

Putting The COVID-19 Selloff in Perspective

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Comparing Past Epidemics with COVID-19

		SARS	Human Swine Influenza	MERS	Avian Influenza	2019-nCOV Coronavirus
	Confirmed Cases	5,327	128,033	1 (traveler)	1,537	81,116
	Fatalities	349	805	_	619	3,231
China	Mortality Rate	6.6%	0.6%	_	40.3%	4.0%
Mainland China	Geographic Spread	75% confirmed cases took place in Beijing and Guangdong , which combined accounted for 15% of national GDP	Widespread across the country	_	80% of confirmed cases took place in Zhejiang , Guangdong , Jiangsu , and Shanghai , which combined accounted for 30% of national GDP	84% of confirmed cases took place in Hubei, which takes up 4% of national GDP
_	Confirmed Cases	8,098	11% - 21% Global	2,494	1,568	191,127
Global	Fatalities	774	> 18,449	858	615	7,807
0	Mortality Rate	9.6%	0.001% - 0.007%	34.4%	39.2%	4.1%
Period	Date Range*	Feb 03-Apr 03	Apr 09–Aug 10	Sep 12–Nov 12	Jan 04-Sep 04	Dec 19–present
Per	Trading Days	38	332	48	166	54

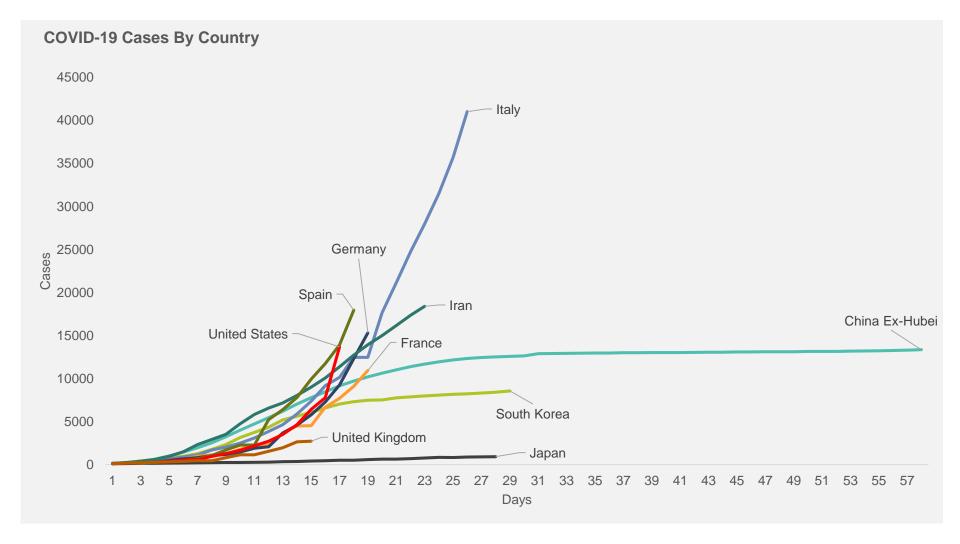
Analysis provided for illustrative purposes only and is subject to revision.

As of March 18, 2020

Source: John Hopkins University, Morgan Stanley Research, WHO and AB; See Disclosures and Important Information.

^{*}Represents periods when the outbreaks initially became endemics or pandemics These date ranges are not official, rather subjective judgments based on WHO reports. Date range for avian influenza represents initial H5N1 outbreak.

Cases By Country: Seeking A Flatter Curve



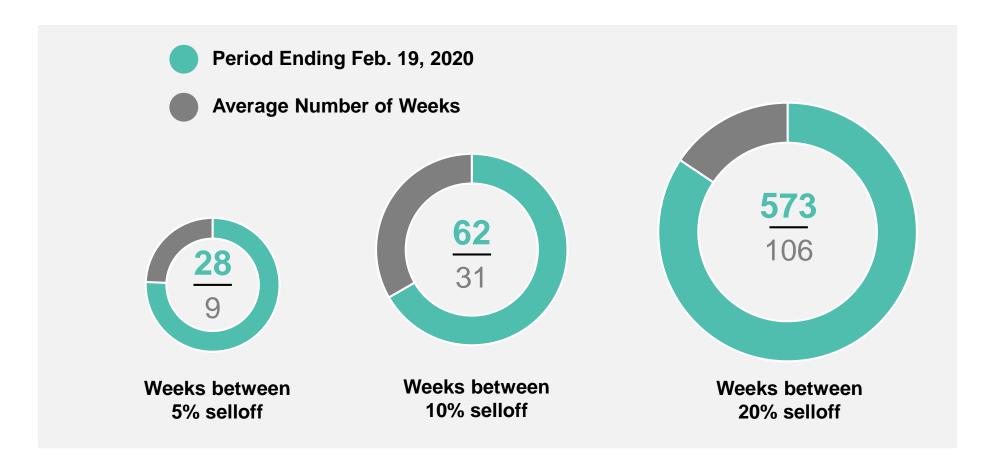
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The data tracks cumulative cases by country for select countries/regions that have >100 cases. Day 0 is the day of case 100 Source: John's Hopkins University, AB

