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# The psychology of investing

Keeping calm amid market turbulence

USWAM0321U/S-1548173-1/25

#### **Keys to investment success**



Asset allocation and security selection

# **Investor behavior**



# Which would you pick?



Lo, Andrew, 2017, Adaptive Markets: Financial Evolution at the Speed of Thought (Figure 10.3). Princeton University Press. For illustrative purposes only. Not meant to represent a specific recommendation for any security listed. Past performance is no guarantee of future results.

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1720, Sir Isaac Newton lost a fortune in the South Sea Company, the hottest stock in England.

Newton concluded...

[That he] 'can calculate the motions of the heavenly bodies, but not the madness of people.'

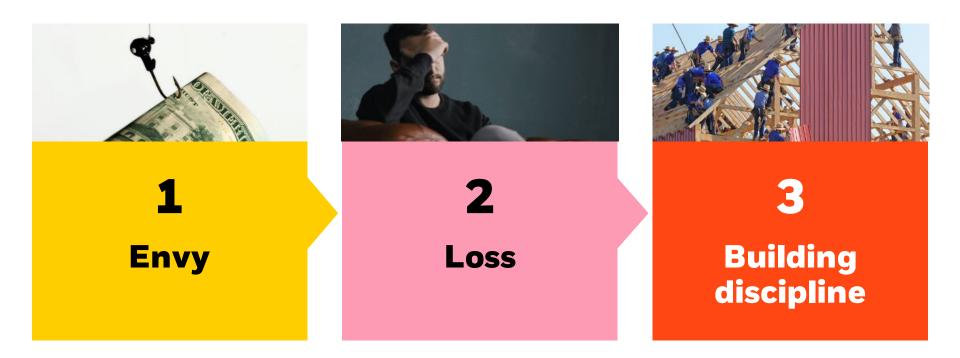


# "We don't have to be smarter than the rest. We have to be more disciplined than the rest."

-Warren Buffett



**≓** Agenda







# Envy

## Regret

Lottery ticket effect

Miscalculating the risks



# Bronze medal winners are happier than silver medal winners

#### Happiness levels of each winner

(1 to 10 happiest)

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Bronze Winner

7.1

Silver Winner

4.8

Source: Journal of Personality and Social Psychology November 1995.



## S&P Envy: A diversified portfolio is ripe for regret

40% U.S. stocks, 10% international stocks, 5% small cap stocks, 5% emerging market stocks, 30% U.S. bonds, 10% high yield bonds

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Years	S&P 500	Diversified portfolio	
2000-2002*	-40.1%	-17.3%	"I lost money"
2003-2007	82.9%	80.0%	"I didn't make as much"
2008	-37.0%	-24.5%	"I lost money"
2009-2019	351.0%	195.3%	"I didn't make as much"
Q1 2020†	-30.4%	-20.7%	"I lost money"
Q2-Q4 2020‡	70.2%	42.6%	"I didn't make as much"
Total Return	268.7%	275.3%	( ) "Diversification can work even when
Gr \$100k	\$368,745	\$375,302	it feels like its losing"

Source: Morningstar as of 12/31/20. \*Performance is from 9/30/00 to 12/31/02. \*Performance is from 1/1/20 to 3/23/20. \*Performance is from 3/24/20 to 12/31/20. Diversified Portfolio is represented by 40% S&P 500 Index, 10% MSCI EAFE Index, 5% Russell 2000 Index, 5% FTSE Emerging stock Index, 30% Bloomberg Barclays U.S. Aggregate Bond Index, and 10% Bloomberg Barclays US Corporate High Yield Index. Index performance is for illustrative purposes only. You can not invest directly in the index. **Past performance does not guarantee or indicate future results.** Diversification does not guarantee a profit or protect against a loss in a declining market.

Americans spend \$73 billion on lottery tickets every year (\$223 per person).

