Special Edition - Understanding Market Volatility

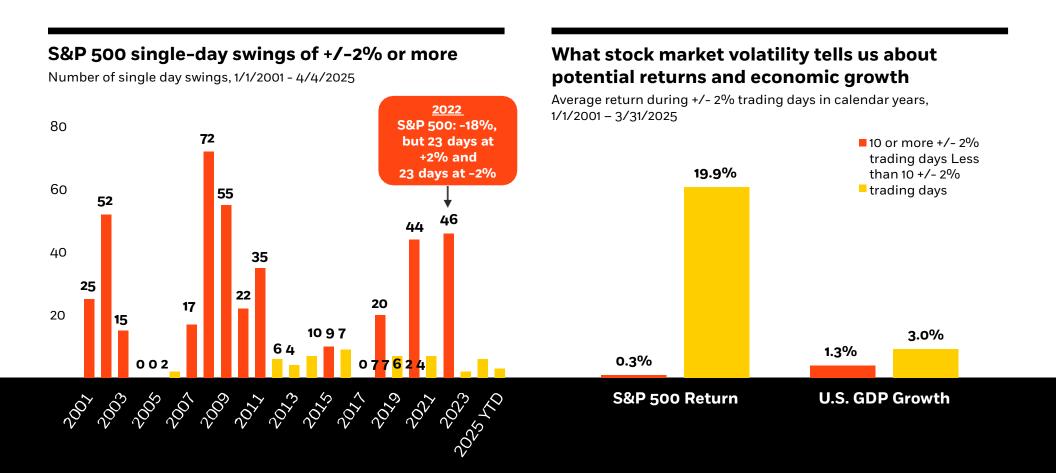
# Student of the Market



### STOCK MARKET VOLATILITY

## Volatility increases with economic and policy concerns

The number of big single-day swings are lower than previous years, with most coming during crisis periods



Source: Morningstar as of 4/4/25. Stock market represented by the S&P 500 Index. Past performance does not guarantee or indicate future results. Index performance is for illustrative purposes only. You cannot invest directly in the index.

## The best days for equities have followed the worst

March 2020 volatility showcased how quickly markets can rebound even after significant drawdowns

## 3 of the Worst Days Since 1950

Worst days since 1950	Calendar Days	S&P 500 Decline	Return 1 year later
#2	3/16/2020	-12.0%	69.0%
#3	3/12/2020	-9.5%	61.8%
			•
#9	3/9/2020	-7.6%	43.6%

## 5 of the Best Days Since 1950

Best days since 1950	Calendar Days	S&P 500 Gain	Return 1 year later
#3	3/24/20	9.4%	61.7%
#4	3/13/20	9.3%	48.0%
#7	4/6/20	7.0%	55.6%
#12	3/26/20	6.2%	53.7%
#13	3/17/20	6.0%	59.9%

# Over the last 20 years, 24 of 25 of the best days in the market occurred within 1 month of one of the 25 worst days

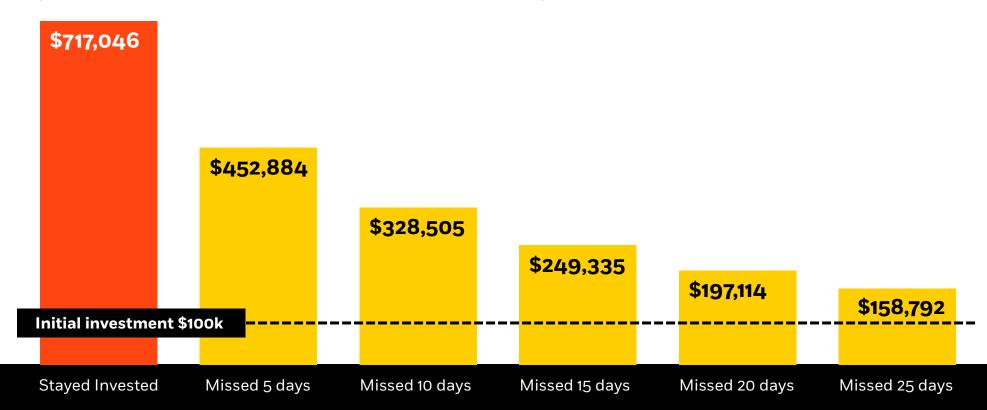
Sources: BlackRock; Morningstar as of 3/31/25. "S&P 500" is represented by the S&P 500 Index from 3/4/57 to 3/31/25 and the IA SBBI U.S. Lrg Stock Tr USD Index from 1/1/26 to 3/4/57, unmanaged indexes that are generally considered representative of the U.S. stock market during each given time period. Index performance is for illustrative purposes only. It is not possible to invest directly in an index. Past performance does not guarantee or indicate future results.

