

# Faith and Finance



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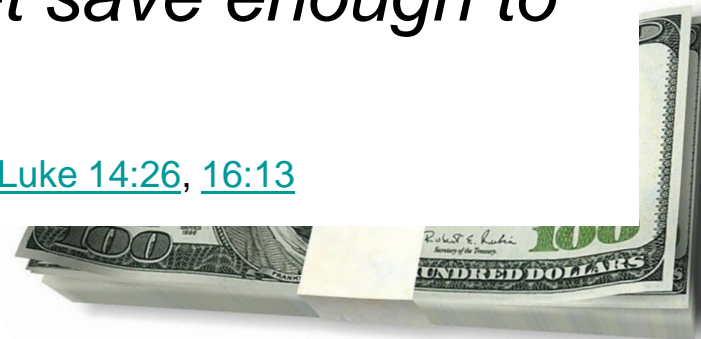




# To Save or Not to Save



- For the love of money is a root of all kinds of evil. Some people, eager for money, have wandered from the faith and pierced themselves with many griefs. ([1 Timothy 6:10](#))
- A good man leaves an inheritance for his children's children, but a sinner's wealth is stored up for the righteous. ([Proverbs 13:22](#))
- *How can one hate\* money, yet save enough to bless generations to come?*

\* "hate" used here in scriptural relative sense. See [Matt. 6:24](#), [Luke 14:26](#), [16:13](#)





# Don't Love Money...

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- 
- Passages on love of money:
    - Whoever loves money never has money enough; whoever loves wealth is never satisfied with his income. This too is meaningless. ([Ecclesiastes 5:10](#))
    - No one can serve two masters. Either he will hate the one and love the other, or he will be devoted to the one and despise the other. You cannot serve both God and Money. ([Matthew 6:24](#))
    - Keep your lives free from the love of money and be content with what you have, because God has said, “Never will I leave you; never will I forsake you.” ([Hebrews 13:5](#))
  - Be content and satisfied, trusting in God.
  - What you love comes first. God and others coming first is the greatest commandment. ([Matthew 22:36-40](#))



# ...but Prosper Through Wisdom

- Proverbs teaches that the wise and diligent (hard-working) tend to prosper. The foolish and lazy tend to become poor.<sup>1</sup> Wealth/prosperity...
  - ...is a gift of God. ([10:22](#)<sup>2</sup>)
  - ...is associated with wisdom ([3:16](#), [8:12-21](#)), righteousness and love ([21:21](#)), humility and fear of the Lord ([22:4](#))
  - ...comes from hard work ([10:4](#), [12:11,24,27](#), [13:4](#), [14:23](#), [18:9](#), [28:19](#)), parental obedience ([3:1-2](#)), and slow saving ([13:11](#)). “Get rich slow!”

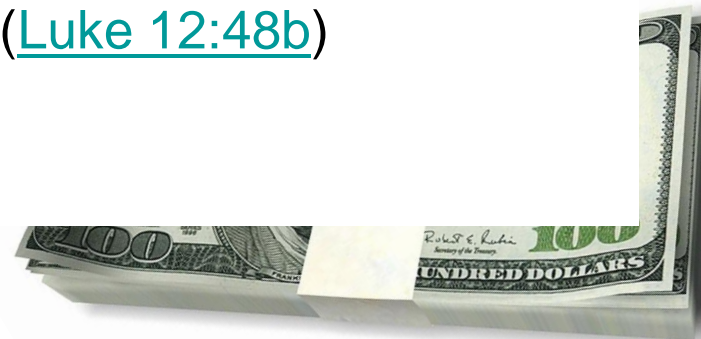
<sup>1</sup> These are not to be understood as *causal* statements. There are hard-working poor people, and foolish and/or lazy wealthy people. Corporate greed and inheritance can account for such cases. Many Proverbs are observations of *correlation*, e.g. “Diligent students get better grades.”

<sup>2</sup> All references here are from the book of Proverbs.



# Give, Save, Spend

- **Give** – Be generous...
  - ... to God who has given all. 10% tithe ([Lev. 27:30](#); [Num. 18:21](#); [Deut. 14:22](#); [Prov. 3:9-10](#))
  - ... to others out of love. ([2 Cor. 9:6-15](#); [Prov. 11:24-25](#))
- **Save** – Be frugal. Live within your means...
  - ... prudently for days beyond “harvest” when there is no work ([Proverbs 6:6-8](#)), Aesop’s ant/grasshopper fable
  - ... generously out of love for descendants ([Proverbs 13:22](#))
- **Spend** – Be a wise steward.
  - Not with selfish motives for pleasure ([James 4:3](#))
  - Resources should be wisely managed ([Luke 12:48b](#))



# Interest

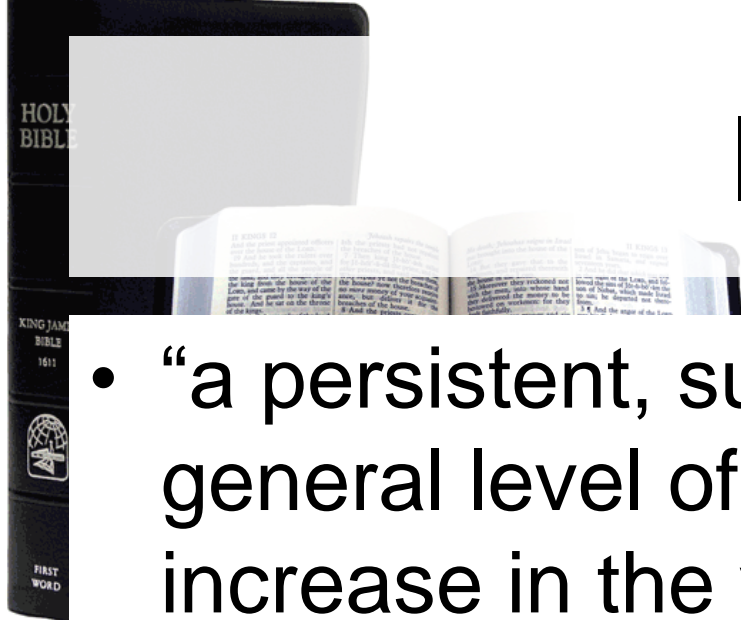
- “a sum paid or charged for the use of money or for borrowing money” ([dictionary.com](https://www.dictionary.com))
- “*Impatience*” and “*interest rate*” were at one point used interchangeably in finance literature (Bernstein, 2002, p.47)
- How much more/less we will pay for something now/later is a measure of our *impatience*.
- Recall that **patience** is a **fruit of the spirit**. ([Gal. 5:22-23a](#))
- Interest is also impacted by *risk* and *inflation*.







