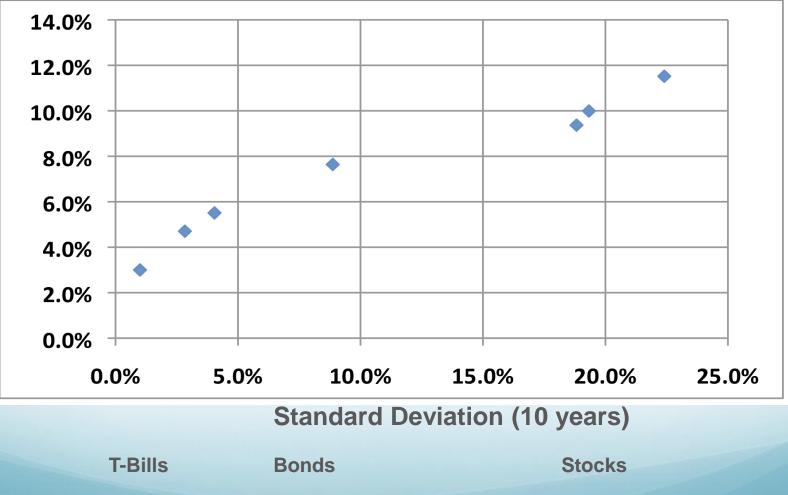
• Theory on how risk-averse investors can construct a portfolio to maximize the expected return for a given level of market risk

• First formulated by Harry Markowitz in 1952

 Further developed by Bill Sharpe et al over the next two decades



Risk and Return are Correlated





The Third Dimension ... Correlation

- Total return, R
- Standard deviation, S
- Correlation, C

Measures how well two assets track each other

- C = 1 for perfect tracking, i.e. zig and zag together
- C = 0 for no correlation
- C = -1 for perfect negative correlation
 - i.e. one asset zigs every time the other zags



 For a portfolio, P, with 2 risky assets, A and B with expected total returns R_A and R_B, and standard deviations S_A and S_B and correlation C_{AB} and weights W_A and W_B in the portfolio

 $\mathbf{R}_{\mathbf{P}} = \mathbf{W}_{\mathbf{A}} \times \mathbf{R}_{\mathbf{A}} + \mathbf{W}_{\mathbf{B}} \times \mathbf{R}_{\mathbf{B}}$

 $S_{P} = SqRt\{(W_{A} \times S_{A})^{2} + (W_{B} \times S_{B})^{2} + 2 \times W_{A} \times S_{A} \times W_{B} \times S_{B} \times C_{AB}\}$