# Staying invested has been more important than timing

It's time in the market that matters; waiting for the "right moment" could mean missing crucial performance

## Missing top-performing days can hurt your return

Hypothetical Investment of \$100,000 in the S&P 500 Index over the last 20 years (2005-2024)



Sources: BlackRock; Bloomberg as of 12/31/24. Past performance is no guarantee of future results. It is not possible to invest directly in an index.

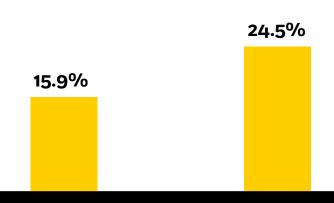
### STOCK MARKET CORRECTIONS

# Buying when the stock market is down -10%

Market pullbacks offer a strong opportunity to invest and "buy the dip" while others seek to exit

## Median return following a -10% decline

Last 20 years, performance next 12 months



Returns following a 10% market decline

Returns from the market bottom (-10% or worse)

## Stock market corrections >10% and bear markets

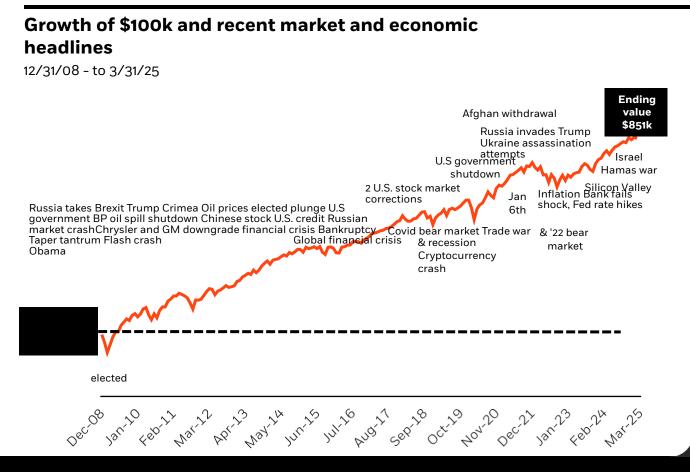
Last 20 years

Correction >10%	Peak	Date Through crosses -10%		Forward returns after crossing -10%	Forward returns from the bottom (through)
				next 12 months	next 12 months
-16.0%	4/23/10	7/2/10	5/20/10	24.4%	27.5%
-19.4%	4/29/11	10/3/11	8/4/11	15.9%	19.1%
-14.2%	5/21/15	2/11/16	8/24/15	14.9%	17.1%
-10.2%	1/26/18	2/8/18	2/8/18	11.4%	11.4%
-19.8%	9/20/18	12/24/18 11.	/23/18	25.8%	24.5%
-10.3%	7/31/23	10/27/23 10	/27/23	35.2%	35.2%
-56.8%	10/9/07	3/9/09	11/26/07	-36.9%	64.0%
-33.9%	2/19/20	3/23/20	2/27/20	27.9%	61.9%
-25.4%	1/3/22	10/27/22	2/22/22	-7.3%	22.0%
-10.1%	2/19/25	3/13/25	3/13/25	?	?
Median				15.9%	24.5%

Sources: BlackRock; Bloomberg as of 3/31/25. Stocks are represented by the S&P 500 price index, an unmanaged index that is generally considered representative of the U.S. stock market. "-10% declines" and ">10% corrections" refer to declines of that magnitude or more at any point within the given time frame. Past performance is no guarantee of future results. It is not possible to invest directly in an index.

# There is always a reason to sell

Market pullbacks, corrections, and bear markets happen more often than most realize



# Investing at the worst times in history

Average annual returns if you had been invested when event occurred, %



Source: BlackRock, Bloomberg as of 3/31/25. Investment returns are represented by the S&P 500 TR Index from 3/4/57 to 3/31/25 and the IA SBBI U.S. Lrg Stock TR USD Indexfrom 1/1/26 to 3/4/57, an unmanaged pair of indexes that are generally considered representative of the U.S. stock market. Past performance is no guarantee of future results. It is not possible to invest directly in an index.

