

BlackRock.

The psychology of investing

Keeping calmamid market turbulence



Keys to investment success

Taxes & estate planning

Asset allocation and security selection

Investor behavior



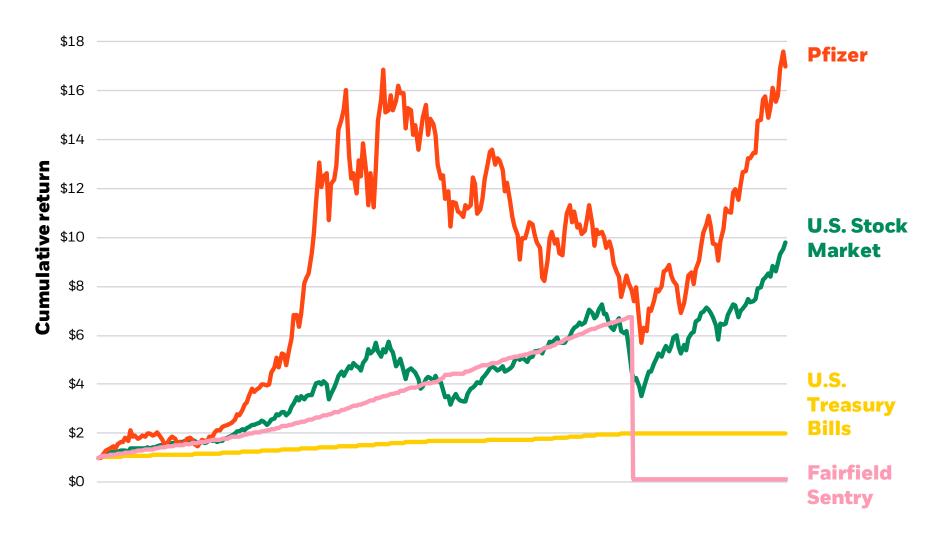
Which would you pick?



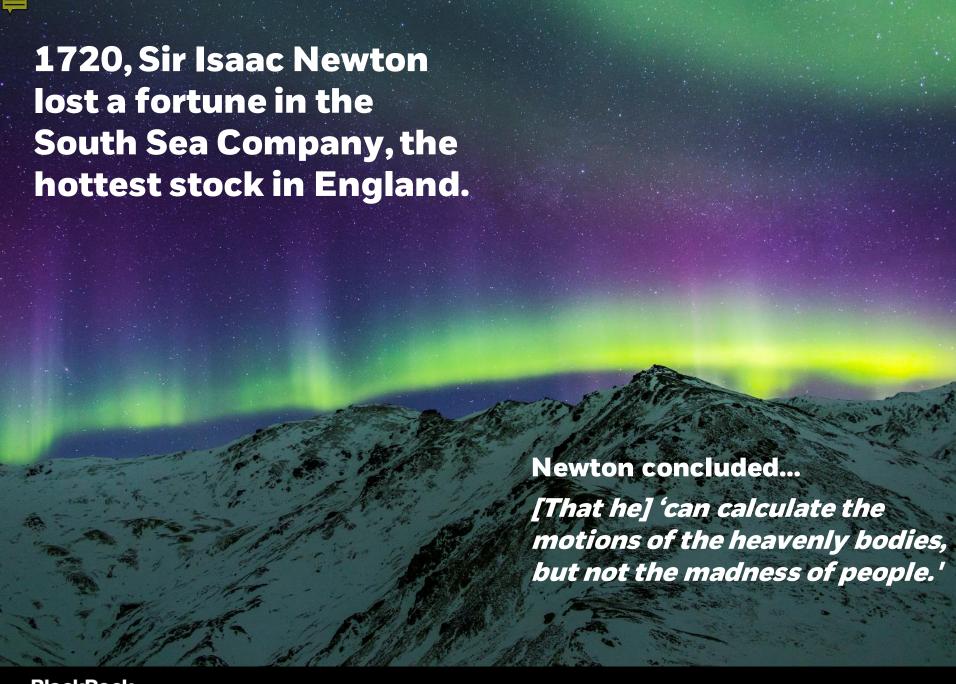
Lo, Andrew, 2017, Adaptive Markets: Financial Evolution at the Speed of Thought (Figure 10.3). Princeton University Press. For illustrative purposes only. Not meant to represent a specific recommendation for any security listed. Past performance is no guarantee of future results.



