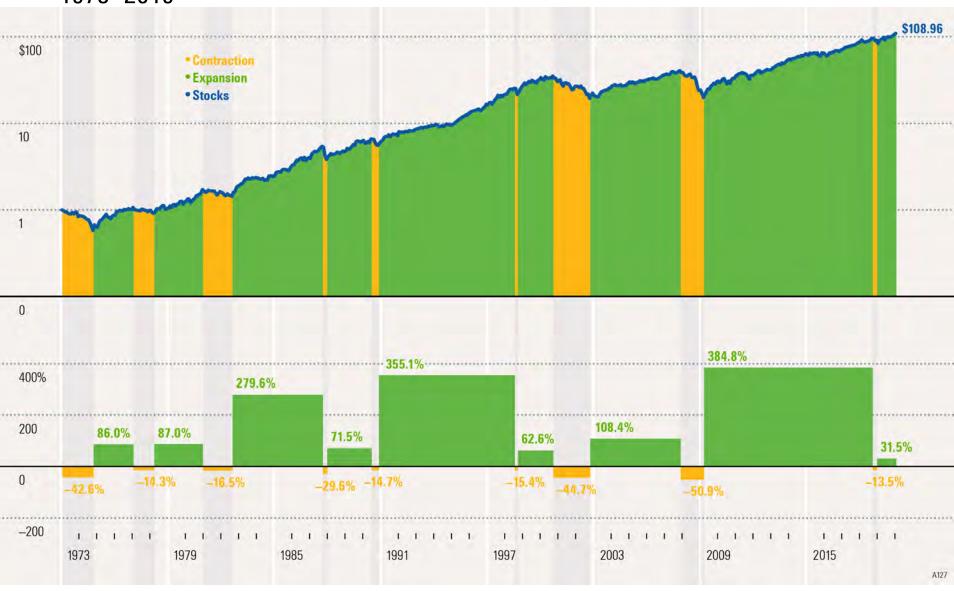
Downturns and Recoveries



Stock Market Contractions and Expansions



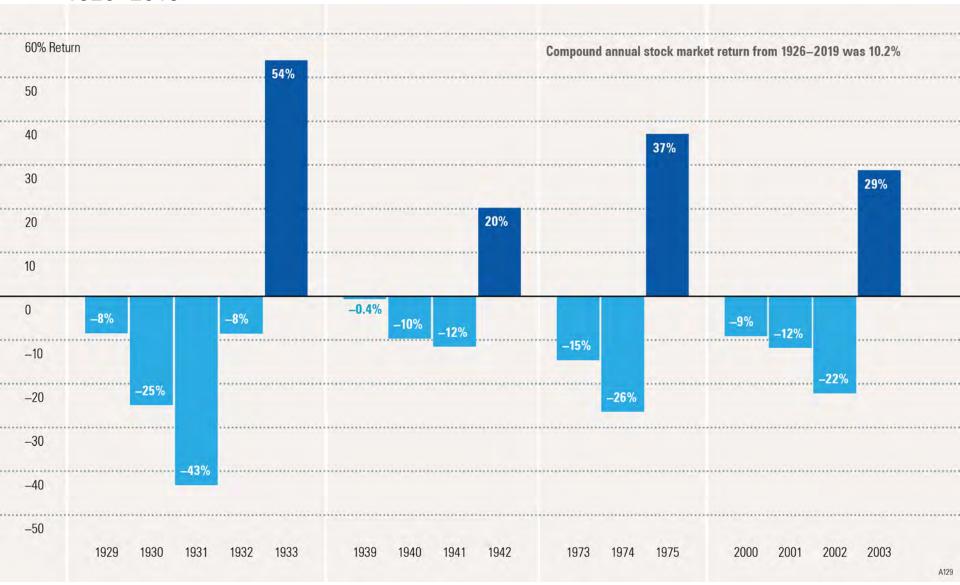


Market Downturns and Recoveries

Downturn	% Loss			Recovery
34 months	-83.4	Sep 1929–June 1932	July 1932–Jan 1945	151 months
6 months	-21.8	June 1946–Nov 1946	Dec 1946–Oct 1949	35 months
7 months	-10.2	Aug 1956–Feb 1957	March 1957–July 1957	5 months
5 months	-15.0	Aug 1957–Dec 1957	Jan 1958–July 1958	7 months
6 months	-22.3	Jan 1962–June 1962	July 1962–April 1963	10 months
8 months	-15.6	Feb 1966–Sep 1966	Oct 1966–March 1967	6 months
19 months	-29.3	Dec 1968–June 1970	July 1970–March 1971	9 months