# Inflation

- 
- “a persistent, substantial rise in the general level of prices related to an increase in the volume of money and resulting in the loss of value of currency” ([dictionary.com](https://www.dictionary.com), underlines added)
    - Too much money chasing too few goods
    - Same goods, higher price
    - Same money, lower value

# Inflation's Corrosive Effect

**Table 2-2**

**Inflation's Corrosive Effect on Your Money's Purchasing Power**

<b><i>Inflation Rate</i></b>	<b><i>10 Years</i></b>	<b><i>15 Years</i></b>	<b><i>25 Years</i></b>	<b><i>40 Years</i></b>
2%	-18%	-26%	-39%	-55%
4%	-32%	-44%	-62%	-81%
6%	-44%	-58%	-77%	-90%
8%	-54%	-68%	-85%	-95%
10%	-61%	-76%	-91%	-98%

(Tyson, 2006, p.34)

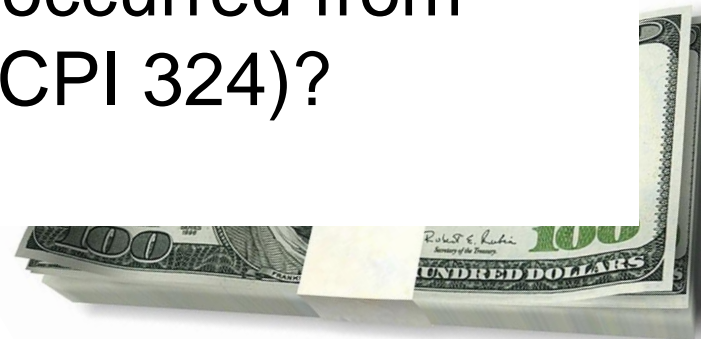
3% inflation  
Over 40 years  
→ -69%







# Inflation Data


- CPI – consumer price index
  - U.S. Dept. of Labor, Bureau of Labor Statistics
  - <https://www.bls.gov/cpi/tables/>
  - [https://inflationdata.com/Inflation/Consumer\\_Price\\_Index/HistoricalCPI.aspx](https://inflationdata.com/Inflation/Consumer_Price_Index/HistoricalCPI.aspx)
- Inflation from time t1 to time t2:  
$$\text{CPI}_{t2} / \text{CPI}_{t1}$$
- How much dollar inflation has occurred from your birth through Dec. 2025 (CPI 324)?





# Stocks versus Bonds

- 
- 
- **Stock:** a share of ownership in a company
    - income through dividends and appreciation
    - **dividend:** portion of profits paid out per share
    - **appreciation:** increase in stock price, reflecting expectation of higher dividend stream
    - “Milk from the cows, eggs from the hens. A stock, by God, for its dividends!” (Bernstein 2002, p.61)
  - **Bond:** a limited-time loan during which the bondholder receives periodic fixed payments, after which the loan is (nominally) repaid



# How to Save?

- Mattress/Piggy Bank/Safe: 0%
- Bank/Credit Union ([nat'l avg.](#) 1/12/2026)
  - 1-Year Certificate of Deposit: 1.9%
  - Money Market Account: 0.43%
- Treasury Bonds: 5%<sup>1</sup>
- Large Company Stocks: 10%<sup>1</sup>
- Other: Real estate, gold, etc.

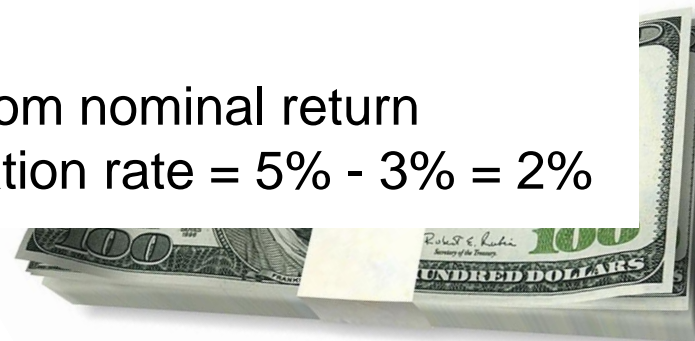
<sup>1</sup> 20<sup>th</sup> century averages (Bernstein, 2002, p. 29)