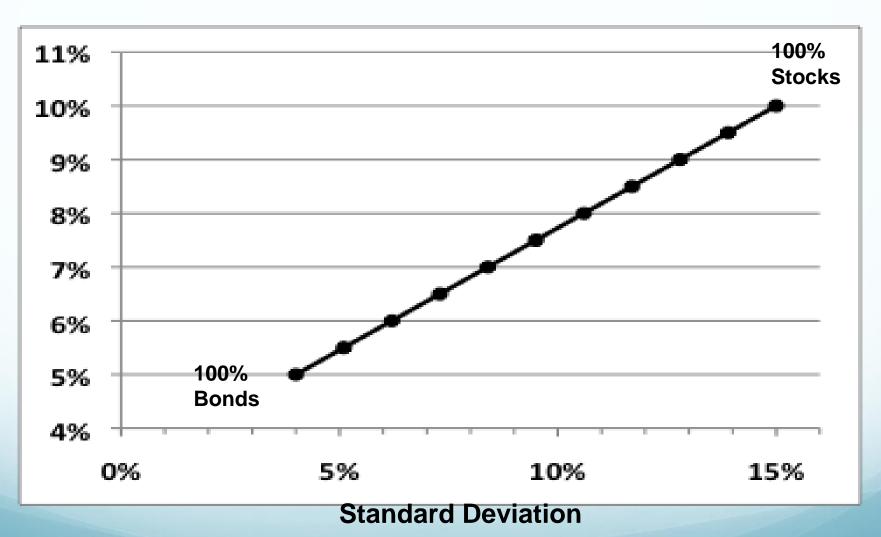


Simple Portfolio with 2 Risky Assets

- First asset (e.g. a bond fund)
 - Return = 5%
 - Standard deviation = 4%
- Second asset (e.g. a stock fund)
 - Return = 10%
 - Standard deviation = 15%
- Weights: Vary from 0, 10%, 20% ... 100%
- Correlation: Vary from +1.0, +0.5, 0, -0.5, -1.0

2 Assets: Correlation = 1.0

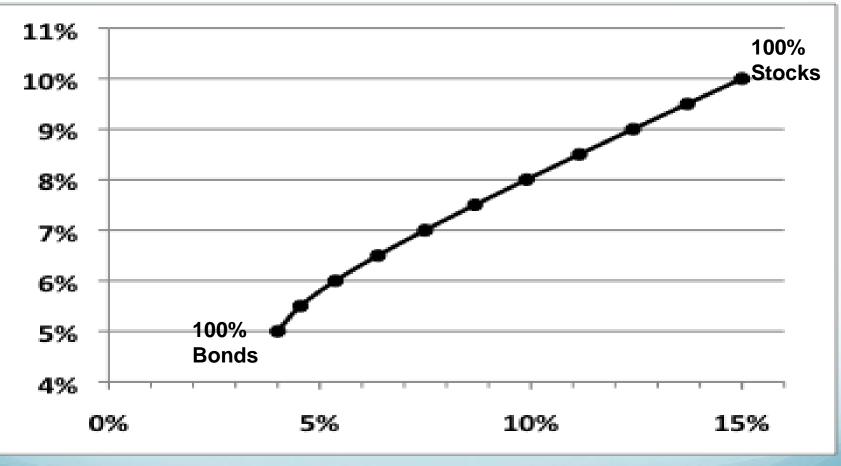




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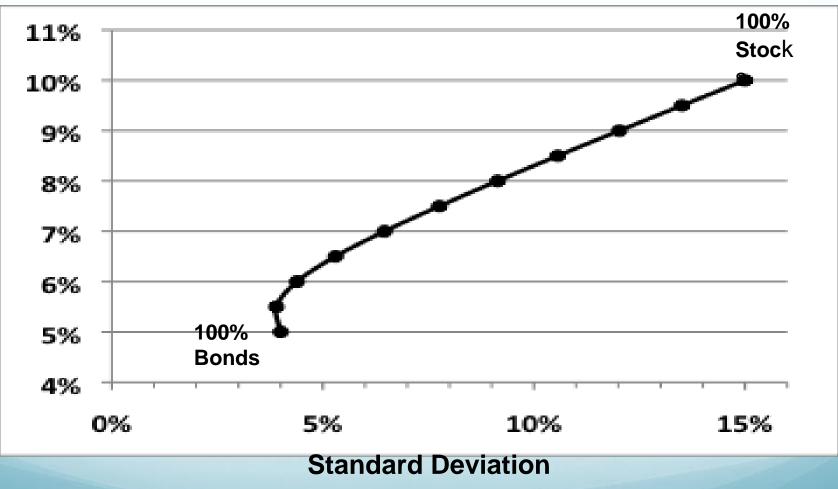
2 Assets: Correlation = 0.5