Time Between Market Selloffs

S&P 500 Since 1928 (Total Return)



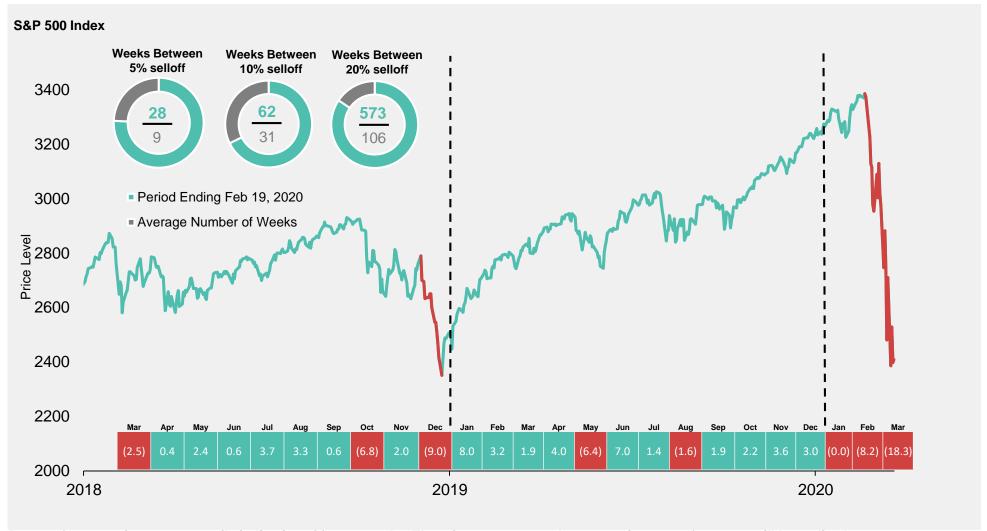
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Numbers above are as of the recent market high on February 19th, 2020.

Source: S&P and AB

Risk Finally Returned After Period of Calm

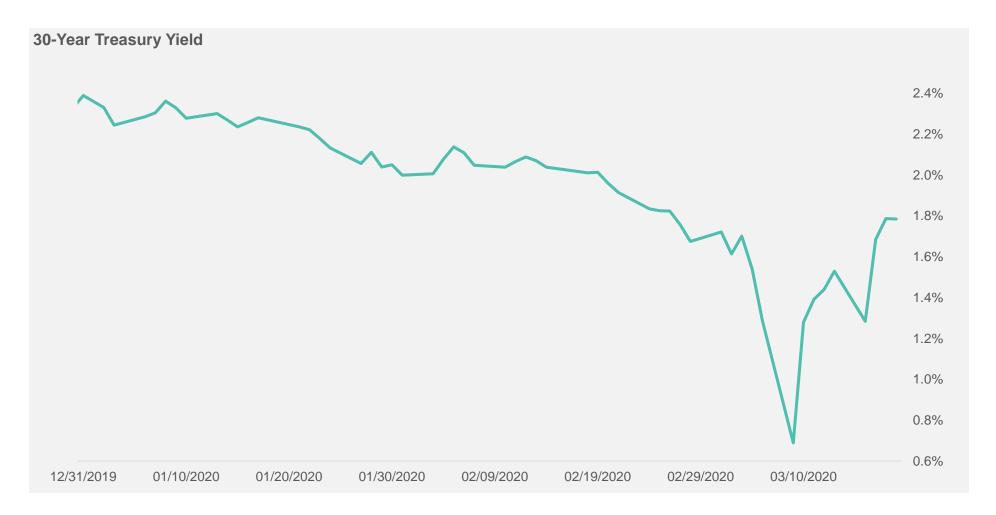


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Monthly return figures are based on total returns for each month, which include dividends.

