



# Investing Basics for all

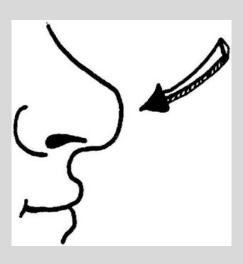
Professor Richard Jakotowicz & Rajeev Vaidya

UD – Osher Lifelong Learning Institute

April, 2025

# Disclaimer in plain language

#### Disclaimer – in plain language:



Opinions are like noses, everyone has one!

You are going to see mine in this course!!

I am simply sharing my perspective.

This is not investment advice or recommendation.

Rajeev is not a financial advisor.

This course is for educational purposes only.

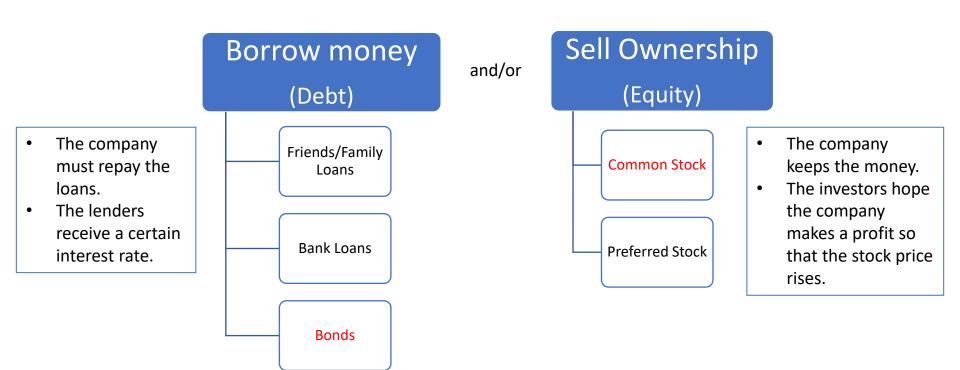
Form your own opinion, make your own investment decisions.

# Session 2 – April 9<sup>th</sup>

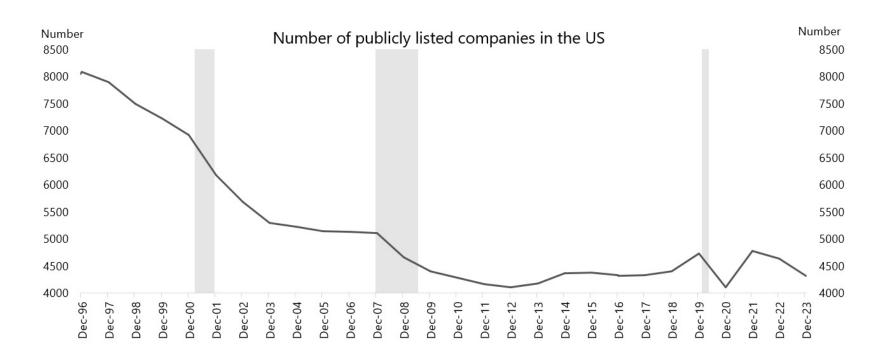
Investing in Stocks

# Stocks vs Bonds: Viewed As The Company

If you start a company, how do you get the financing needed to run it?