Standard Deviation

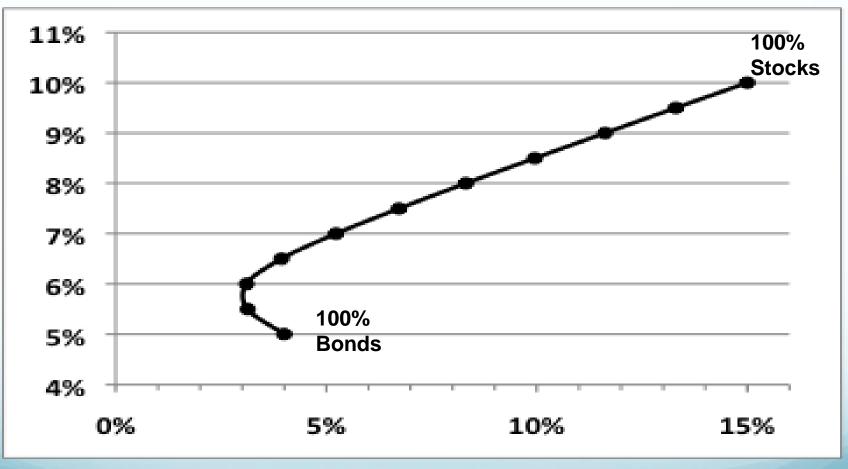


2 Assets: Correlation = 0





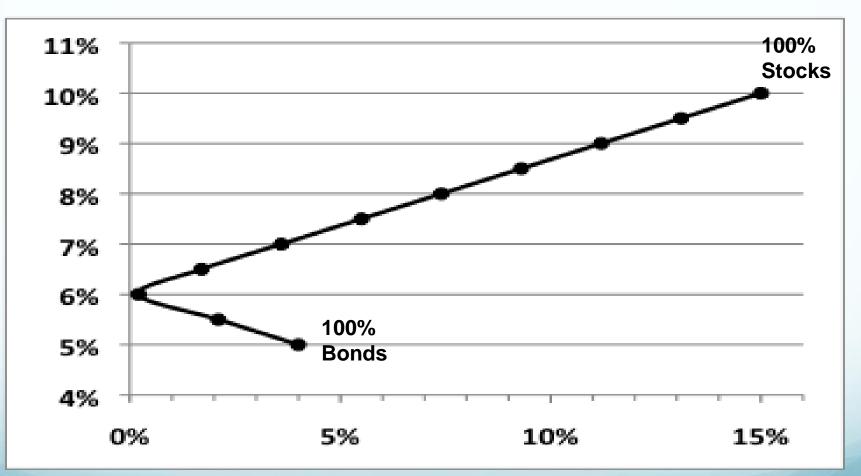
2 Assets: Correlation = -0.5



Standard Deviation

2 Assets: Correlation = -1.0





Standard Deviation

40

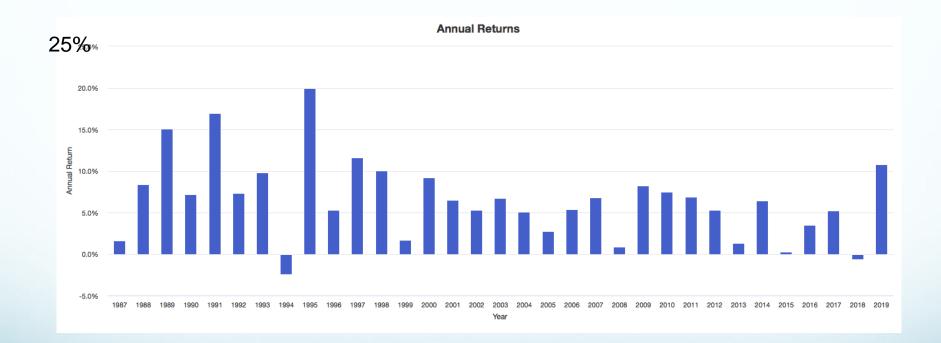


How Well Does MPT Work in Practice?