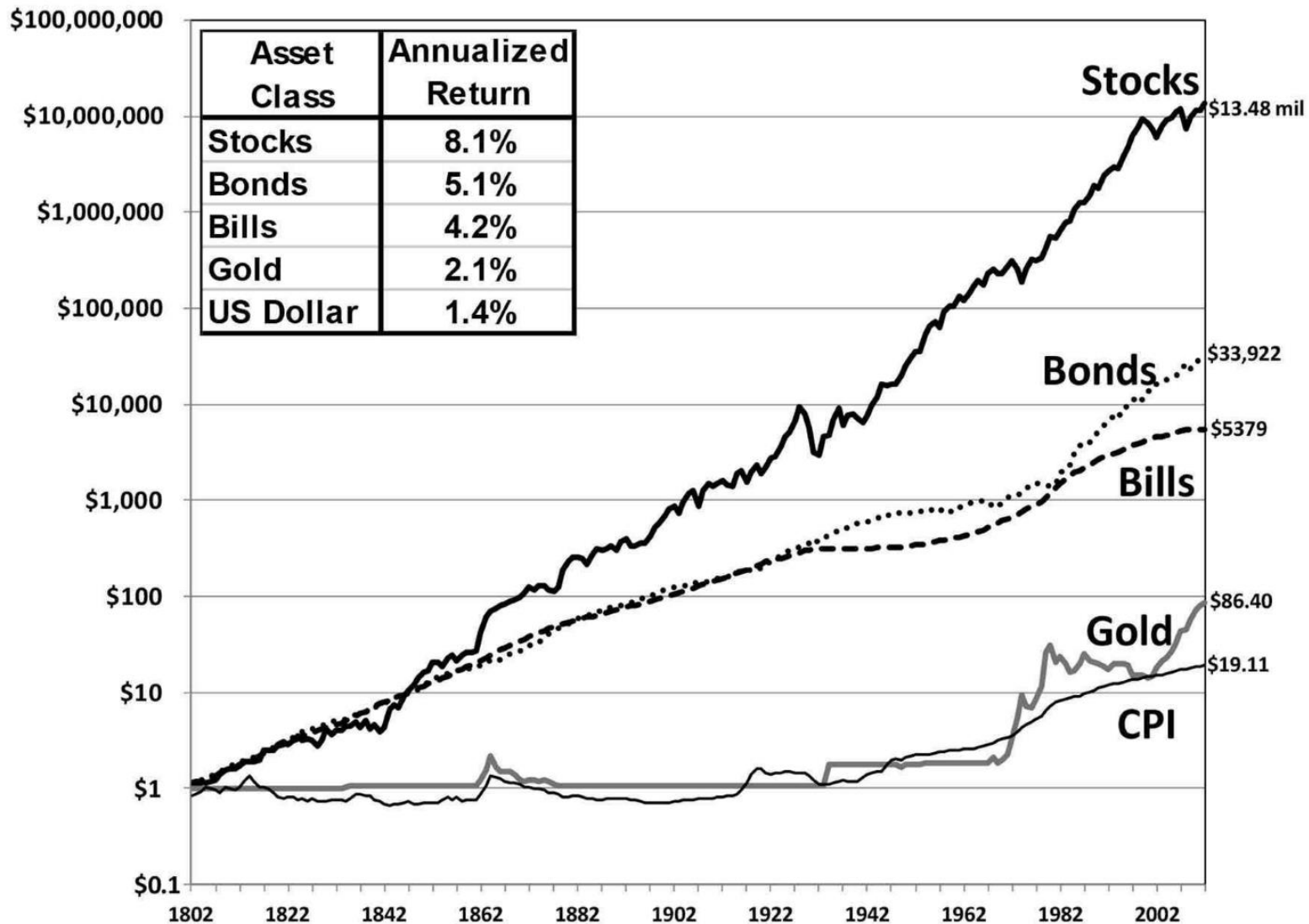


# Real Returns

- **Nominal returns** are simple dollar returns
- **Real returns** are returns *after inflation* (dollar devaluation)
- Example: 3% inflation, 5% nominal return  
\$1.00 invested last year is now \$1.05, but it now takes \$1.03 to buy last year's \$1.00 worth. What's the real return?
  - $(1 + \text{real return}) = (1 + \text{nominal return}) / (1 + \text{inflation rate})$   
 $(1 + \text{real return}) = (1 + .05) / (1 + .03) = 1.05 / 1.03 = \sim 1.0194$   
real return =  $\sim .0194 = \sim 1.94\%$
  - **Easy estimate:** subtract inflation from nominal return  
real return  $\sim$  nominal return – inflation rate = 5% - 3% = 2%