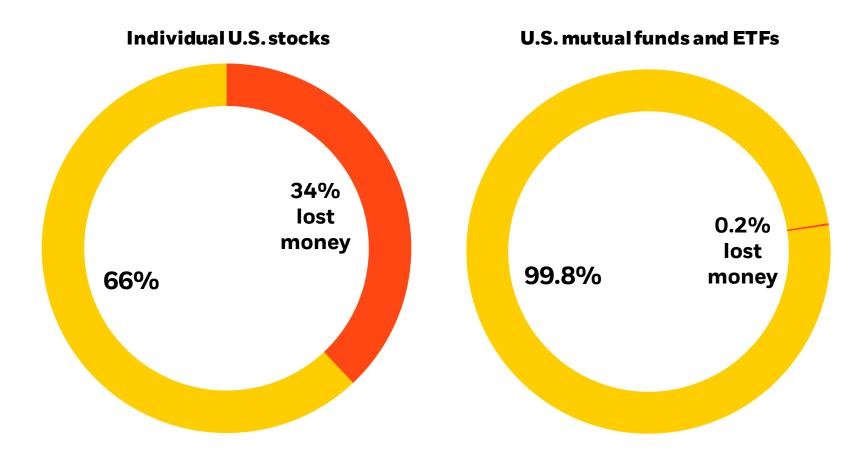
The odds of winning the Powerball lottery are 1 in 292,000,000.

Implications: Single stocks Next great company Hot investment trend

Source: US Census Bureau and North American Association of State and Provincial Lotteries as of 12/31/19. Past performance does not guarantee or indicate future results.

## Individual U.S. stocks versus U.S. stock mutual funds

#### U.S. stocks are up 15.2% over the last 5 years



Source: Morningstar as of 12/31/20. Mutual Funds and ETFs are the Morningstar US Equity Category, oldest share class only. US Individual Stocks are the Morningstar US Stock Universe, all securities on the NYSE and NASDAQ. Analysis does not include obsolete mutual funds, ETFs or stocks as defined by Morningstar. Performance is historical and does not guarantee or indicate future results.

## Do we really know how severe the risks can be?



Source: BlackRock. For illustrative purposes only.



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# LOSS

Tendency to act Sideline sitting Following the herd



#### Our tendency to take action

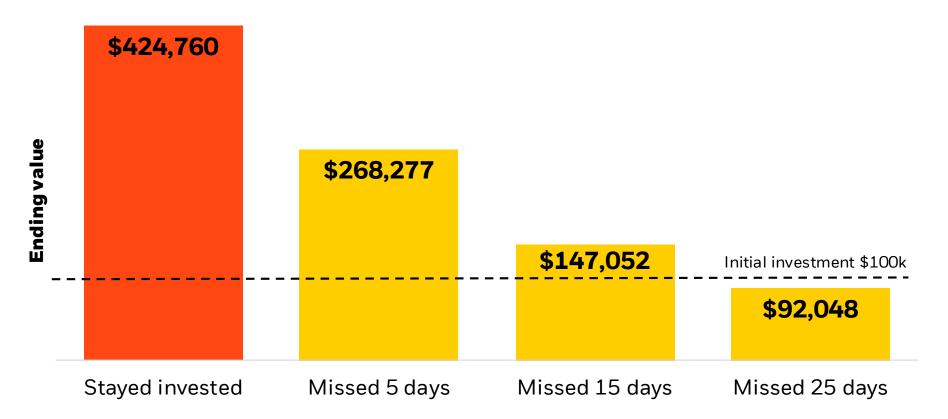
Statistics show that the best penalty kick strategy for goalkeepers is to stay in the middle. But they jump left or right 94% of the time.

Source: The New York Times Magazine, "Goalkeeper Science", 2008.