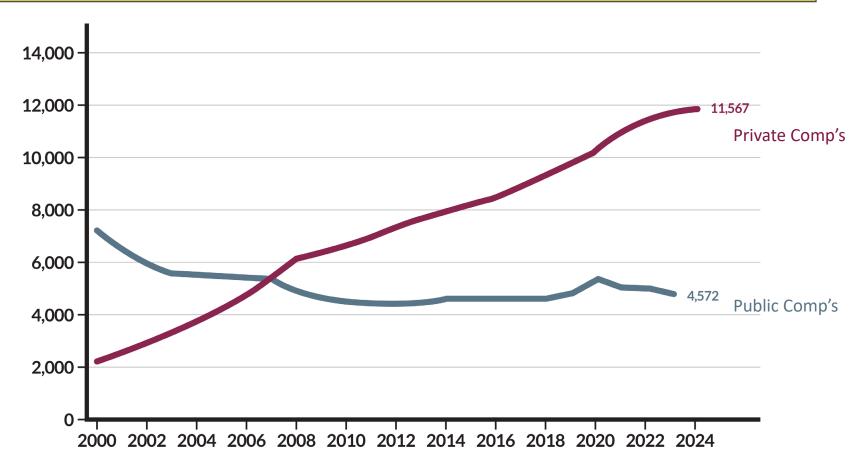


# How many companies trade on US Stock Exchanges? AKA: Publicly Traded Stocks



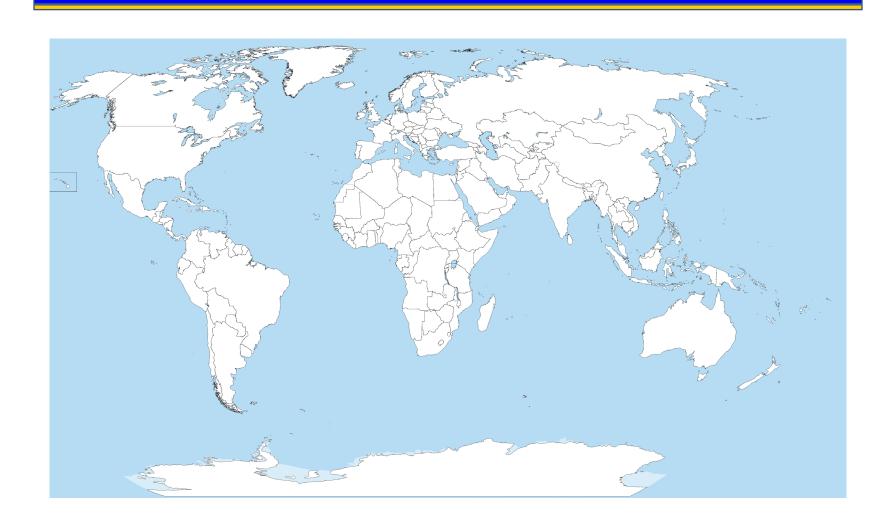
Source: Apollo

## Publicly Traded Stocks vs Private Stocks

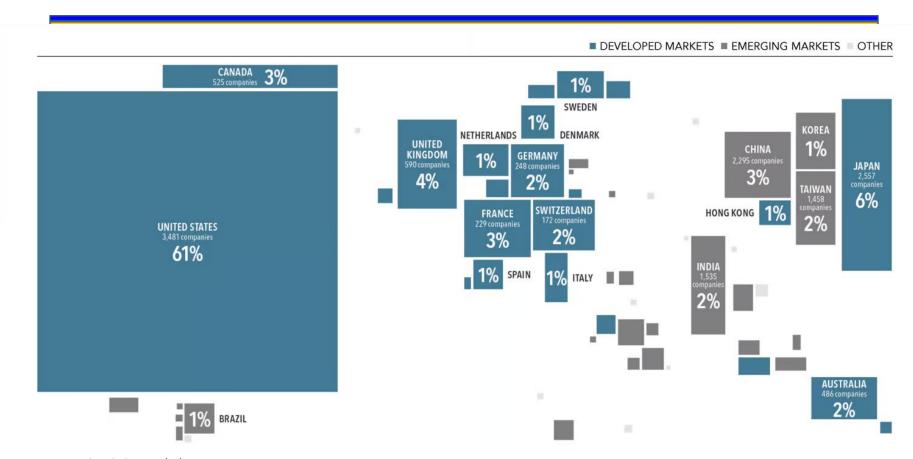


Source: World Bank, Statista, Siblis Research

# We Can Buy Stocks From All Over The World



### Global Stock Market Exposure



Source: Dimensional Fund advisors 12/31/2024

## Types of Risk

- Systematic Risk macroeconomic and other "systemic" events that influence the value of financial assets in general.
  - Recessions, inflation, interest rates, etc.
  - GeoPolitics
  - As a stock investor, you can't "hide" from systematic risk
- Unsystematic Risk
  - Risk specific to an industry or individual company
  - Risks to specific sectors / industries within the stock market.
    - How the industry will perform in the current economy
    - Measured by volatility in a specific sector
  - Risk in a specific company within the sector/industry
    - How the company performs in the sector/industry
    - What happens to that company financial performance
    - Measured by Beta for that company within the market.