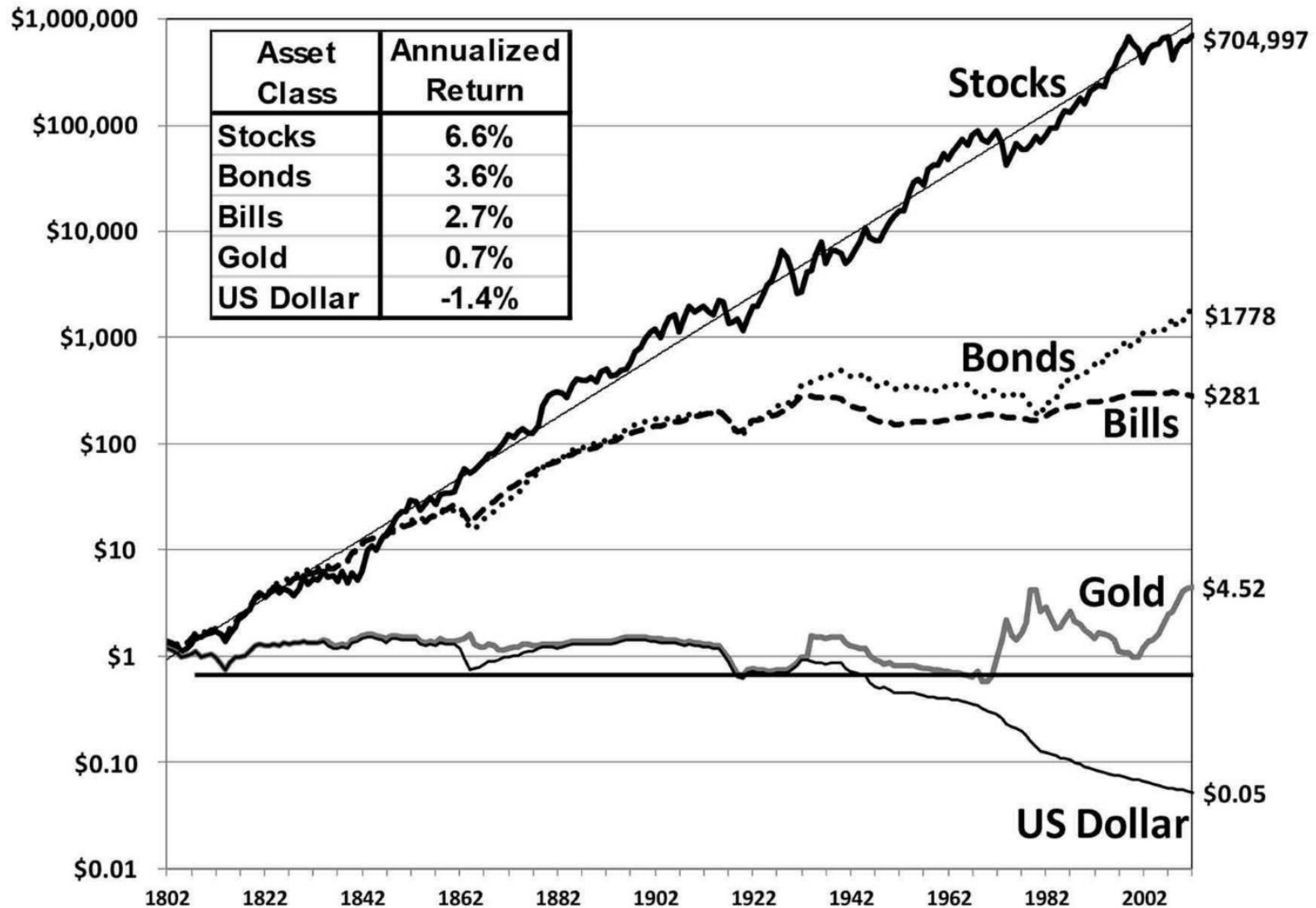


# Historical Nominal Returns



(Seigel, 2014, Fig 5-1)

# Historical Real Returns



(Seigel, 2014, Fig 1-1)





# Re-examining the Options

- Assume 3% inflation<sup>1</sup>. Est. real returns<sup>2</sup>:
- Mattress/Piggy Bank/Safe: **-3%**
- Bank/Credit Union
  - Certificate of Deposit: **-1.1%**
  - Money Market Account: **-2.57%**
- Treasury Bonds: **+2%**
- Large Company Stocks: **+7%**

<sup>1</sup> 20<sup>th</sup> century average (Bernstein, 2002, p. 67)

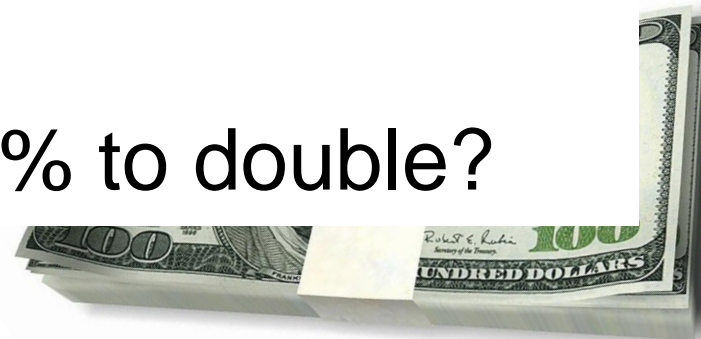
<sup>2</sup> Actual returns: -2.9%, -1.1%, -2.5%, +1.9%, +6.8%





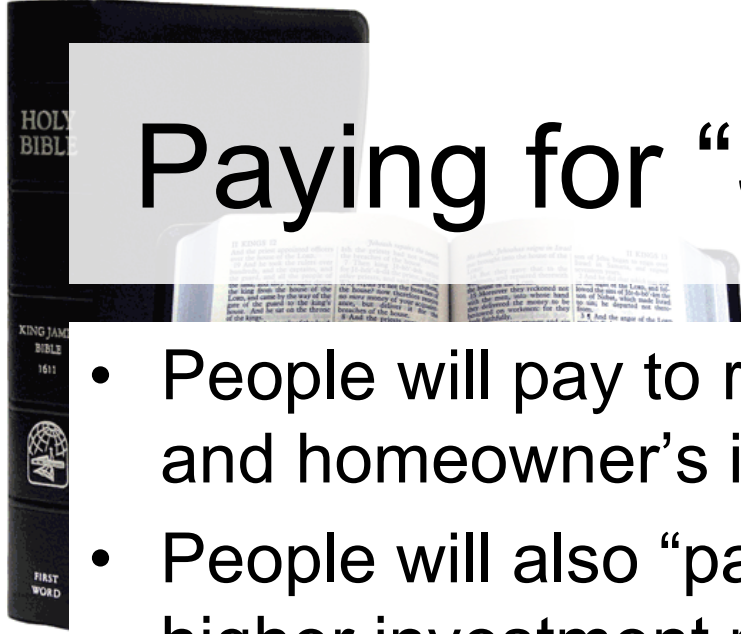
# Rule of 72

- To *estimate* the number of years it will take for an investment to double in real terms, divide the real return rate into 72.
- Treasury Bonds:  $72 / 2 = 36$ 
  - Actual:  $\log 2 / \log 1.02 \approx 35.00$
- Large Company Stocks:  $72 / 7 = \sim 10.3$ 
  - Actual:  $\log 2 / \log 1.07 \approx 10.24$
- Not a bad estimate!
- How many years for real 6% to double?