As of March 19, 2020 Source: S&P and AB

A Lack of Liquidity in Long-Term Treasuries Caused Volatility in Rates



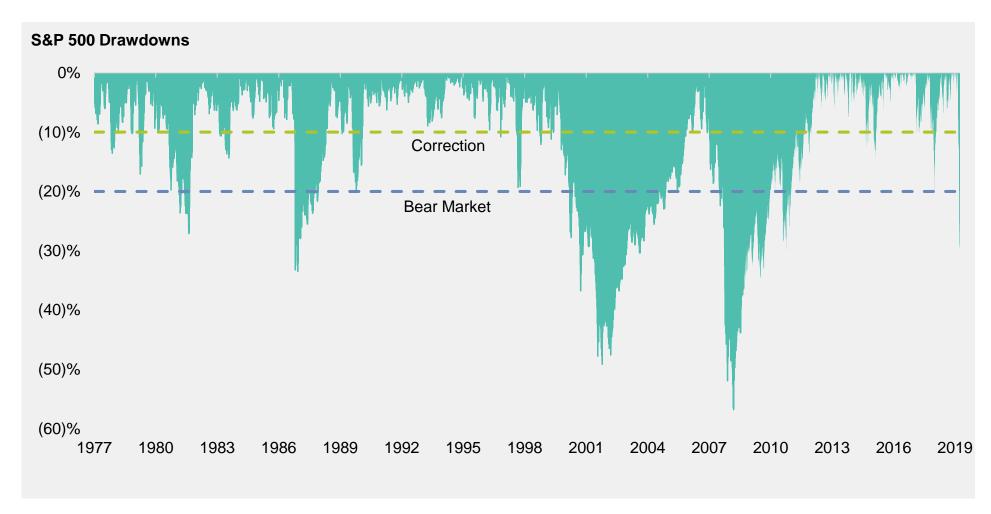
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The March 9th value represents the intraday low. All other values are the daily closing yields.