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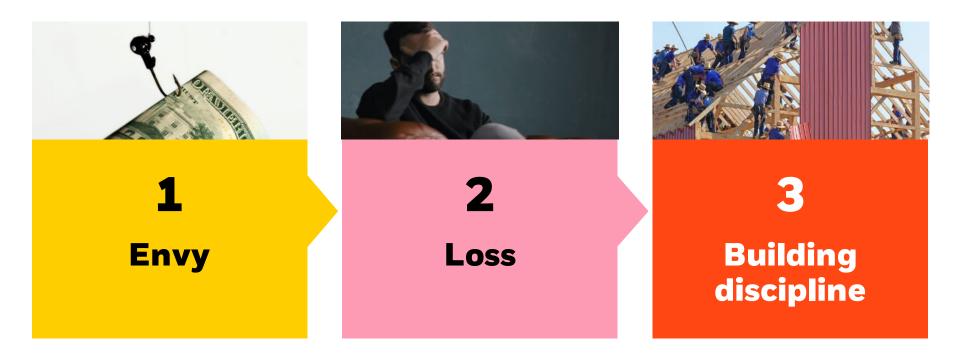


"We don't have to be smarter than the rest. We have to be more disciplined than the rest."

-Warren Buffett



Agenda





Envy

Regret **Lottery ticket effect** Miscalculating the risks

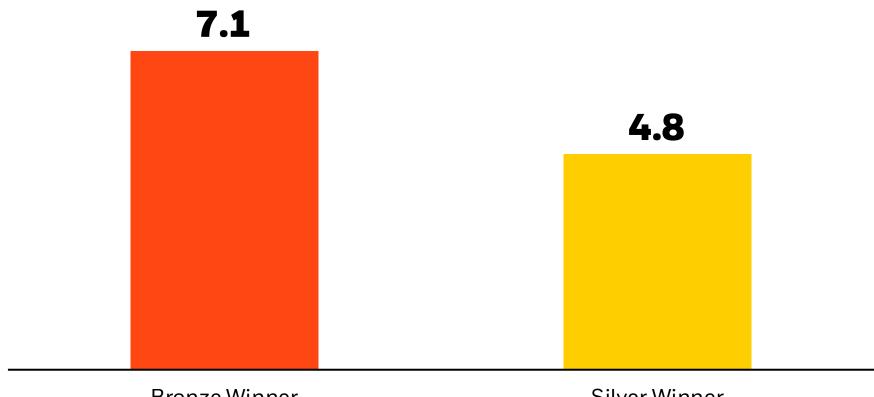




Bronze medal winners are happier than silver medal winners

Happiness levels of each winner

(1 to 10 happiest)



Bronze Winner

Silver Winner

Source: Journal of Personality and Social Psychology November 1995.



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

25% U.S. large stocks, 19% U.S. mid cap stocks, 7% international stocks, 5% U.S. small cap stocks, 4% emerging market stocks, 25% U.S. bonds, 15% high yield bonds

Years	S&P 500	Diversified portfolio	
2000-2002*	-40.1%	-15.7%	"I lost money"
2003-2007	82.9%	87.1%	"Diversification worked"
2008	-37.0%	-26.6%	"I lost money"
2009-2019	351.0%	220.1%	"I didn't make as much"
Q1 2020†	-30.4%	-23.1%	"I lost money"
Q2 2020 - 2021*	119.0%	66.6%	"I didn't make as much"
Total Return	374.6%	375.0%	"Diversification can work even when
Gr \$100k	\$474,550	\$474,970	it feels like its losing"

Source: Morningstar as of 12/31/21. *Performance is from 9/1/2000 to 12/31/02. *Performance is from 1/1/20 to 3/23/20. *Performance is from 3/24/20 to 9/30/20. Diversified Portfolio is represented by 25% S&P 500 Index, 7% MSCI EAFE Index, 5% Russell 2000 Index, 25% Bloomberg US Aggregate Bond Index, 19% Russell Mid Cap Index, 15% Bloomberg US Corporate High Yield Index, 4% FTSE Emerging Stock Index.. Past performance does not guarantee or indicate future results. Index performance is for illustrative purposes only. You cannot invest directly in the index.