21 months	-42.6	Jan 1973–Sep 1974	Oct 1974–June 1976	21 months
14 months	-14.3	Jan 1977–Feb 1978	March 1978–July 1978	5 months
20 months	-16.5	Dec 1980–July 1982	Aug 1982–Oct 1982	3 months
3 months	-29.6	Sep 1987–Nov 1987	Dec 1987–May 1989	18 months
5 months	-14.7	June 1990–Oct 1990	Nov 1990–Feb 1991	4 months
2 months	-15.4	July 1998–Aug 1998	Sep 1998–Nov 1998	3 months
25 months	-44.7	Sep 2000–Sep 2002	Oct 2002–Oct 2006	49 months
16 months	-50.9	Nov 2007–Feb 2009	March 2009–March 2012	37 months
3 months	-13.5	Oct 2018–Dec 2018	Jan 2019–Apr 2019	4 months



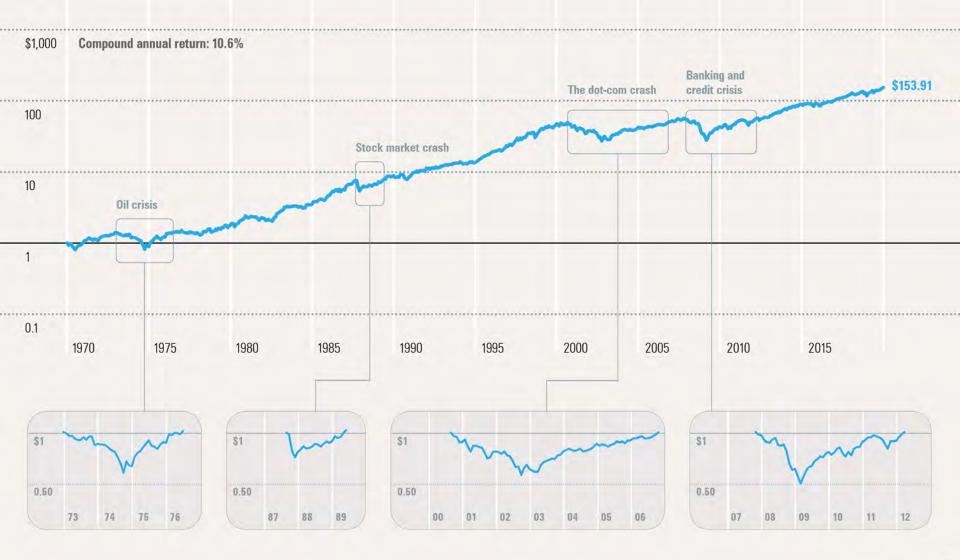
Periods of Consecutive Negative Stock Returns