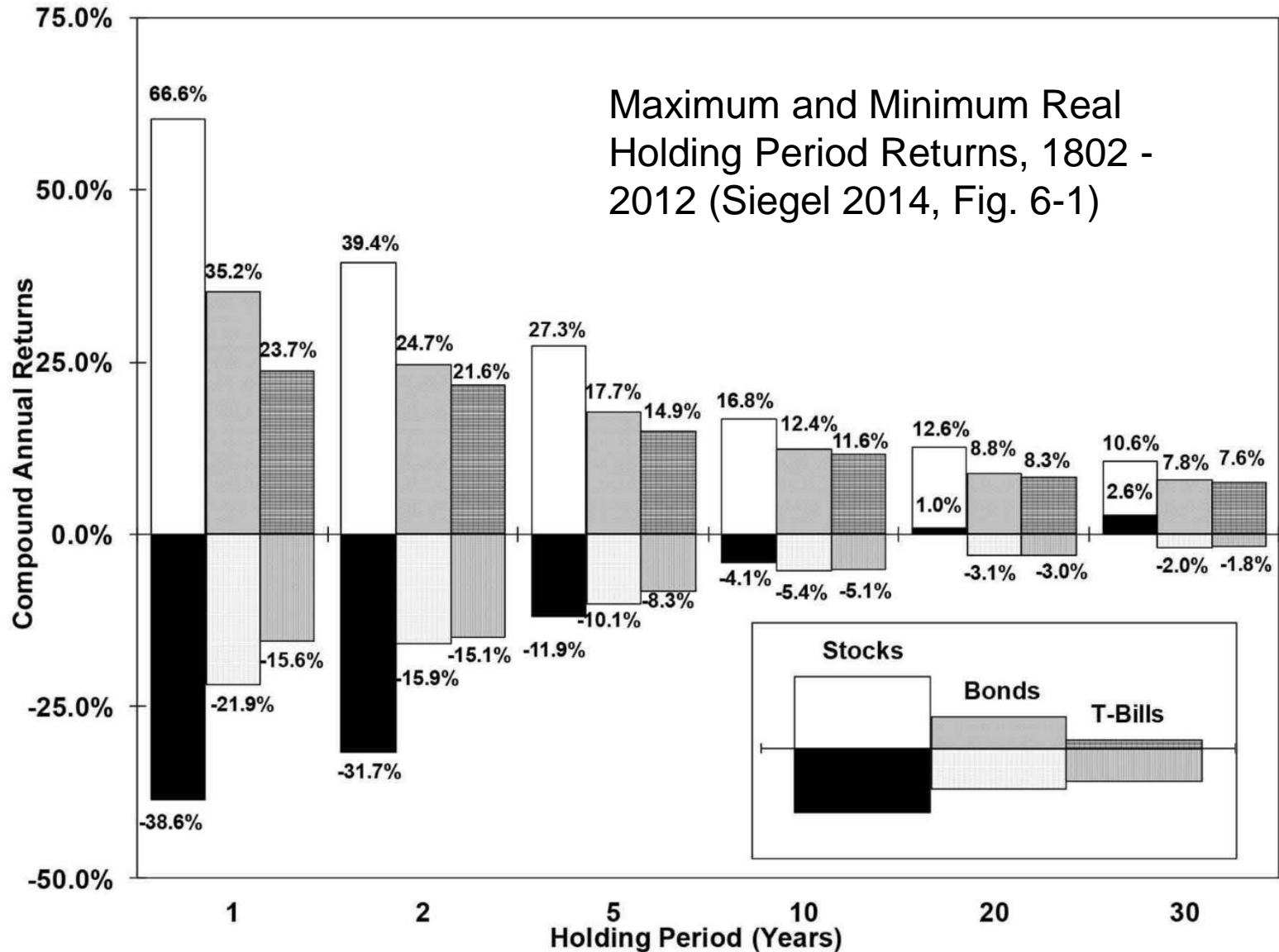




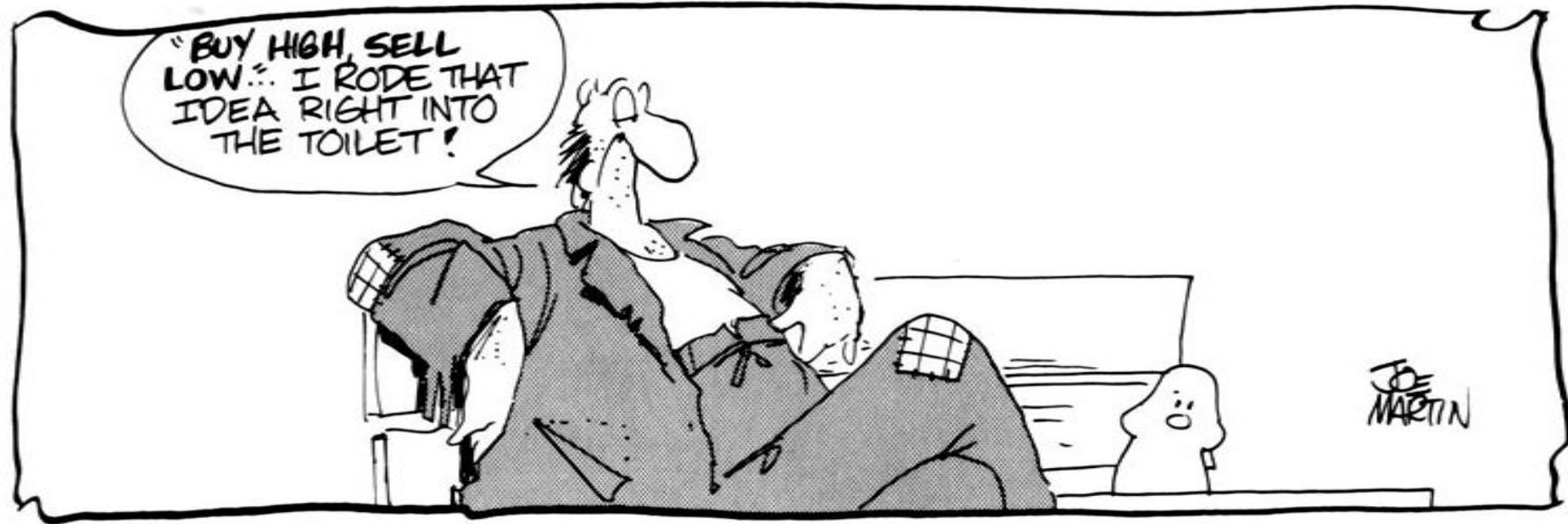
# Paying for “Safety” or “Control”