Source: Bloomberg, Factset, AB

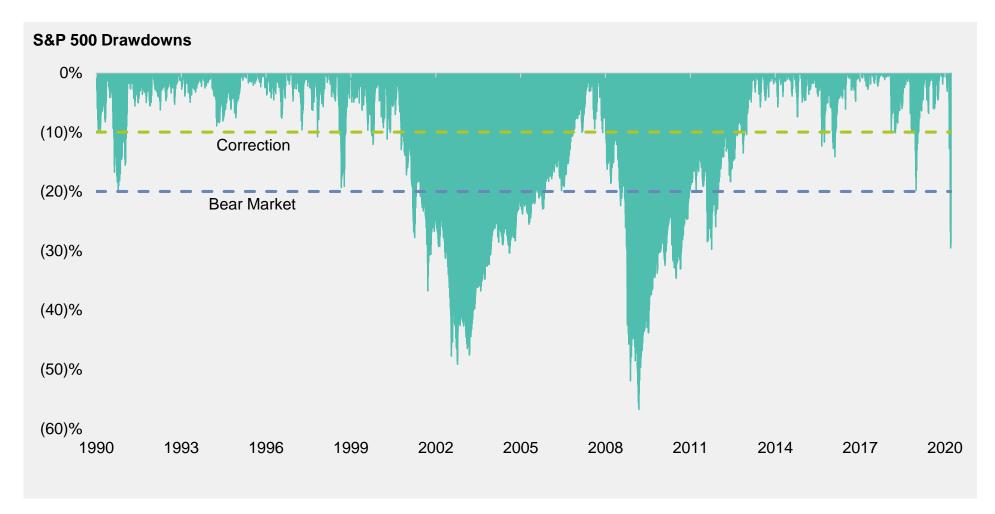
Corrections and Bear Markets Since 1977



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As of March 19, 2020

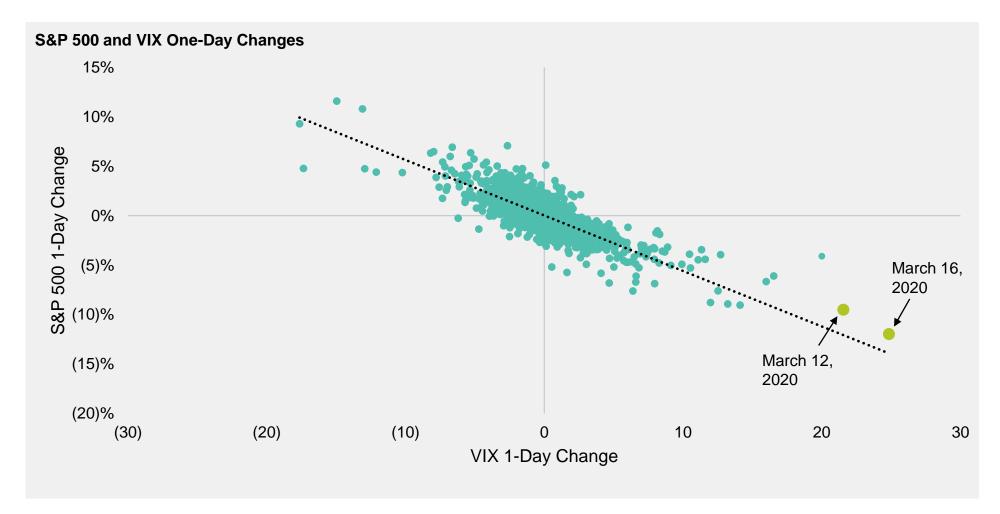
Corrections and Bear Markets Since 1990



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As of March 19, 2020

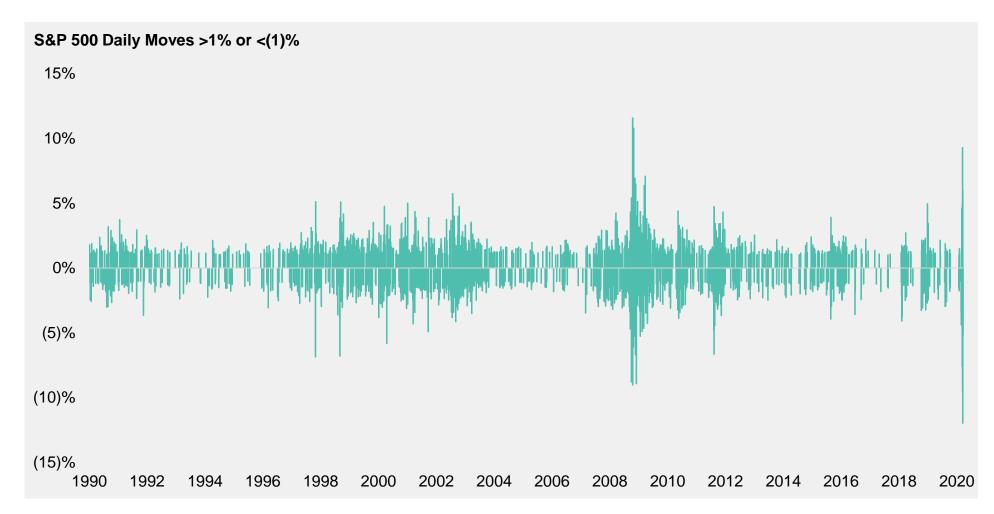
Daily Change In the S&P and VIX Indexes



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As of March 19, 2020 Data starts 1/1/1990

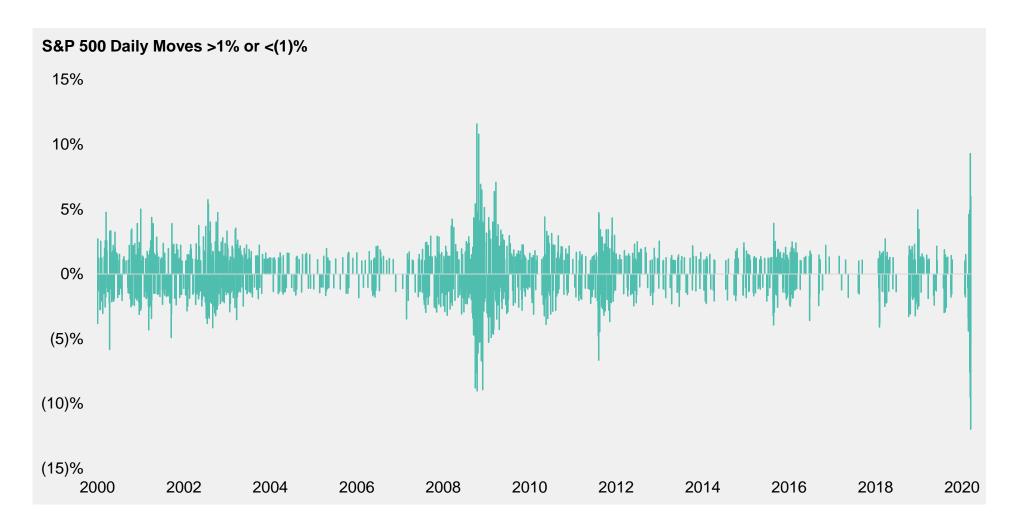
2020 In Perspective – One Day Moves (Since 1990)