Why are you taking risk?

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# Disciplined buying

#### Investment thesis:

This is a good investment because ......

#### Valuation Entry Point:

This is a good price / entry point to buy because ......

If I am right, I will make gains by selling the stock @ ......

#### Position Size:

I can buy XXX shares for my portfolio

**Exit Rules:** 

If I am wrong, I will limit losses by exiting the position @....

## Picking Stocks To Buy

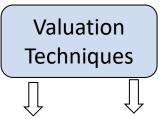
# Qualitative Research

- Management Team
- Industry Market Share
- Geographic and Segment Position
- Conference Call Review, MD&A

Subjective!

Answers the question:

Is it a good company?



#### Intrinsic Value

- Value is based on future assumptions of sales, earnings, & growth
  - Discount Cash Flow Model or Dividend Discount

#### **Relative Value**

- Value is based on the value of peers.
- Compare various ratios of the firm to the average ratio of it's peers

Answers the question:

Is it trading at a good price?

# Relative Value of a Stock Using Price Multiples

	Price To
	Earnings
Name	Ratio
McCormick	26.11x
JM Smucker Co	21.01x
Lamb Weston Holdings	21.89x
Post	23.29x
Flowers Foods	23.67x
Hain Celestial Group	52.88x
Snyder's-Lance	49.93x
Hershey	31.10x
Fresh Del Monte Produce	17.18x
Phibro Animal Health A	22.43x
Hostess Brands A	10.80x
Average	27.84x

If McCormick stock is trading at \$104 And, its earnings per share are \$4 per share

Using the average PE Ratio for the industry, the stock should trade at 27.84 times earnings

Relative Value = 27.84 x \$4 = **\$111.36** 

That's 7% higher than its current price...Buy

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If Hershey is currently trading at \$93 per share And, its earnings per share are \$3 per share

Use the average PE ratio to determine its value...

Relative Value = 27.84 x \$3 = **\$83.52** 

That's 10% lower than its current price...Sell

# Intrinsic Value of a Stock

### Interest Rates and Stock Prices

What is the value of a \$100 dividend payable next year?

If rates are 10%

 $$100 / (1.10)^1 = $90.91$ 

What is the value of a \$100 dividend payable next year?

If rates drop to 7%

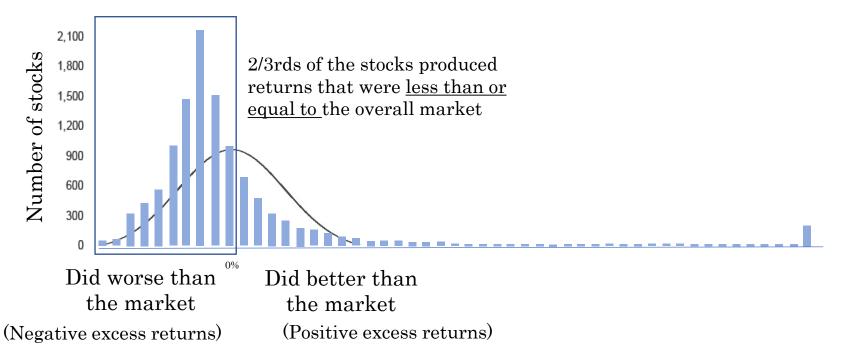
 $$100 / (1.07)^1 = $93.46$ 

Higher systemic risk leads to higher discount rates.

Higher rates = lower values

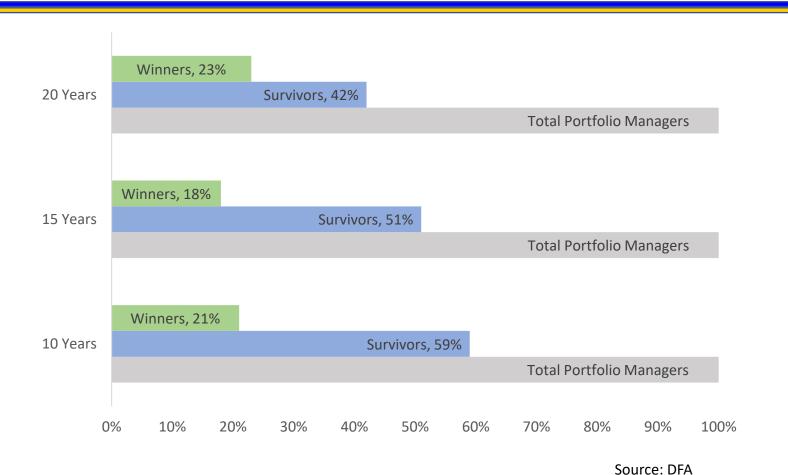
## The Difficulty In Picking A Winning Stock