- 
- People will pay to reduce perceived risk (e.g. auto and homeowner's insurance).
  - People will also “pay” (through lost opportunity of higher investment returns) for “safer” investments.
  - Bear in mind: Prov. 16:9, 19:21; James 4:13-15. In God we trust, not markets, not statistics. God is sovereign.
  - Stock investors are “paid” to face fear of possible loss, which is less likely over longer time periods...

# Risk, Reward, and Time



# Wisdom of the Masses




(Joe Martin, Mr. Boffo – Shrink Wrapped, 1995, p. 134)







# Conformity, Greed, and Fear

- 
- Psychology of investing: following the masses → buy high, sell low, bad performance
  - The market rises “ever higher”
    - Overcome by **greed**, people “buy high”.
    - Investments plunge (“correction”, “bear market”)
  - The market falls “ever lower”
    - Overcome by **fear**, people “sell low”.
    - Investments recover ... after sale.
  - Patient, trusting “buy and hold” investing denies greed and fear.





# Risk Without Reward

- **Mean reversion** – what goes up must come down (and vice versa)
- The broad stock market reverts to a mean (average) growth.
- However, individual stocks do not. Companies begin, grow, and eventually decline and die.
- “Don’t put all your eggs in one basket” (or even 10).





# Mutual Funds, Index Funds, and ETFs

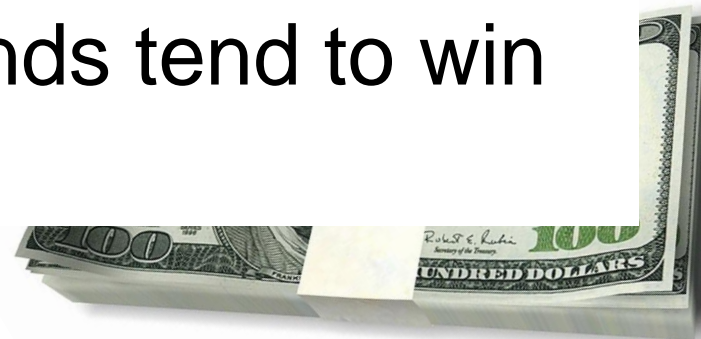
- **Mutual fund** – a collection of stocks managed by investment professionals.
- **Index fund** – *passively managed* collection of all/most stocks of an indexed exchange, sector, country, etc.
- **Exchange Traded Fund (ETF)** – similar to mutual fund, but traded like stocks
- For simplicity, buy *diverse* stock holdings through index funds and/or index fund ETFs