- Let's look at simple portfolios comprising the total US bond and stock funds we examined earlier
- Portfolio 1
 - 90% Total US bond fund
 - 10% Total US stock fund
- Portfolio 2
 - 30% Total US bond fund
 - 70% Total US stock fund

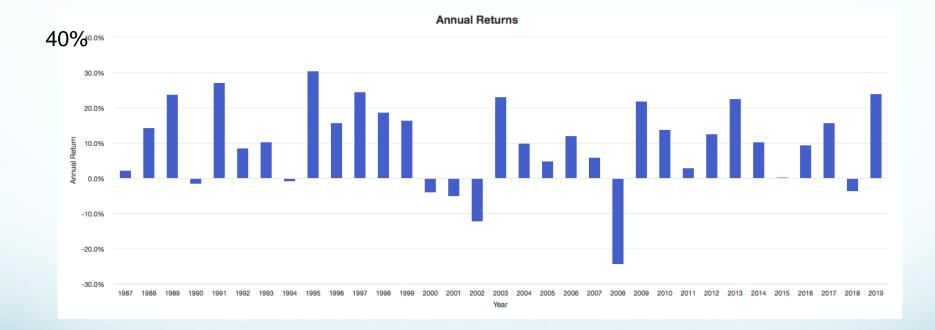


Simple 2-Asset Portfolio 1 90% Bond Market + 10% Stock Market





Simple 2-Asset Portfolio 2 30% Bond Market + 70% Stock Market





<u>Characteristic data for</u> <u>Simple 2-Asset Portfolios (1987 – 2019)</u>

	Bond Fund	Portfolio 1	Portfolio 2	Stock Fund
Weight Bnd/St	100%/0	90%/10%	30%/70%	0/100%
33yr CAGR	5.9%	6.4%	9.3%	10.3%
Std Deviation	3.8	3.8	10.6	15.0
Sharpe Ratio	0.71	0.85	0.60	0.53
US Mkt Corr.	0.06	0.45	0.99	1.00
Best Year	18.2%	19.9%	30.5%	35.8
Worst year	-2.7%	-2.4%	-24.4%	-37.0
# Down years	4	2	7	7



How Can We Diversify Further?



• Replace Total US bond fund

with short-term and intermediate term bonds

• Replace Total US stock fund

with large/small cap, value/growth index funds

- Add real estate index, commodity index funds
- Add international index funds
 - Developed markets, emerging markets





The Callan Periodic Table of Investment Returns

Annual Returns for Key Indices Ranked in Order of Performance (2000–2019)