# Excess Return = Did the stock do better or worse than the overall market Lifetime excess returns 1980-2014



Source: FactSet, J.P. Morgan Asset Management. Prof. Rich Jakotowicz — Univ. of Delaware

# Professionals Don't Do Well



### Over 100 Behavioral Biases When Investing 100 Ways That Your Behavior Can Become Your Biggest Obstacle!

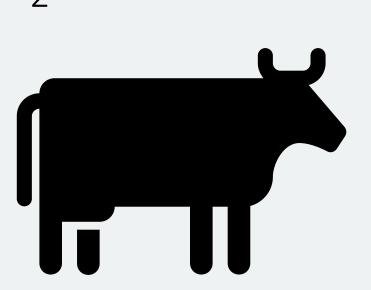
- ➤ Anchoring Bias
- ➤ Choice-Supportive Bias ➤ Outcome Bias
- ➤ Availability Bias
- ➤ Clustering Bias
- ➤ Ostrich Effect
- ➤ Information Bias
- ➤ Placebo Effect
- ➤ Pro-Innovation Bias

- **≻**Confirmation Bias
- - ➤ Recency Bias
  - ➤ Survivorship Bias
- ➤ Blind Spot Bias
- **≻**Conservatism Bias
- ➤ Overconfidence Bias
- ➤ Salience Bias

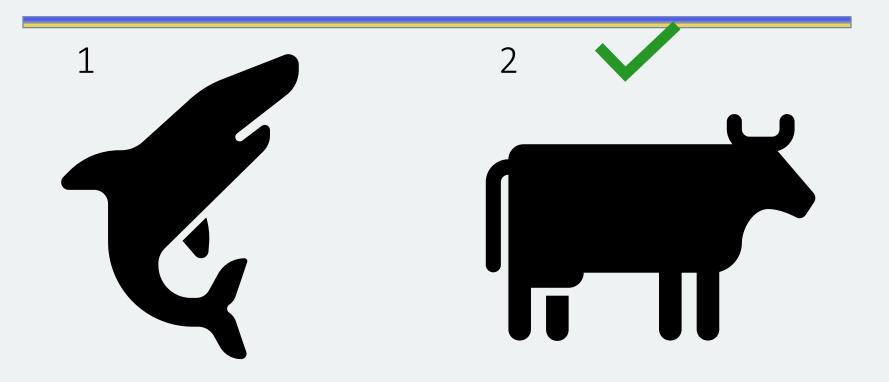
- ►7ero Risk Bias
- ➤ Disposition Effect
- > Framing Effects
- **►** Loss Aversion
- > Selective Attention
- ➤ Herding Bias
- ➤ Gambler's Fallacy
- ► Illusion of Control

# — Which Animal is More Deadly?





## Which Animal is More Deadly?



While sharks may seem to be the clear choice, sharks kill on average just one American each year, whereas an average of 20 Americans are killed by cows annually.

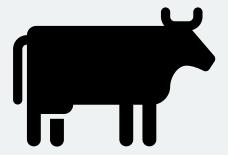
Source: Rawley Z. Heimer, Kristian Ove R. Myrseth and Raphael S. Schoenle, "YOLO: Mortality Beliefs and Household Finance Puzzles," The Journal of Finance 74, no.6 (December 2019): 2957-2996. https://doi.org/10.1111/jofi.12828.