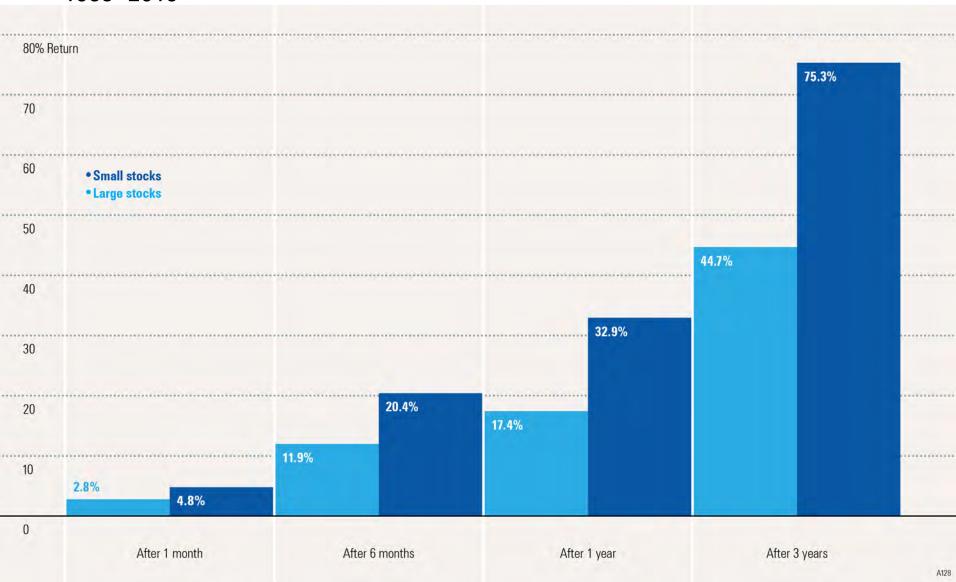
Crises and Long-Term Performance

Market Declines in Historical Context, January 1970 – December 2019





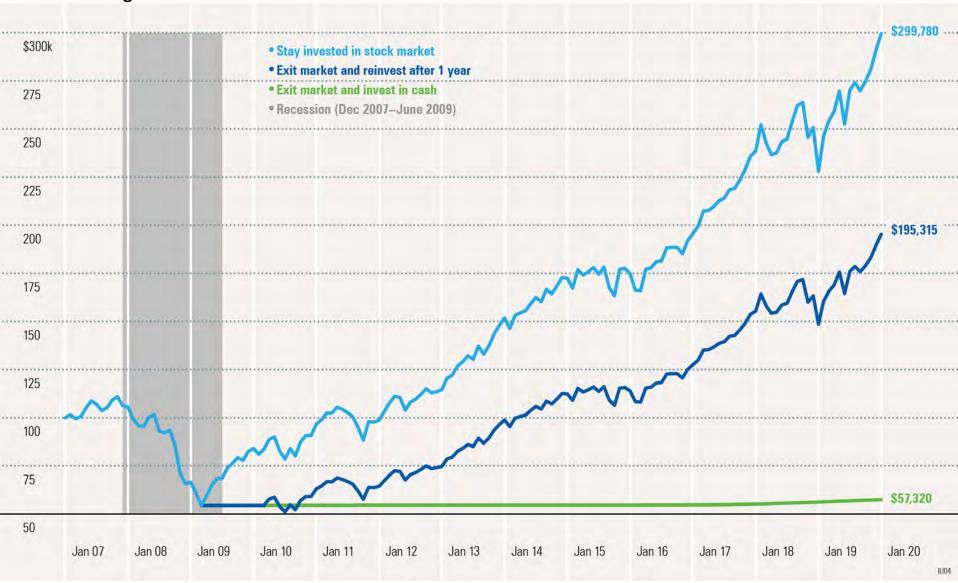
Stock Performance After Recessions





The Importance of Staying Invested

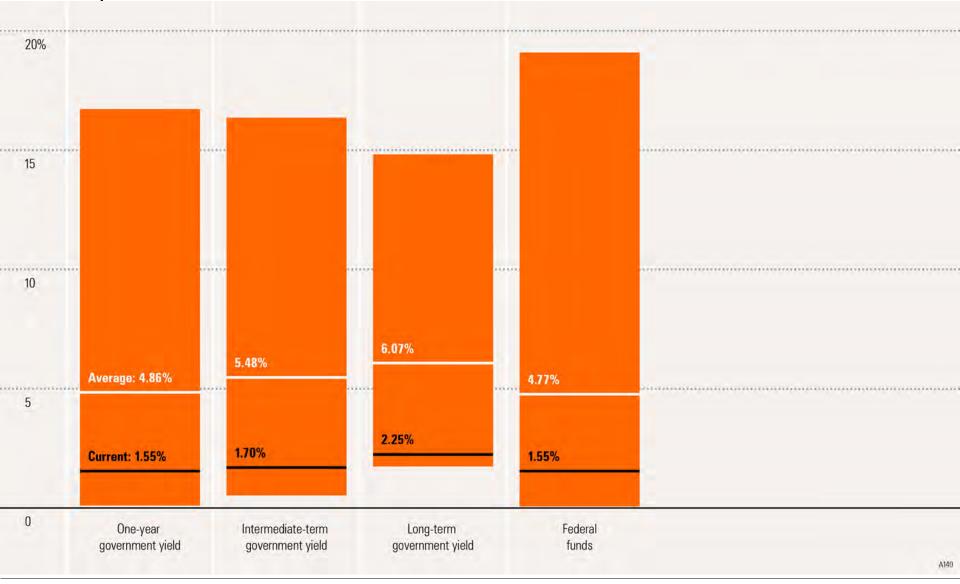
Ending Wealth Values After a Market Decline