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

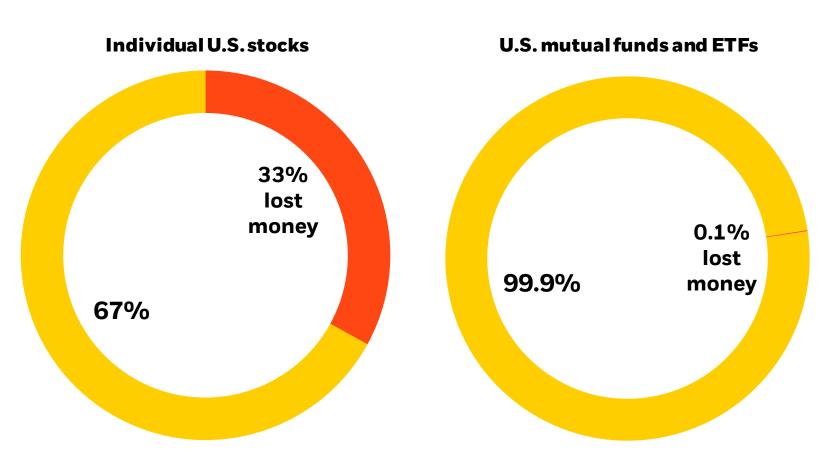
The odds of winning the Powerball lottery are 1 in 292,000,000.





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

U.S. stocks are up 18.5% on average over the last 5 years



Source: Morningstar as of 12/31/21. 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 Forillustrative purposes only.



LOSS

Tendency to act
Sideline sitting
Following the herd



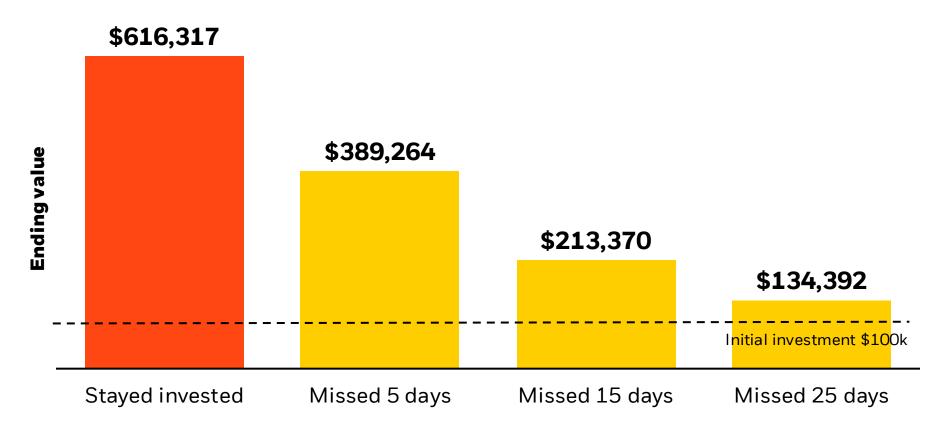




Time in the market vs. timing the market

Missing top-performing days can hurt your return

Hypothetical investment of \$100,000 in the S&P 500 Index over the last 20 years (2002-2021)



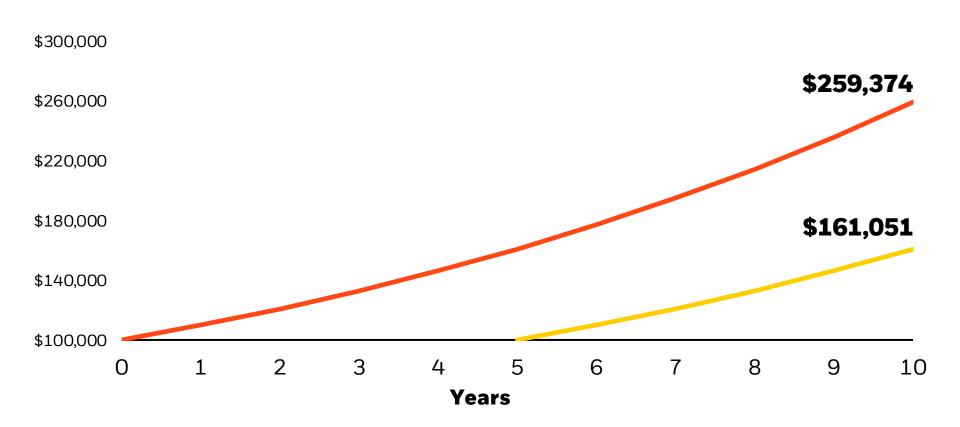
Source: Morningstar as of 12/31/21. Past performance does not guarantee or indicate future results. Index performance is shown for illustrative purposes only. You cannot invest directly in an index.