## Time in the market vs. timing the market

#### Missing top-performing days can hurt your return

Hypothetical investment of \$100,000 in the S&P 500 Index over the last 20 years (2001-2020)



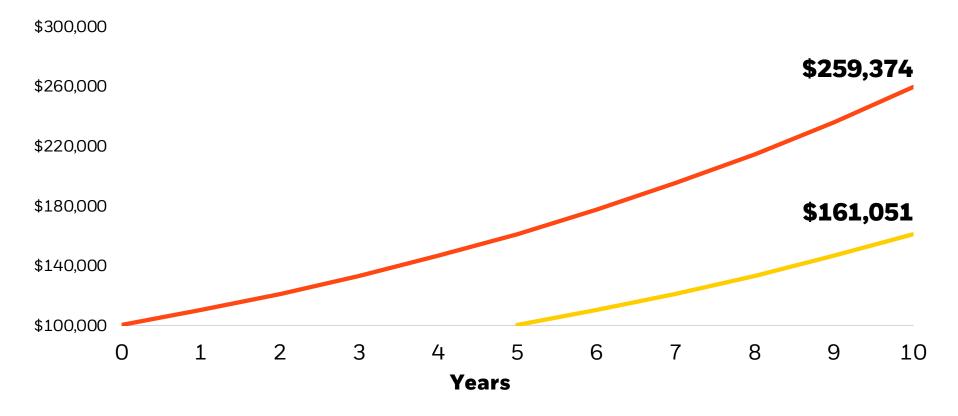
Source: Morningstar as of 12/31/20. Past performance does not guarantee or indicate future results. Index performance is shown for illustrative purposes only. You cannot invest directly in an index.



# Waiting for the "right time to invest" can leave you behind

#### Compound interest... *"The eighth wonder of the world"* – Albert Einstein

Hypothetical growth of \$100,000 assuming 10% annual yield



Source: BlackRock as of 12/31/20. For illustrative purposes only.



# "Be fearful when others are greedy. Be greedy when others are fearful."

-Warren Buffett





# Building Discipline



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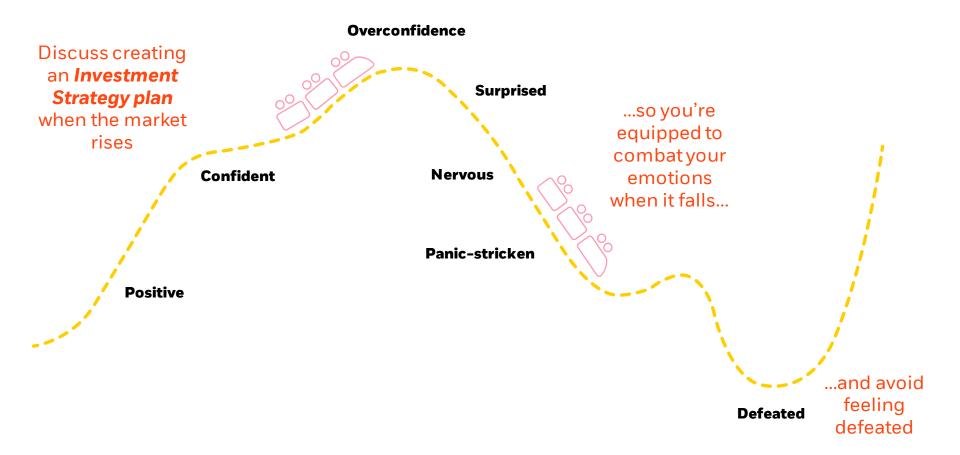
### **Talk to a financial professional**



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## **Prepare for the worst before it happens**

#### Riding the ups and downs of the market



Hypothetical example.



# Forecasting folly: Turn off financial TV & news





#### "It's tough to make predictions, especially about the future." — Yogi Berra

Morningstar, Federal Reserve Bank of Philadelphia as of 12/31/20. Past performance does not guarantee or indicate future results. Median annual forecast used; the median forecast for the direction of the 10 yr US Treasury Bond was correct in 12 of 28 years. "Wall Street experts" refers to the 40+ financial professionals and professors surveyed by the Federal Reserve Bank of Philadelphia.



## The psychology of investing



- Be critical, even when times are good
- Be opportunistic, even when times seem bad

#### Become a disciplined investor, the sooner the better.

# Save your emotions for the moments that really matter.



#### **Important notes**

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