History of Interest Rates

July 1954—December 2019





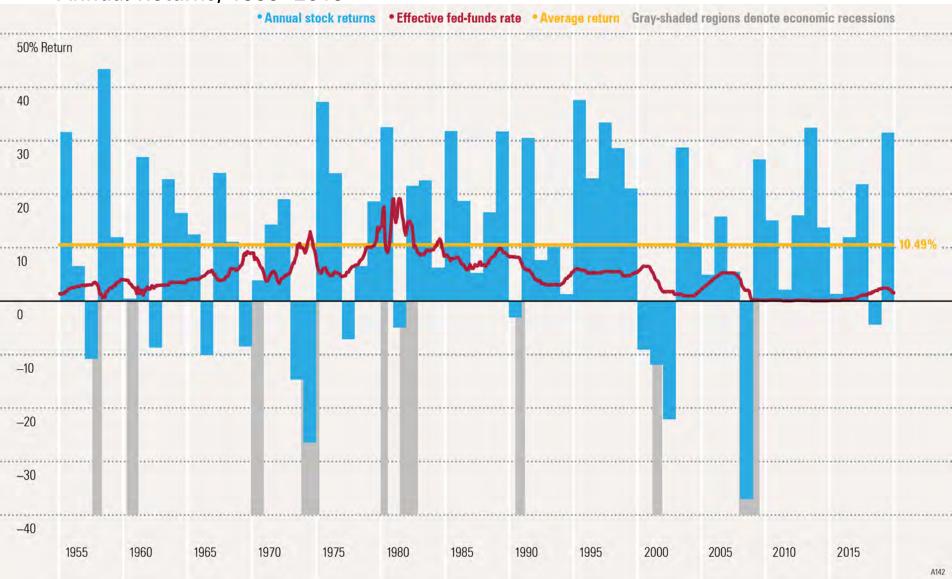
Bond Yields During Recessions





Stock Returns and Monetary Policy

Annual Returns, 1955-2019





Correlations of Various Asset Classes with the Market

January 1980–December 2019

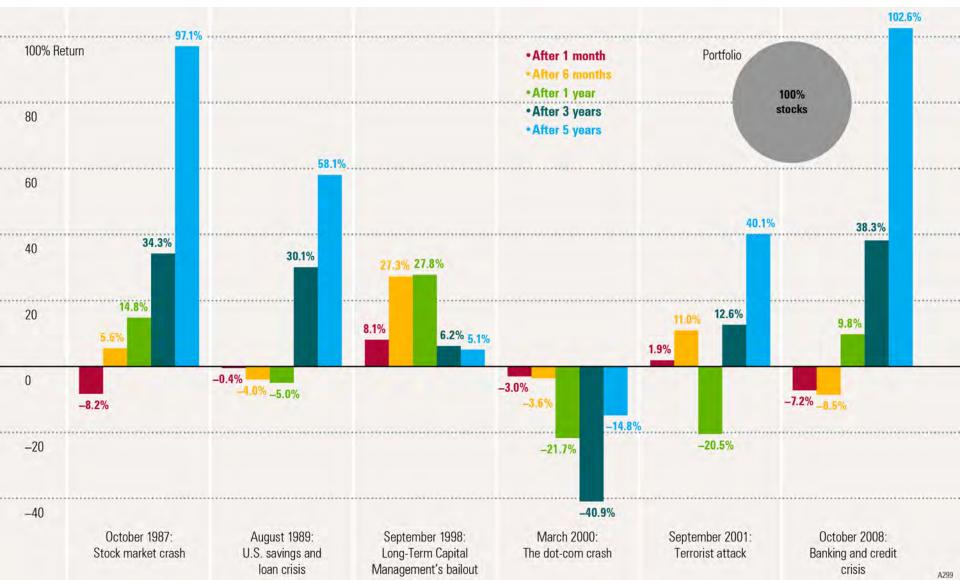
	Before recession Jan 1980–Nov 2007	During recession Dec 2007–Jun 2009	Entire period Jan 1980-Dec 2019
Small stocks	0.72	0.95	0.77
nternational stocks	0.57	0.93	0.67
Commodities	0.08	0.51	0.24
REITs	0.47	0.83	0.56
Gold	0.05	-0.06	0.04
Long-term corp bonds	0.23	0.34	0.18
Long-term govt bonds	0.18	0.03	0.03
Intermediate-term govt bonds	0.12	-0.32	0.03
Treasury bills	0.00	-0.11	0.01

*Low *Medium *High



U.S. Market Recovery After Financial Crises

Cumulative Return of All-Stock Portfolio After Various Events

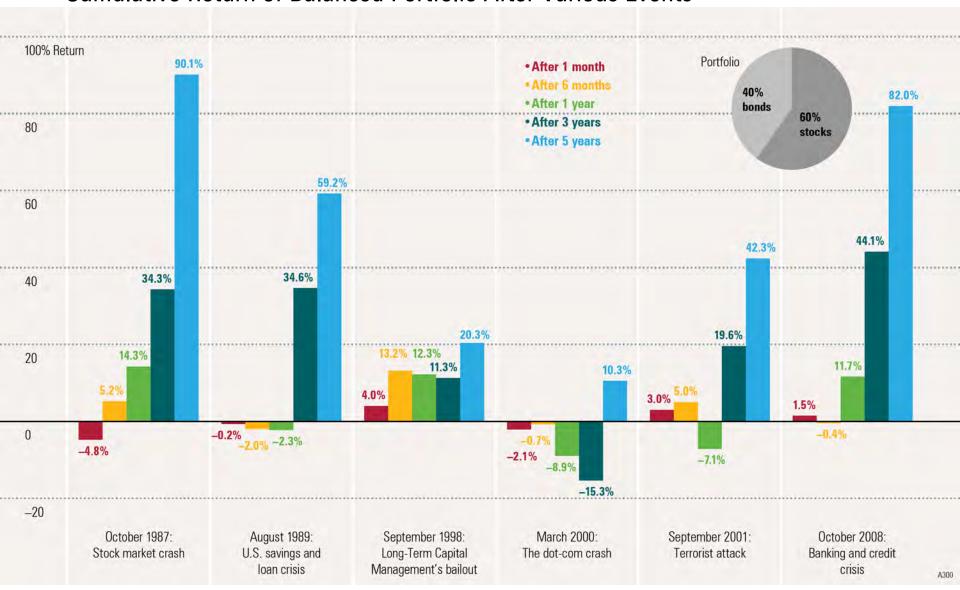


Past performance is no guarantee of future results. Returns reflect the percentage change in the index level from the end of the month in which the event occurred to one month, six months, one year, three years and five years after. This is for illustrative purposes only and not indicative of any investment. An investment cannot be made directly in an index. © Morningstar 2020. All Rights Reserved.



U.S. Market Recovery After Financial Crises

Cumulative Return of Balanced Portfolio After Various Events



Past performance is no guarantee of future results. Returns reflect the percentage change in the index level from the end of the month in which the event occurred to one month, six months, one year, three years and five years after. This is for illustrative purposes only and not indicative of any investment. An investment cannot be made directly in an index. © Morningstar 2020. All Rights Reserved.