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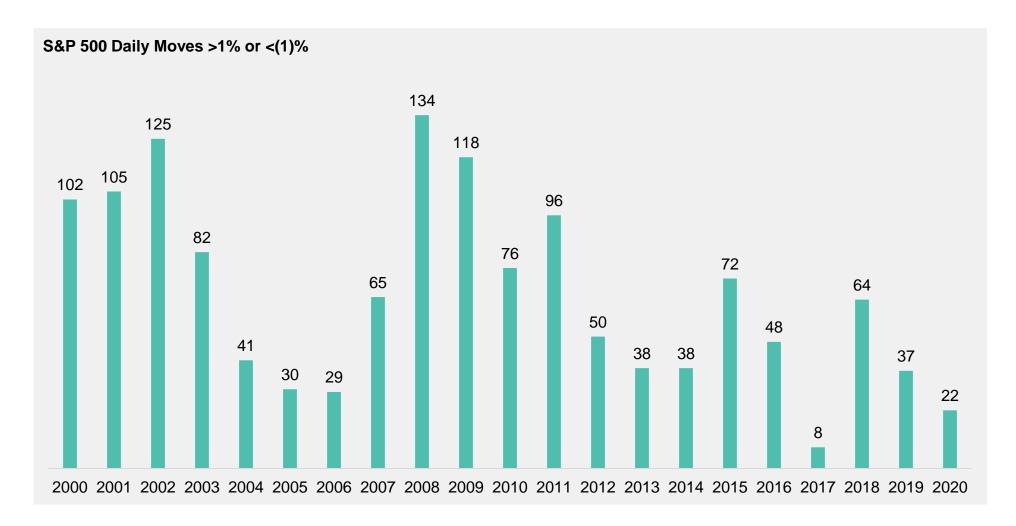
2020 In Perspective – One Day Moves (Since 2000)



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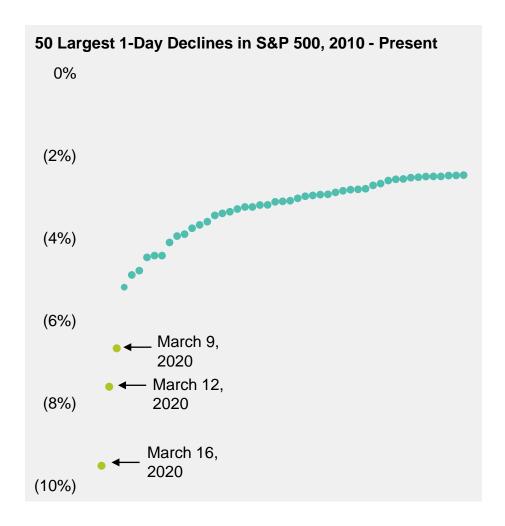
Quantifying Large Moves Since 2000

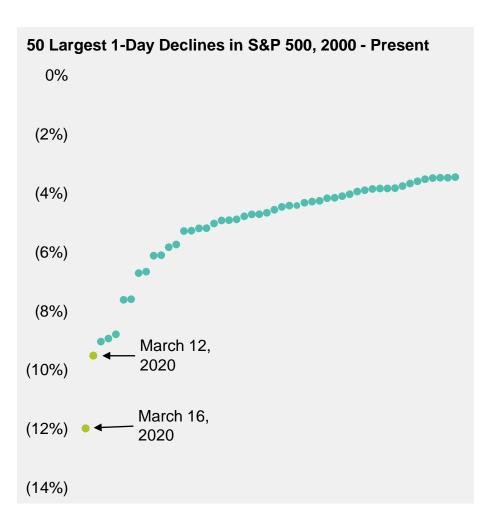


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March 2020's Large Declines In Perspective