### The Availability Bias



- Sharks seem deadly (think about the soundtrack from JAWS)
- Shark attacks and even sightings receive widespread media attention
- The Discovery® Channel dedicates an entire week of programming to them every year

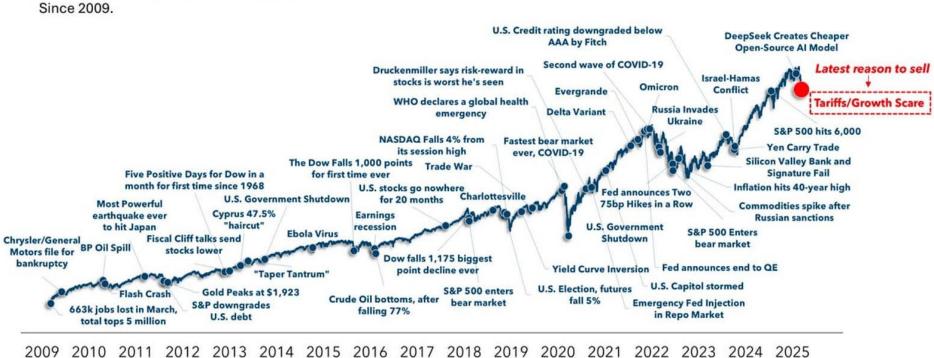


- Cows are docile and don't seem to present a threat
- When is the last time you heard about someone having been killed by a cow?

"When it comes to thinking about what's likely to occur in the future, we think about what was likely to occur in the past and project that ahead in time. We draw on whatever is easiest to conjure." – Hal Hershfield, Professor at UCLA Anderson

# The world Is scary! It's easy to find a reason to sell It's hard to ignore the reasons and remain invested

#### Reasons to Sell and S&P 500 Price



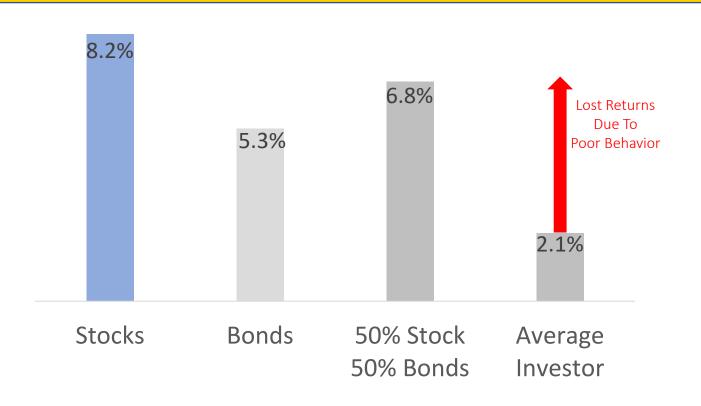
#### "History Doesn't Repeat Itself But It Often Rhymes"

-Mark Twain

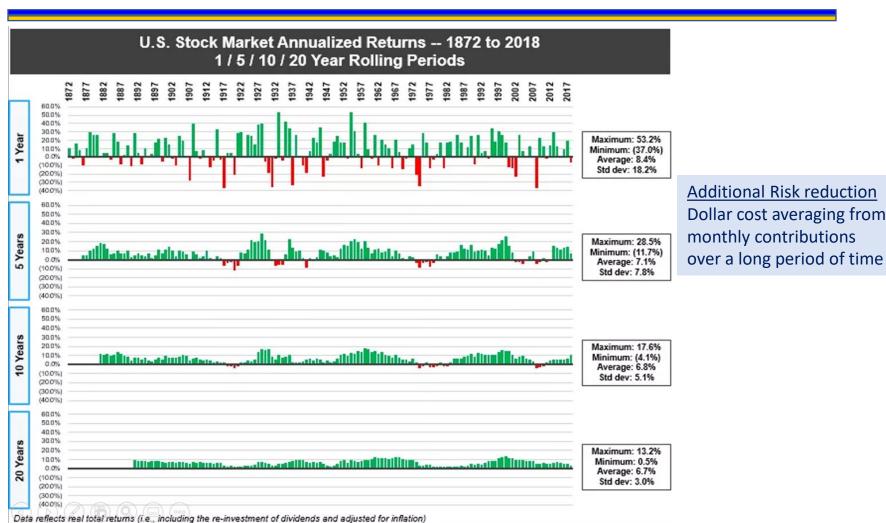
Ignore The Media!!!