## **INVESTOR SENTIMENT**

# Recent investor sentiment very bearish

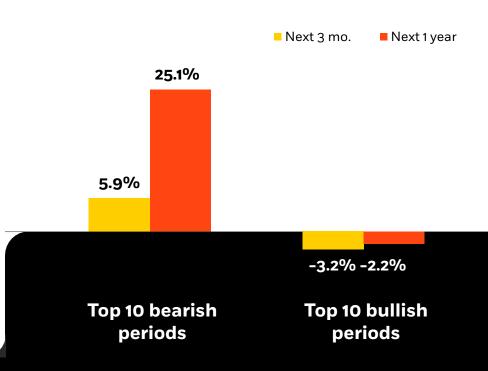
Historically, periods with high bearish sentiment have led to outsized performance

## Top 10 bearish investor sentiment periods

Date	Percent bearish sentiment	Avg annual return next 3 mo.	Avg annual return next 1 yr.
3-5-09	70.3%	38.6%	70.5%
10-19-90	67.0%	7.3%	29.9%
8-31-90	61.0%	0.9%	26.9%
9-22-22	60.9%	2.2%	16.9%
10-9-08	60.8%	-1.4%	20.9%
9-29-22	60.8%	6.2%	19.8%
2-27-25	60.6%		?
4-28-22	59.4%	-4.6%	-1.1%
6-23-22	59.3%	-2.3%	16.6%
3-13-25	59.2%	?	?
Average		5.9%	25.1%

# Performance following periods of top 10 bearish and bullish periods

Average annual returns if you had been invested when event occurred



Sources: BlackRock; Morningstar, St. Louis Federal Reserve and AAII as of 3/31/25. Returns are represented by the S&P 500 Index, an unmanaged index that is generally considered representative of the U.S. stock market. Past performance is no guarantee of future results. It is not possible to invest directly in an index.

# Stay the course amid market volatility

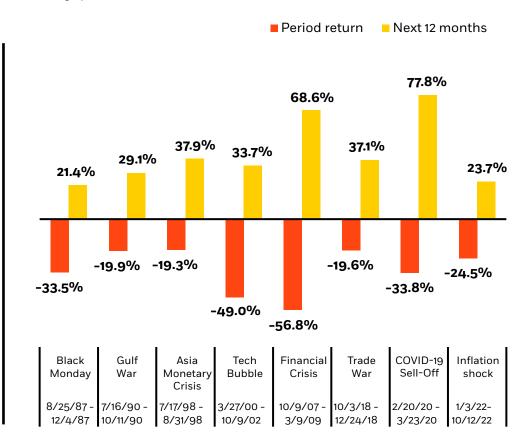
## Top 15 worst market days since 1950\*

Top S&P 500 single day declines and subsequent 1 year return

Calendar Days	S&P 500 Decline*	Return 1 year later*
10/19/87	-20.5%	23.1%
3/16/20	-12.0%	69.0%
3/12/20	-9.5%	61.8%
10/15/08	-9.0%	20.8%
12/01/08	-8.9%	35.9%
9/29/08	-8.8%	-4.1%
10/26/87	-8.3%	23.5%
10/09/08	-7.6%	17.8%
3/9/20	-7.6%	43.6%
10/27/97	-6.9%	21.5%
08/31/98	-6.8%	38.0%
01/08/88	-6.8%	15.3%
11/20/08	-6.7%	45.1%
05/28/62	-6.7%	26.7%
08/08/11	-6.7%	25.2%
Average	-8.9%	30.9%