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Real	U.S.	Glbl ex-	Emerging	Real	Emerging	Real	Emerging	U.S.	Emerging	Small Cap	U.S.	Real	Small Cap	Real	Large	Small Cap	Emerging	Cash	Large
Estate	Fixed	U.S.	Market	Estate	Market	Estate	Market	Fixed	Market	Equity	Fixed	Estate	Equity	Estate	Cap	Equity	Market	Equivalent	Cap
13.84%	Income 8.43%	Fixed 22.37%	Equity 55.82%	37.96%	Equity 34.00%	42.12%	Equity 39.38%	Income 5.24%	Equity 78.51%	26.85%	Income 7.84%	27.73%	38.82%	15.02%	Equity 1.38%	21.31%	Equity 37.28%	1.87%	Equity 31.49%
U.S.	High Yield	U.S.	Small Cap	Emerging	Real	Emerging	Dev ex-	Gibl ex-	High Yield	Real	High Yield	Emerging	Large	Large	U.S.	High Yield	Dev ex-	U.S.	Small Cap
Fixed	righ neiu	Fixed	Equity	Market	Estate	Market	U.S.	U.S.	righ field	Estate	nigir neiu	Market	Cap	Cap	Fixed	гиуп тека	U.S.	Fixed	Equity
Income		Income	and a second second	Equity		Equity	Equity	Fixed				Equity	Equity	Equity	Income		Equity	Income	
11.63%	5.28%	10.26%	47.25%	25.55%	15.35%	32.17%	12.44%	4.39%	58.21%	19.63%	4.98%	18.23%	32.39%	13.69%	0.55%	17.13%	24.21%	0.01%	25.52%
Cash	Cash	Real	Real	Dev ex-	Dev ex-	Dev ex-	Gibl ex-	Cash	Real	Emerging	Gibl ex-	Dev ex-	Dev ex-	U.S.	Cash	Large	Large	High Yield	Dev ex-
Equivalent	Equivalent	Estate	Estate	U.S.	U.S.	U.S.	U.S.	Equivalent	Estate	Market	U.S.	U.S.	U.S.	Fixed	Equivalent	Сар	Сар		U.S.
6.18%	4.42%	2.82%	40.69%	Equity 20.38%	Equity 14.47%	Equity 25.71%	Fixed 11.03%	2.06%	37.13%	Equity 18.88%	Fixed 4.36%	Equity 16.41%	Equity 21.02%	Income 5.97%	0.05%	Equity 11.96%	Equity 21.83%	-2.08%	Equity 22.49%
Small Cap	Small Cap	Cash	Dev ex-	Small Cap	Large	Small Cap	U.S.	High Yield	Dev ex-	High Yield	Large	Small Cap	High Yield	Small Cap	Real	Emerging	Small Cap	Gibl ex-	Real
Equity	Equity	Equivalent	U.S.	Equity	Cap	Equity	Fixed	ingit theis	U.S.		Cap	Equity	ngn nois	Equity	Estate	Market	Equity	U.S.	Estate
			Equity	100	Equity		Income		Equity		Equity		-	10,000		Equity		Fixed	
-3.02%	2.49%	1.78%	39.42%	18.33%	4.91%	18.37%	6.97%	-26.16%	33.67%	15.12%	2.11%	16.35%	7.44%	4.89%	-0.79%	11.19%	14.65%	-2.15%	21.91%
Gibl ex-	Emerging	High Yield	High Yield	Gibl ex-	Small Cap	Large	Large	Small Cap	Small Cap	Large	Cash	Large	Real	High Yield	Dev ex-	Real	Glbl ex-	Large	Emerging
U.S. Fixed	Market Equity			U.S. Fixed	Equity	Cap Equity	Cap Equity	Equity	Equity	Cap Equity	Equivalent	Cap Equity	Estate		U.S. Equity	Estate	U.S. Fixed	Cap Equity	Market Equity
-3.91%	-2.61%	-1.37%	28.97%	12.54%	4.55%	15.79%	5.49%	-33.79%	27.17%	15.06%	0.10%	16.00%	3.67%	2.45%	-3.04%	4.06%	10.51%	-4.38%	18.44%
High Yield	Glbl ex-	Emerging	Large	High Yield	Cash	High Yield	Cash	Large	Large	Dev ex-	Small Cap	High Yield	Cash	Cash	Small Cap	Dev ex-	Real	Real	High Yield
	U.S.	Market	Сар	No.	Equivalent		Equivalent	Cap	Сар	U.S.	Equity	and the second second	Equivalent	Equivalent	Equity	U.S.	Estate	Estate	Contraction of the second
1 and 1	Fixed	Equity	Equity	1000				Equity	Equity	Equity						Equity			Conservation of the
-5.86%	-3.75%	-6.16%	28.68%	11.13%	3.07%	11.85%	5.00%	-37.00%	26.47%	8.95%	-4.18%	15.81%	0.07%	0.03%	-4.41%	2.75%	10.36%	-5.63%	14.32%
Large	Real	Dev ex- U.S.	Gibl ex- U.S.	Large	High Yield	Gibl ex- U.S.	High Yield	Devex- U.S.	Gibi ex- U.S.	U.S.	Real	U.S. Fixed	U.S.	Emerging	High Yield	U.S. Fixed	High Yield	Small Cap	U.S.
Cap Equity	Estate	Equity	Fixed	Cap Equity		U.S. Fixed		Equity	U.S. Fixed	Fixed Income	Estate	Income	Fixed Income	Market Equity		Income		Equity	Fixed Income
-9.11%	-3.81%	-15.80%	19.36%	10.88%	2.74%	8.16%	1.87%	-43.56%	7.53%	6.54%	-6.46%	4.21%	-2.02%	-2.19%	-4.47%	2.65%	7.50%	-11.01%	8.72%
Dev ex-	Large	Small Cap	U.S.	U.S.	U.S.	Cash	Small Cap	Real	U.S.	Gibi ex-	Dev ex-	Gibl ex-	Emerging	Gibl ex-	Glbi ex-	Glbl ex-	U.S.	Dev ex-	Gibl ex-
U.S.	Сар	Equity	Fixed	Fixed	Fixed	Equivalent	Equity	Estate	Fixed	U.S.	U.S.	U.S.	Market	U.S.	U.S.	U.S.	Fixed	U.S.	U.S.
Equity	Equity		Income	Income	Income				Income	Fixed	Equity	Fixed	Equity	Fixed	Fixed	Fixed	Income	Equity	Fixed
-13.37%	-11.89%	-20.48%	4.10%	4.34%	2.43%	4.85%	-1.57%	-48.21%	5.93%	4.95%	-12.21%	4.09%	-2.60%	-3.09%	-6.02%	1.49%	3.54%	-14.09%	5.09%
	Dev ex- U.S.	Large Cap	Cash Equivalent	Cash Equivalent	Glbl ex- U.S.	U.S. Fixed	Real Estate	Emerging Market	Cash Equivalent	Cash Equivalent	Emerging Market	Cash Equivalent	Gibi ex- U.S.	Dev ex- U.S.	Emerging Market	Cash Equivalent	Cash Equivalent	Emerging Market	Cash Equivalent
	Equity	Equity	Equivalent	Equivarent	Fixed	Income	Lotato	Equity	Equivarian	Equivalent	Equity	Equivalent	Fixed	Equity	Equity	-quivarein	Equivalent	Equity	Equivalent
	-21.40%	-22.10%	1.15%	1.33%	-8.65%	4.33%	-7.39%	-53.33%	0.21%	0.13%	-18.42%	0.11%	-3.08%	-4.32%	-14.92%	0.33%	0.86%	-14.57%	2.28%