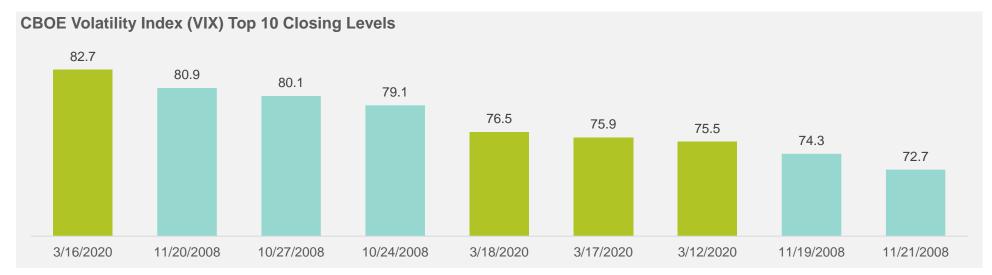




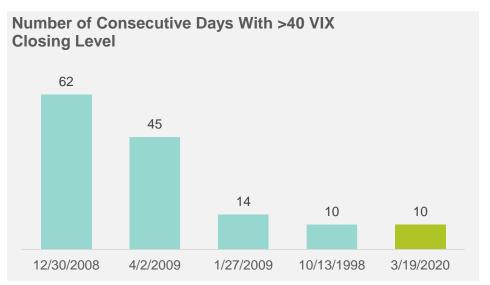
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Current Decline & Volatility Among Unique Company





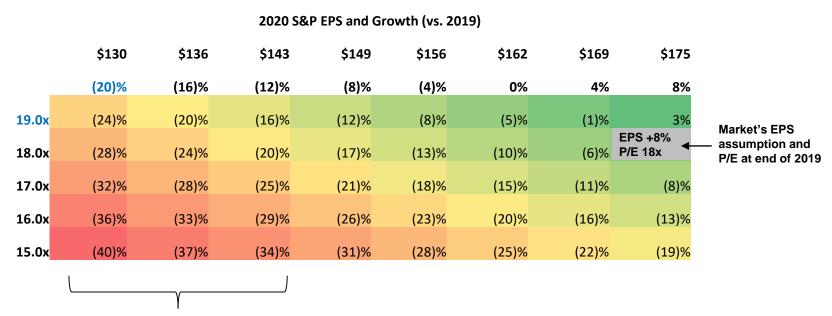


Past performance does not guarantee future results.

As of 3/19/20

Source: Bloomberg, CBOE, S&P, AB

COVID-19: What's Priced In? An Attempt At Quantification



Consensus has quickly moved to assuming a double-digit decline in S&P 500 EPS in 2020.

Given that level of earnings contraction, depending on one's P/E assumption, the current market decline seems justified.

Past performance does not guarantee future results.

As of March 19, 2020

Market Selloffs Since WWII

Peak Month	Trough Month	Peak to Trough Months	Peak to Trough Fall	Peak to Recovery Months	Weeks from Start to Down 20%
5/29/1946	5/19/1947	12	(25)%	40	15
12/12/1961	6/26/1962	6	(27)%	16	24
2/9/1966	10/7/1966	8	(20)%	13	34
11/29/1968	5/26/1970	18	(33)%	28	73
1/11/1973	10/3/1974	21	(45)%	42	47
11/28/1980	8/12/1982	20	(20)%	22	89
8/25/1987	10/19/1987	2	(33)%	21	8
9/1/2000	10/9/2002	25	(47)%	74	27
10/9/2007	3/9/2009	17	(55)%	54	40
2/19/2020	N/A	N/A	(29)%	N/A	3
Average Excluding 2020		16	(35)%	34	40

As of March 19, 2020

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Bear markets are defined as a market decline of 20% from its previous high through the lowest close after the 20% decline. All returns in this analysis are based on the S&P 500 total return index, which includes gains from price returns and dividend returns. Recoveries are defined as the day after the trough that the total return index reaches a level higher than the prior peak.

Source: Bloomberg, S&P, AB

Geopolitical Events Only Rarely Have a Lasting Market Impact

Select Geopolitical Events since 1970 and S&P 500 Returns (%)