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 12/31/21. For illustrative purposes only.



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

-Warren Buffett



Building Discipline





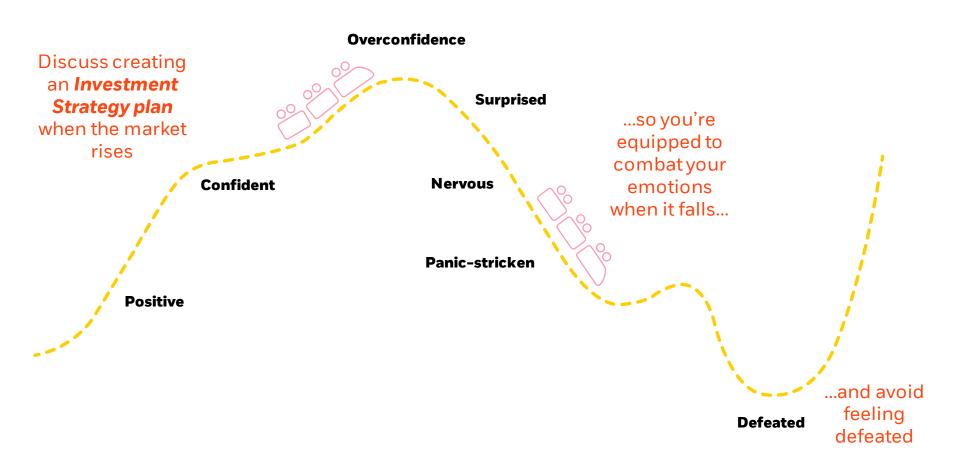
Talk to a financial professional





Prepare for the worst before it happens

Riding the ups and downs of the market

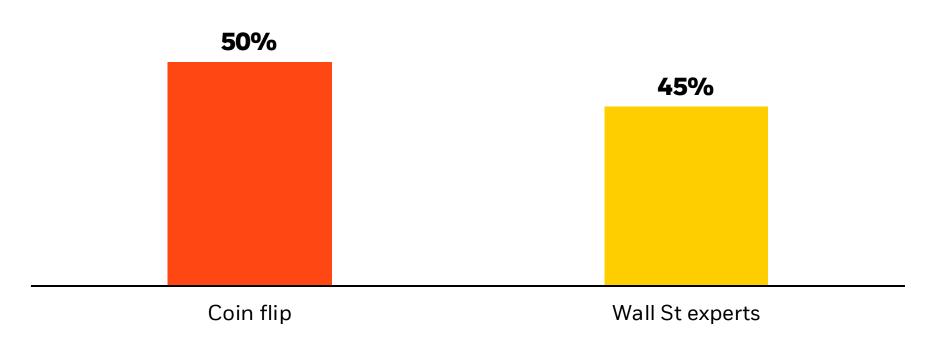


Hypothetical example.



Forecasting folly: Turn off financial TV & news

Predicting the direction of interest rates



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

Morningstar, Federal Reserve Bank of Philadelphia as of 12/31/21. 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 13 of 29 years. "Wall Street experts" refers to the 40+ financial professionals and professors surveyed by the Federal Reserve Bank of Philadelphia.



The psychology of investing

1

Proper investor behavior is critical to investment success

2

Common investor biases are a challenge (for everyone)

- ENVY: Regret, S&P Envy, Lottery Ticket Effect
- LOSS: Compounding, Time vs Timing, Following the Herd

3

Work with your financial professional to build in discipline and ensure you are reacting to the market rationally

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

Become a disciplined investor, the sooner the better.



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