Correlations of Major Asset Classes Portfolio Visualizer 9/1/09 – 8/31/19



Name	Ticker	VTI	vo	VB	SHY	BND	TLT	TIP	MUB	VEU	VSS	vwo	VNQ	DBC	GLD
Vanguard Total Stock Market ETF	VTI	-	0.97	0.95	-0.28	-0.20	-0.48	-0.01	-0.11	0.86	0.84	0.76	0.64	0.55	0.04
Vanguard Mid-Cap ETF	VO	0.97	-	0.97	-0.27	-0.19	-0.46	-0.00	-0.08	0.84	0.84	0.75	0.68	0.52	0.07
Vanguard Small-Cap ETF	VB	0.95	0.97	-	-0.31	-0.24	-0.49	-0.03	-0.13	0.79	0.80	0.70	0.66	0.53	0.04
iShares 1-3 Year Treasury Bond ETF	SHY	-0.28	-0.27	-0.31	-	0.81	0.61	0.63	0.46	-0.15	-0.15	-0.06	0.09	-0.11	0.44
Vanguard Total Bond Market ETF	BND	-0.20	-0.19	-0.24	0.81	-	0.84	0.80	0.72	-0.08	-0.07	-0.00	0.29	-0.16	0.44
iShares 20+ Year Treasury Bond ETF	TLT	-0.48	-0.46	-0.49	0.61	0.84	-	0.59	0.63	-0.41	-0.42	-0.33	0.03	-0.45	0.25
iShares TIPS Bond ETF	TIP	-0.01	-0.00	-0.03	0.63	0.80	0.59	-	0.58	0.13	0.15	0.23	0.36	0.08	0.53
iShares National Muni Bond ETF	MUB	-0.11	-0.08	-0.13	0.46	0.72	0.63	0.58	-	0.00	0.00	0.03	0.31	-0.16	0.26
Vanguard FTSE All-WId ex-US ETF	VEU	0.86	0.84	0.79	-0.15	-0.08	-0.41	0.13	0.00	-	0.96	0.92	0.59	0.61	0.17
Vanguard FTSE All-Wid ex-US SmCp ETF	VSS	0.84	0.84	0.80	-0.15	-0.07	-0.42	0.15	0.00	0.96	-	0.90	0.56	0.64	0.24
Vanguard FTSE Emerging Markets ETF	VWO	0.76	0.75	0.70	-0.06	-0.00	-0.33	0.23	0.03	0.92	0.90	-	0.56	0.58	0.28
Vanguard Real Estate ETF	VNQ	0.64	0.68	0.66	0.09	0.29	0.03	0.36	0.31	0.59	0.56	0.56	-	0.25	0.15
Invesco DB Commodity Tracking	DBC	0.55	0.52	0.53	-0.11	-0.16	-0.45	0.08	-0.16	0.61	0.64	0.58	0.25	-	0.36
SPDR Gold Shares	GLD	0.04	0.07	0.04	0.44	0.44	0.25	0.53	0.26	0.17	0.24	0.28	0.15	0.36	-