First				
Trading Day 1	l Week	1 Month 1	Quarter	1 Year
6/19/1972	(0.1)	(1.4)	0.4	(3.0)
10/8/1973	1.4	(3.9)	(10.0)	(43.2)
3/28/1979	(0.1)	(0.7)	(0.2)	(4.2)
11/5/1979	(1.0)	3.6	12.3	24.3
3/30/1981	0.6	0.6	(1.6)	(16.9)
1/28/1986	3.2	9.3	16.8	32.0
11/3/1986	0.7	2.1	12.3	3.2
8/2/1990	(4.7)	(8.9)	(12.8)	12.8
1/17/1991	4.5	17.2	23.6	36.6
4/29/1992	2.0	2.3	2.8	10.2
2/26/1993	1.2	2.1	2.2	8.3
4/19/1995	1.4	3.1	11.3	30.5
7/29/1996	4.3	4.6	10.8	50.6
8/7/1998	(1.3)	(10.5)	5.1	21.0
10/12/2000	(1.6)	0.2	(2.5)	(18.5)
11/7/2000	(5.6)	(5.5)	(5.3)	(20.9)
9/17/2001	(4.9)	(0.9)	4.7	(15.5)
10/8/2001	1.9	3.0	9.8	(24.2)
	Trading Day 6/19/1972 10/8/1973 3/28/1979 11/5/1979 3/30/1981 1/28/1986 11/3/1986 8/2/1990 1/17/1991 4/29/1992 2/26/1993 4/19/1995 7/29/1996 8/7/1998 10/12/2000 11/7/2000 9/17/2001	Trading Day 1 Week 6/19/1972 (0.1) 10/8/1973 1.4 3/28/1979 (0.1) 11/5/1979 (1.0) 3/30/1981 0.6 1/28/1986 3.2 11/3/1986 0.7 8/2/1990 (4.7) 1/17/1991 4.5 4/29/1992 2.0 2/26/1993 1.2 4/19/1995 1.4 7/29/1996 4.3 8 8/7/1998 (1.3) 10/12/2000 (1.6) 11/7/2000 (5.6) 9/17/2001 (4.9)	Trading Day 1 Week 1 Month 1 6/19/1972 (0.1) (1.4) (1.4) (1.4) (3.9) 3/28/1979 (0.1) (0.7) 11/5/1979 (1.0) 3.6 3/30/1981 0.6 0.6 1/28/1986 3.2 9.3 11/3/1986 0.7 2.1 8/2/1990 (4.7) (8.9) 1/17/1991 4.5 17.2 4/29/1992 2.0 2.3 2/26/1993 1.2 2.1 4/19/1995 1.4 3.1 7/29/1996 4.3 4.6 8/7/1998 (1.3) (10.5) 10/12/2000 (1.6) 0.2 11/7/2001 (5.6) (5.5) 9/17/2001 (4.9) (0.9)	Trading Day 1 Week 1 Month 1 Quarter 6/19/1972 (0.1) (1.4) 0.4 10/8/1973 1.4 (3.9) (10.0) 3/28/1979 (0.1) (0.7) (0.2) 11/5/1979 (1.0) 3.6 12.3 3/30/1981 0.6 0.6 (1.6) 1/28/1986 3.2 9.3 16.8 11/3/1986 0.7 2.1 12.3 8/2/1990 (4.7) (8.9) (12.8) 1/17/1991 4.5 17.2 23.6 4/29/1992 2.0 2.3 2.8 2/26/1993 1.2 2.1 2.2 4/19/1995 1.4 3.1 11.3 7/29/1996 4.3 4.6 10.8 8/7/1998 (1.3) (10.5) 5.1 10/12/2000 (1.6) 0.2 (2.5) 11/7/2000 (5.6) (5.5) (5.3) 9/17/2001 (4.9) (0.9) 4.7

Key Takeaway: Stocks have generally shrugged off geopolitical events, since they rarely have a lasting impact on the business cycle.

	First				
Event	Trading Day	1 Week	1 Month 1	Quarter	1 Year
SARS**	2/11/2003	(0.1)	(3.2)	12.2	39.5
Second Gulf War	3/20/2003	(0.5)	2.4	14.3	29.2
Madrid Train Bombings	3/11/2004	0.0	1.5	1.5	9.5
Orange Revolution–Ukraine	11/22/2004	1.1	2.2	3.1	8.6
Asian Tsunami	12/27/2004	0.3	(3.4)	(2.7)	6.8
London Bombings	7/7/2005	2.4	2.7	0.2	8.6
Hurricane Katrina	8/29/2005	1.1	1.0	5.7	9.5
Arab Spring	12/17/2010	1.2	4.2	1.6	0.2
Hurricane Sandy	10/29/2012	1.1	(0.0)	7.0	27.3
Boston Marathon Bombing	4/15/2013	(2.1)	3.0	6.3	16.7
Russia/Ukraine/Crimea	2/27/2014	1.6	0.5	3.5	16.8
Greek Referendum	11/5/2015	(1.2)	(0.3)	(8.4)	1.4
Brexit	6/24/2016	(0.7)	3.1	3.0	17.8
Trump Surprise Election Win	11/8/2016	1.6	5.4	8.1	24.0
Hurricane Harvey/Irma/Maria	8/25/2017	1.4	2.8	7.2	20.2
US-China Trade War [†]	1/22/2018	2.2	(2.6)	(3.7)	(3.1)
Coronavirus Outbreak	2/19/2020	(7.1)	(28.7)	N/A	N/A