#### Annual Returns From 1996 - 2015



## Length of investment time horizon reduces risk

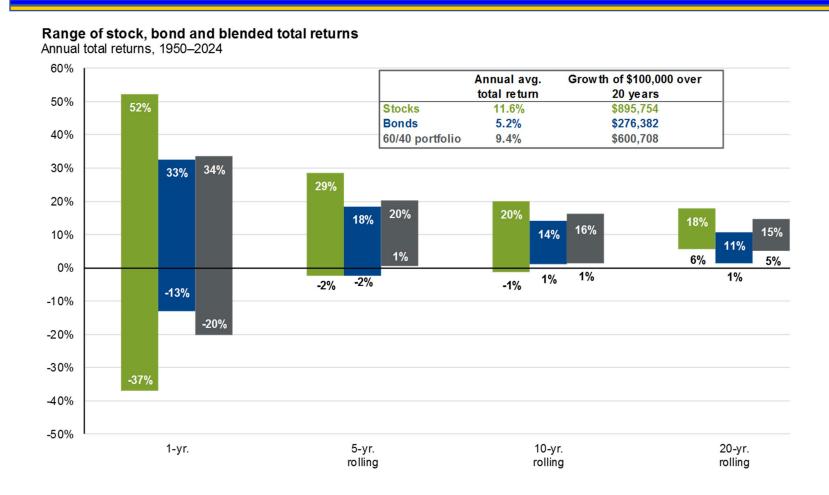


usta reflects real total returns (i.e., including the re-investment of dividends and adjusted for inflation)

4/7/2025

Rajeev Vaidya

### **Diversification and Time**



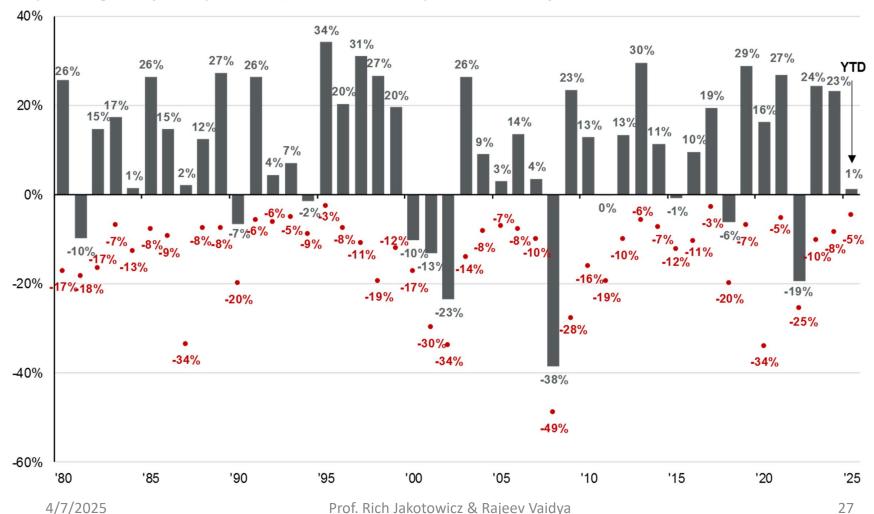
# Key messages on selling ....

- Selling is OK!
- Only things certain is death and taxes. Being tax smart is OK!
- Three rules.
  - 1. Be impatient with your losers.
  - 2. Protect your profits
  - 3. Thinking of selling and selling are not the same

## Intra-year declines vs Year End Returns

#### S&P intra-year declines vs. calendar year returns

Despite average intra-year drops of 14.1%, annual returns were positive in 34 of 45 years



#### Stock indices

- Stocks are often grouped
  - Dow Jones Index 30 stocks
  - S&P 500 503 stocks (market cap weighted top 10 account for 37% of index value)
  - NASDAQ >2500 Stocks but top tech stocks are here
  - Russell 2000 2000 Stocks
- You can invest broadly in these groups rather than individual stocks ... We will talk more when we come to Mutual Funds and ETFs

### All Indices are different



#### Stocks or Shares

- Post-reading if you have time
- Investopedia links:
- https://www.investopedia.com/terms/s/shares.asp
- https://www.investopedia.com/terms/s/stock.asp
- https://www.investopedia.com/terms/i/ipo.asp

# **Investing Basics for All**

# Thank You!!