The Vanguard "Lazy Portfolios"



	Total Bond Market	Total Stock Market	Intl. Stock Market	REIT
Rick Ferri	40%	60%	-	-
Rick Ferri	40%	40%	20%	-
Rick Ferri	40%	40%	24%	6%
Bill Schulteis	40%	10+10+10+10%	10%	10%
William Bernstein	40%	15+10+5+10	5+5+5%	5%
Frank Armstrong	30%	7+9+6+9%	31%	8%
David Swenson	15+15%	30%	15+10%	15%



To Keep It Really Simple! One-Fund Solutions



Vanguard Life Strategy Funds

	Fixed	Income	<u>Equi</u>	ties
	<u>U.S.</u>	Intl.	<u>U.S.</u>	Intl.
VASIX Income Fund	56%	24%	12%	8%
VSCGX Conservative Growth Fund	42%	18%	24%	16%
VSMGX Moderate Growth Fund	28%	12%	36%	24%
VASGX Growth Fund	14%	6%	48%	32%

• Target Date Funds: 2020, 2025, 2030 ... 2055

• Vanguard, Fidelity, T Rowe Price, etc.



- **1.** Have a long-term investment philosophy.
- 2. Form a prudent asset allocation based on this philosophy.
- 3. Select low-cost funds to represent asset classes in the allocation.
- 4. Maintain this portfolio through all market conditions.
- 5. Don't change the asset allocation due to recent market activity.
- 6. Don't hold back on new investments while waiting for market clarity.

To Probe Further

- Making Sense of Investment Risk, Paul Merriman, AAII Journal, March 2020
- Rebalancing: A Sound Strategy for Limiting Risk, Vanguard, June 2019
- Global Equity Investing, The Benefits of Diversification and Sizing Your Allocation, Vanguard, February 2019
- The Importance of Diversification in Retirement Portfolios, Craig Israelsen, AAII Journal, April 2015
- Portfolio Selection, Harry Markowitz, Journal of Finance, 1952
- A Random Walk Down Wall Street, Burton Malkiel, Norton & Co.
- Winning the Loser's Game, Charles Ellis, McGraw-Hill
- Investing at Level 3, James Cloonan, AAII



Useful Websites



- aaii.com Broad selection of investing material
- siliconvalleyaaii.org Previous presentations on various topics
- santaclaracountylib.org/Adults/Business & Money
 Morningstar Research Center, S&P's NetAdvantage, Value Line
- portfoliovisualizer.com Free access to a wide selection of tools
- vanguard.com
 fidelity.com
 schwab.com
- callan.com Callan chart
- bogelheads.org Interesting blog
- obliviousinvestor.com/index-funds/ Mike Piper blog
- rickferri.com/investment-philosophy/ Rick Ferri blog





"Are you ready to start investing or do you want to keep throwing your money away on food, clothing and shelter?"