Summary	1 Week	1 Month	1 Quarter	1 Year
Average	0.1	0.2	4.1	9.3
% of Events Negative	40	37	29	29
Conflict/War Avg.	0.7	1.7	4.7	4.7
Terrorism Avg.	(0.1)	0.7	4.4	12.4
Political Avg.	(0.2)	1.1	2.4	5.3
Environmental Avg.	0.8	(0.1)	3.4	11.9
Social Avg.	(0.5)	(3.9)	7.6	16.2

As of 3/19/20

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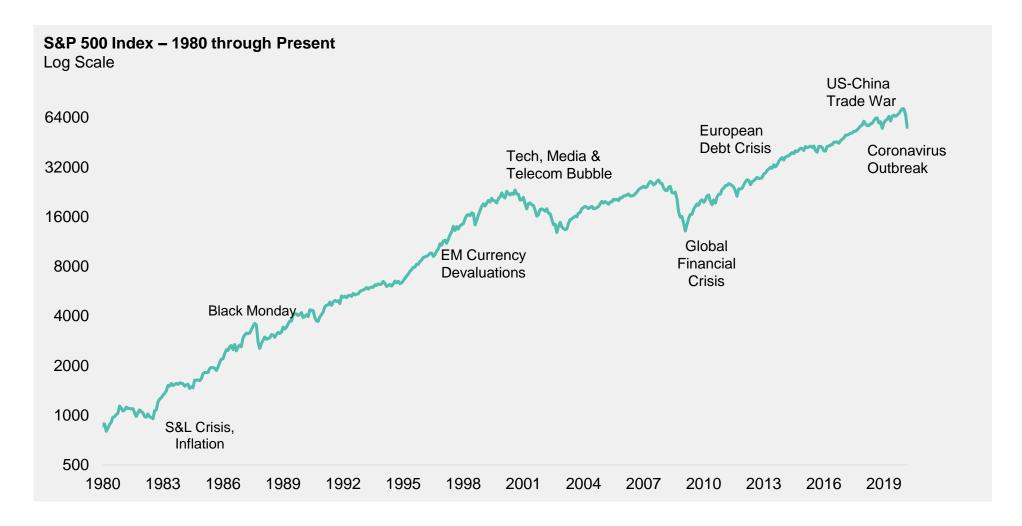
Source: FactSet, National Bureau of Economic Research, World Heath Organization, S&P, and AB

^{*}Denotes the geopolitical event occurred during a recession or six months prior to the start of a recession

^{**}Date that China officially notified the WHO of the outbreak.

[†]Tariffs on imports of solar panels and washing machines imposed.

The Price of Long-Term Growth Has Always Been Periodic Uncertainty

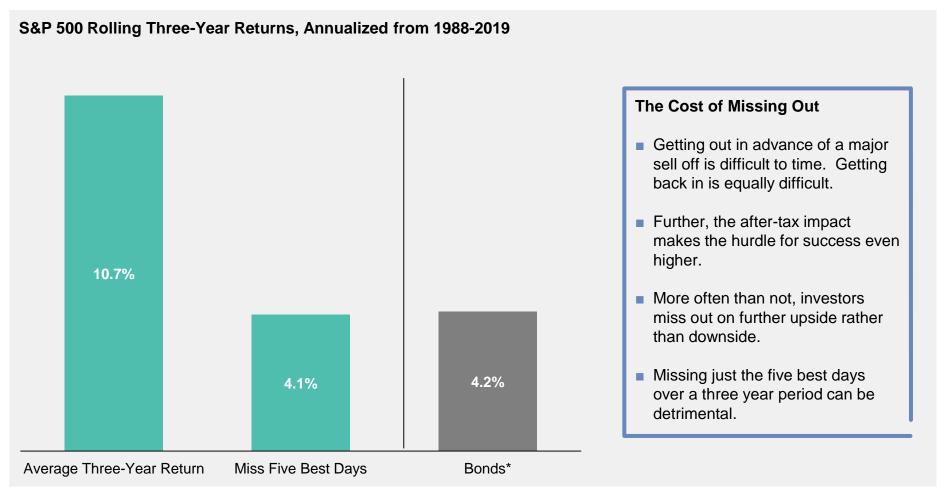


As of March 19, 2020

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Source: Bloomberg, S&P and AB

Timing the Market Means Getting Out and Getting Back In



As of March 19, 2020

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*Bonds represented by the Lipper Short/Intermediate Municipal Bond Fund Average Source: Bloomberg, Lipper, S&P and AB

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