How did we get here?

1) Covid-19?
2) Bull rally since 2009?
3) Oil?
4) $10+$ years with no recession?

## S\&P 500 Price Index



## CRUDE CURVE (MASSIVE CONTANGO) SIMILAR TO LATE '08


U.S. recessions and S\&P 500 composite declines from all-time highs


## Characteristics of bull and bear markets

|  | Bear M arket |  |  | Macro environment |  |  |  | Bull markets |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M arket correction | Market peak | Bear return* | Duration (months)* | Recession | Commodity Spike | Aggressive Fed | Extreme Valuation | Bull begin date | Bull return | Duration (months) |
| 1 Crash of 1929-Excessive leverage, irratio nal exuberance | Sep 1929 | -86\% | 32 | $\checkmark$ |  |  | $\checkmark$ | Jul 1926 | 152\% | 37 |
| 21937 Fed Tightening - Premature policy tightening | M ar 1937 | -60\% | 61 | $\checkmark$ |  | $\checkmark$ |  | M ar 1935 | 129\% | 23 |
| 3 Post WWII Crash - Post-war demobilization, recession fears | May 1946 | -30\% | 36 | $\checkmark$ |  |  | , | Apr 1942 | 158\% | 49 |
| 4 Eisenhower Recession - Worldwide recession | Aug 1956 | -22\% | 14 | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | Jun 1949 | 267\% | 85 |
| 5 Flash Crash of 1962 - Flash crash, Cuban M issile Crisis | Dec 1961 | -28\% | 6 |  |  |  | $\checkmark$ | Oct 1960 | 39\% | 13 |
| 61966 Financial Crisis - Credit crunch | Feb 1966 | -22\% | 7 |  |  | $\checkmark$ | $\checkmark$ | Oct 1962 | 76\% | 39 |
| 7 Tech Crash of 1970-Economic overheating, civil unrest | Nov 1968 | -36\% | 17 | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | Oct 1966 | 48\% | 25 |
| 8 Stagflation-OPEC oil embargo | Jan 1973 | -48\% | 20 | $\checkmark$ | $\checkmark$ |  |  | May 1970 | 74\% | 31 |
| 9 Volcker Tightening - Whip Inflation Now | Nov 1980 | -27\% | 20 | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | M ar 1978 | 62\% | 32 |
| 101987 Crash - Program trading, overheating markets | Aug 1987 | -34\% | 3 |  |  |  | , | Aug 1982 | 229\% | 60 |
| 11 Tech Bubble-Extreme valuations, .com boom/bust | M ar 2000 | -49\% | 30 | $\checkmark$ |  |  | - | Oct 1990 | 417\% | 113 |
| 12 Global Financial Crisis - Leverage/housing, Lehman collapse | Oct 2007 | -57\% | 17 | $\checkmark$ | , | $\checkmark$ |  | Oct 2002 | 101\% | 60 |
| 13 Global Slowdown-COVID-19, oil price war | Feb 2020 | -24\% | 1 | $\checkmark$ |  |  |  | M ar 2009 | 401\% | 132 |
| Averages | - | -42\% | 22 |  |  |  |  | - | 166\% | 54 |



## Federal Reserve Actions:

- March $3^{\text {rd }}$
- March $15^{\text {th }}$
- March $23^{\text {rd }}$
- April $9^{\text {th }}$

Rate cut to 1 percent

Rate cut to a range of $0 \%$ to $.25 \%$

Announced "unlimited QE"
Buy Bonds not covered by QE - corporate debt and nonmortgage debt (student, auto \& CC loans)
Originally had to be BBB or higher - later lowered to "fallen angels" (bonds downgraded to junk territory from investment grade - F, OXY \& KHC)
\$500 billion to buy state \& large local government bonds $\$ 600$ billion PPP Ioans




## Excess Return


-2000



## STRUCTURAL LEADERS VS. LAGGARDS



THIS RALLY IS IN VERY GOOD COMPANY...

| S\&P Forward Performance Following Best 15-Day \% Changes (Top 10) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Date | 15-Day \% Change | +20-Days | +65-Days | +125-Days | +250-Days |
| 1. | 3/26/2009 | 22.0\% | 4.0\% | 11.3\% | 27.4\% | 40.2\% |
| 2. | 9/3/1982 | 18.1\% | -1.0\% | 16.3\% | 25.1\% | 32.5\% |
| 3. | 12/12/2008 | 16.9\% | -0.9\% | -10.9\% | 5.0\% | 25.3\% |
| 4. | 10/21/1974 | 15.7\% | -5.8\% | -1.9\% | 18.7\% | 21.6\% |
| 5. | 10/21/1982 | 15.5\% | -0.5\% | 0.7\% | 15.6\% | 22.6\% |
| 6. | 10/30/2002 | 14.7\% | 5.4\% | -4.8\% | 2.9\% | 17.5\% |
| 7. | 10/24/2011 | 14.1\% | -4.9\% | 5.0\% | 9.4\% | 14.3\% |
| 8. | 8/26/2002 | 13.6\% | -13.6\% | -3.7\% | -11.5\% | 4.8\% |
| 9. | 2/6/1991 | 13.3\% | 5.0\% | 4.9\% | 9.1\% | 14.4\% |
| 10. | 10/29/1998 | 13.2\% | 9.8\% | 17.1\% | 23.0\% | 19.4\% |
|  | Trading Day | 27.2\% | ? | ? | ? | ? |
|  |  | Average | -0.2\% | 3.4\% | 12.4\% | 21.3\% |
|  |  | \% Positive | 40.0\% | 60.0\% | 90.0\% | 100.0\% |
|  |  | Historical Average | 0.7\% | 2.2\% | 4.3\% | 8.8\% |
|  |  | Historical \% Positive | 61.1\% | 66.0\% | 70.2\% | 73.8\% |

## S\&P 500 intra-year declines vs. calendar year returns

Despite average intra-year drops of 13.8\%, annual returns positive in 30 of 40 years


S\&P 500 Index: Forward P/E ratio