## Past growth scares and bear markets

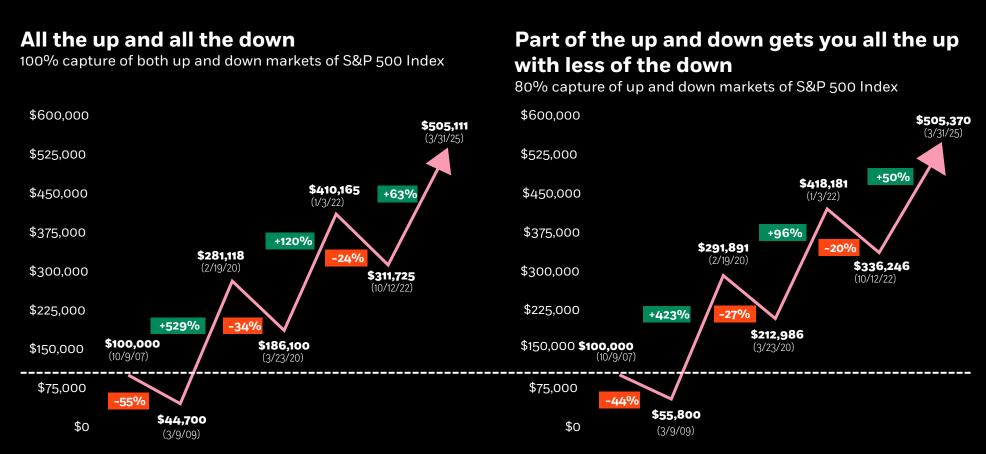
Since 1987



Source: BlackRock; Morningstar as of 3/31/25.S&P500 is represented by the S&P 500 Index from 3/4/57 to 3/31/25 and the IA SBBI U.S. Lrg Stock Tr USD Index from 1/1/26 to 3/4/57, unmanaged indexes that are generally considered representative of the U.S. stock market during each given time period. Index performance is for illustrative purposes only. It is not possible to invest directly in an index. Past performance does not guarantee or indicate future results. \*Indicates principal return, dividends not included. Returns are principal only not including dividends...

# Win more by losing less

Diversification and minimizing losses, even at the cost of upside capture, can have a larger effect on the longterm return of a portfolio than full participation in both bull and bear markets



Source: Morningstar as of 3/31/25. \*Hypothetical investment or portfolio that captured 80% of each bull and bear market return of the S&P 500 when benchmarked to that index. Returns shown are based on the S&P 500 index only. Past performance does not guarantee or indicate future results. Index performance is for illustrative purposes only. You cannot invest directly in the index.

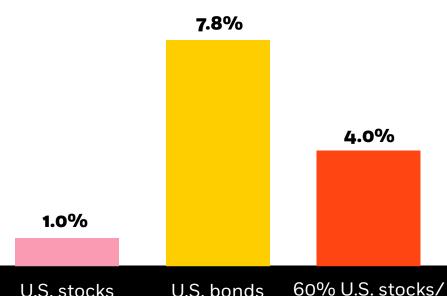
## **RECESSIONS AND PERFORMANCE**

# Recessions and asset class performance

Diversified portfolios with fixed income exposure have performed better during recessionary environments



1/1/1929 - 3/31/2025



## Recession and asset class performance

1/1/1929 - 3/31/2025

Recessions	U.S. stocks	U.S. bonds	60/40 portfolio
1929-09-01 to 1933-03-31	-33.6	4.9	-19.1
1937-06-01 to 1938-06-30	-22.4	6.4	-9.9
1945-03-01 to 1945-10-31	19.5	1.0	12.4
1948-12-01 to 1949-10-31	15.2	2.5	10.1
1953-08-01 to 1954-05-31	24.2	5.1	16.6
1957-09-01 to 1958-04-30	-1.5	9.7	3.3
1960-05-01 to 1961-02-28	20.3	7.2	14.9
1970-01-01 to 1970-11-30	-2.0	16.2	5.3
1973-12-01 to 1975-03-31	-5.9	5.7	0.0
1980-02-01 to 1980-07-31	9.6	9.5	9.5
1981-08-01 to 1982-11-30	10.5	29.1	17.9
1990-08-01 to 1991-03-31	8.0	7.5	8.1
2001-04-01 to 2001-11-30	-0.9	5.9	1.9
2008-01-01 to 2009-06-30	-25.0	4.8	-11.5
2020-03-01 to 2020-04-30	-1.1	1.2	-0.1
Average	1.0	7.8	4.0

U.S. stocks U.S. bonds 60% U.S. stocks/ 40% U.S. bonds

Source: BlackRock; Morningstar, NBER as of 3/31/25. Recessionary periods shown are defined by NBER. U.S. stocks are represented by the S&P 500 Index from 3/4/57 to 3/31/25 and the IA SBBI U.S. Lrg Stock Tr USD Index from 1/1/26 to 3/4/57, unmanaged indexes that are generally considered representative of the U.S. stock market during each given time period. U.S. Bonds are represented by the Bloomberg U.S. Aggregate Bond Index. Recession dates noted by NBER business cycle dating. Index performance is for illustrative purposes only. It is not possible to invest directly in an index. Past performance does not guarantee or indicate future results.

# **Important information**

Investing involves risk, including possible loss of principal.

There is no guarantee that a diversified portfolio will enhance overall returns or outperform a non-diversified portfolio. Diversification does not protect against market risk.

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