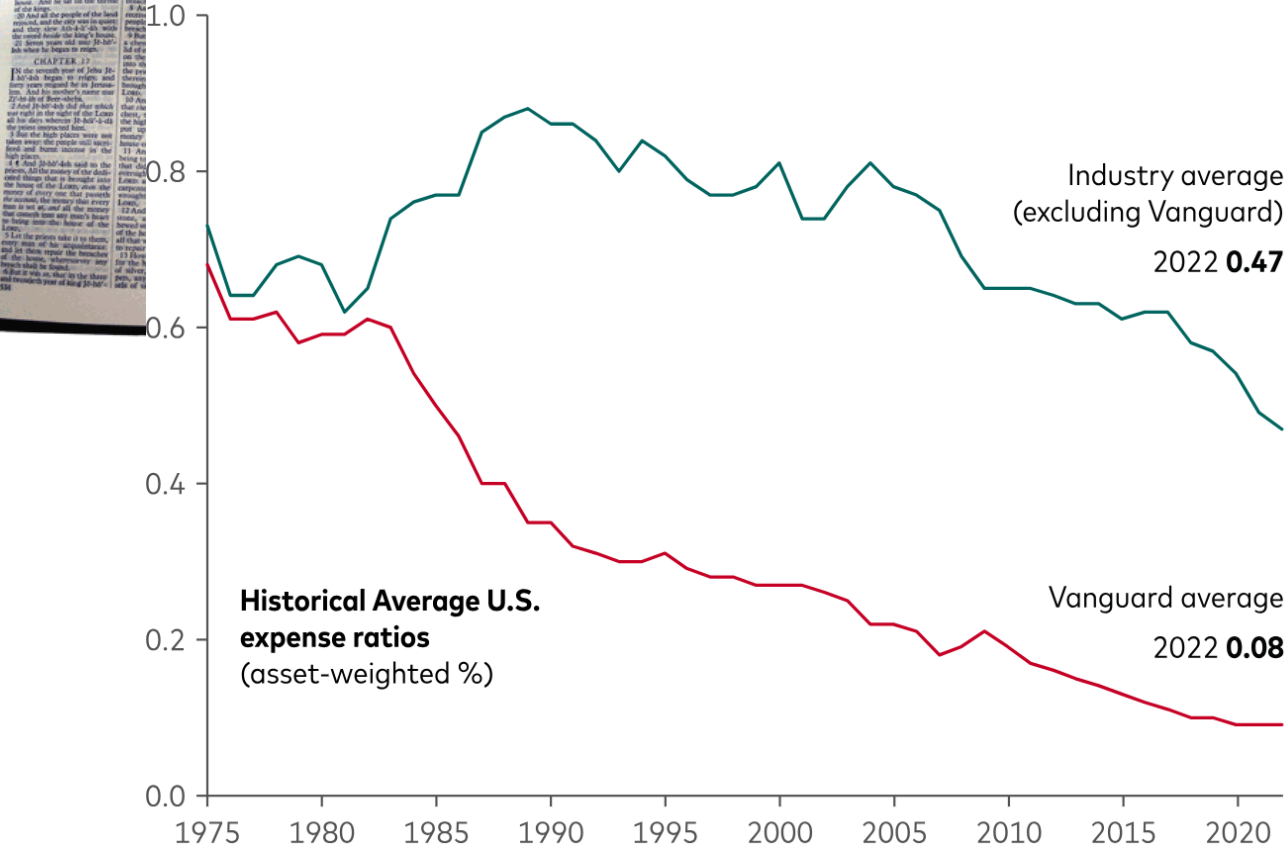


# Investment Costs Matters

- More than 90% of stock trades occur between investment professionals.
- The average professional performance is *the market average*.
- Fund *expenses* then cut into returns.
- Thus, the average fund performs *below* the market average.
- *Diverse, low-cost* index funds tend to win out in the long-run.



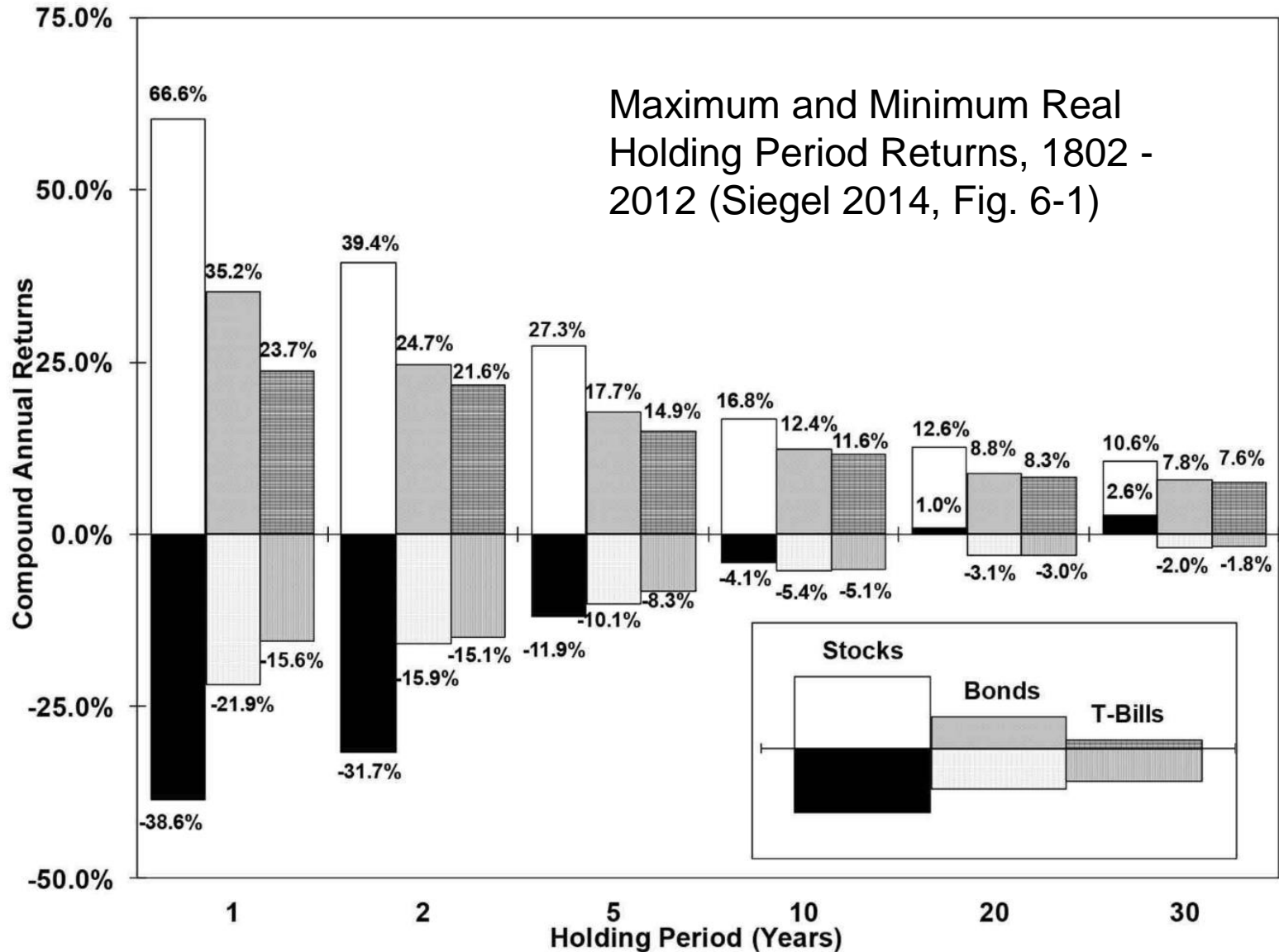
# Vanguard Expense Ratios



From <https://corporate.vanguard.com/content/corporatesite/us/en/corp/how-we-invest/investor-outcomes.html> (June 20, 2023)



# Time Frame Revisited





# Example Portfolio

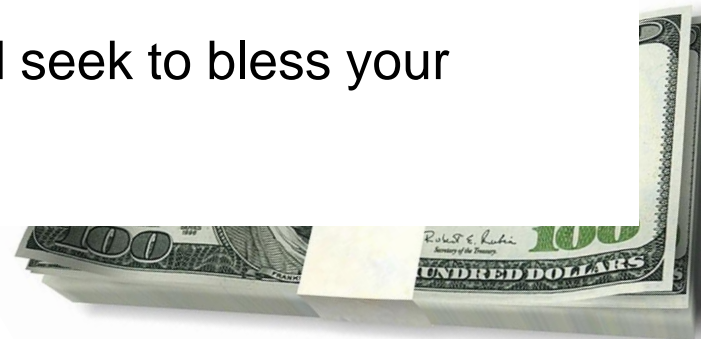
- 
- One simple, low-cost, diverse portfolio:
    - 80% in Vanguard 500 Index Fund (symbol: VFIAX, number 0540)
    - 20% in Vanguard Total Bond Market Index Fund (symbol: VBTLX, number 0584)
  - Above fund minimums are \$3000 as of 1/12/2026, so starting out with less:
    - [Open a Vanguard Roth IRA](#) with e-delivery (no annual fee) & buy Vanguard ETFs (no trade commissions)
    - [Buy basic Vanguard ETFs](#):
      - 80% Vanguard 500 Index Fund ETF ([VOO](#)) or Vanguard Total World Stock ETF ([VT](#))
      - 20% Vanguard Total Bond Market ETF ([BND](#))
    - As of 1/12/2026, shares: ~\$639/VOO, ~\$145/VT, ~\$74/BND, so 1 VOO ~\$639, 3 VT + 1 BND ~\$509; 3 VT ~\$435
    - If you can tolerate volatility, invest 100% in stocks long-term.





# Rethinking Retirement

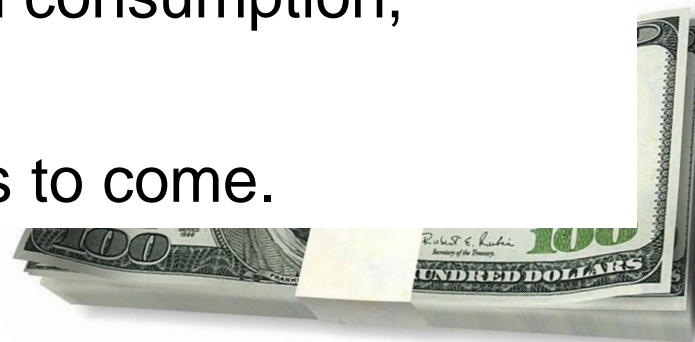
- Conventional retirement planner advice:
  - At retirement calculate 4% of savings as retirement “salary”. Adjust “salary” each year for inflation.
  - Hold a higher proportion of bonds for low risk.
  - Goal: Consume at the fastest rate possible without quite depleting savings.
- Unconventional wisdom:
  - Instead, let 3% be your retirement “salary”. Preserve savings value for your descendants. (Bernstein, 2002, p. 235)
  - Keep the same high proportion of stocks; you’re still saving for the long-term.
  - Goal: Consume what you need and seek to bless your descendants.





# Hating Money

- Read [Matthew 6:19-34](#). Does this tell us not to save? Again, how does this work with [Proverbs 13:22](#)?
  - Do not selfishly store up for **yourself**.
  - Do not **treasure** savings.
  - Do not **worry** about savings.
- Hate money by
  - Simply, patiently abstaining from consumption,
  - Trusting it to God's hands, and
  - Giving it away to the generations to come.

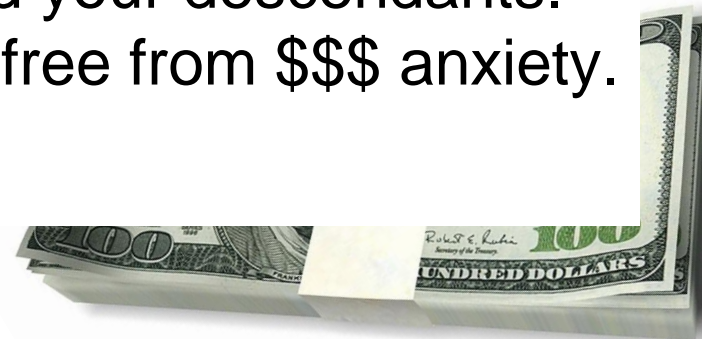




# Conclusion



- **Invest in you.** Seek out and prepare for your calling (vocation). Enjoy your work! ([Eccl. 2:24a](#), [3:22](#), [5:19](#))
- **Give 10%, Save 10-20%** (patiently, regularly investing in diverse, low-cost index funds / ETFs), and **live well within your means.**
- **Team up.** As God leads, build a faithful marriage with a contented spouse who likewise loves God and hates money.
- **Trust** God to provide for you and your descendants. ([Prov. 11:28](#), [Matt. 6:25-34](#)). Be free from \$\$\$ anxiety.





# Readings

- [Bible](#), esp. [Proverbs and Ecclesiastes](#)
- William Bernstein, [The Four Pillars of Investing](#).
- Online:
  - Vanguard: [vanguard.com](http://vanguard.com) “How to Invest”
  - Bogleheads forum: [bogleheads.org](http://bogleheads.org) “Getting Started”





# References

- William Bernstein, *The Four Pillars of Investing: lessons for building a winning portfolio*, McGraw Hill, 2010.
- John Bogle, *Common Sense on Mutual Funds: new imperatives for the intelligent investor*, 10<sup>th</sup> Anniv. Ed., John Wiley & Sons, Inc., 2009.
- Jeremy Siegel, *Stocks for the Long Run: the definitive guide to financial market returns and long-term investment strategies*, 5<sup>th</sup> edition, McGraw-Hill, 2014.
- Eric Tyson, *Investing for Dummies*, 9<sup>th</sup> edition, Wiley Publishing, Inc., 2020.

