

Markets and Macroeconomics

Brown Socially Responsible Investment Fund 04/09/2020

- Equity Market (*****)
 - S&P, Dow Jones, other equity market indices
 - Trends in recent equity market movement
 - Recent IPO activities
- Credit Market (****)
 - Fed Funds Rate, U.S. Treasury Yield, other credit indices
 - Recent activity of Fed and impact on credit market
 - Sentiment towards IG Bonds, Non-IG Bonds
 - Recent LBO activities, distressed/default in credits

• Macroeconomics (*****)

- Overall economic outlook (impact of COVID-19)
- Unemployment rates, manufacturing index, retail index, inflation, other macro indices
- Other Types of Markets (**)
 - Forex, Commodity, etc.
- *International Market (**)

Equity Markets

• S&P 500, Dow Jones

- Basic indicators of how equity markets are doing
- Speak to their recent trends, and how they're doing relative to historic values
- Be aware of any industry specific (technology, industrials, etc.) trends that may be affecting the greater economy or have an imbalance affect on these indices as a whole

• IPOs

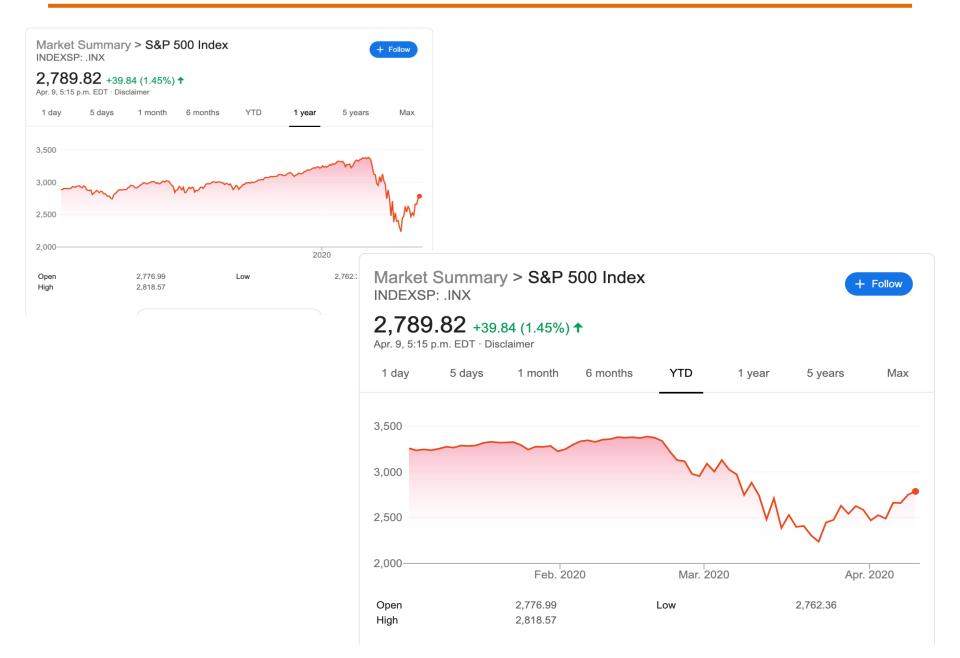
- Take note of any public offerings by well-known or otherwise interesting companies
- Speak to the general IPO landscape

Equity Markets (Recent News)

• S&P 500, Dow Jones

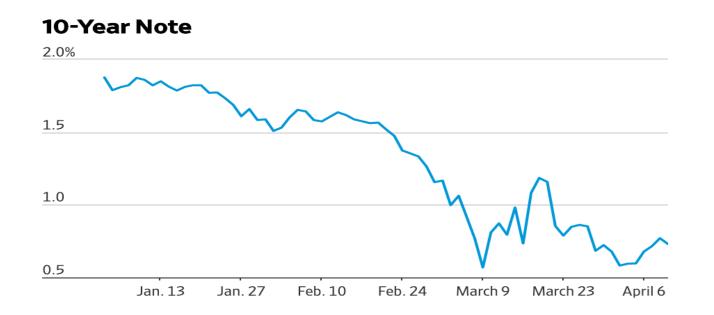
- Dow: Been on a steady downward trend since late February (peaked at 28.9K), saw a low of 18.6K on March 23, and has since regained some speed at 23.7K
- S&P followed more or less the same behavior (with different intermediate values)
- Influenced by initial reactions to COVID-19, and brought on upward trend by stimulus package and general regaining of consumer confidence
- IPOs (<u>https://www.iposcoop.com/last-100-ipos/</u>)
 - Activity very much slowed (only 6 IPOs since 2/28)
 - For some perspective, in 2019 there were 159 IPOs (average of 13.25 per month)
 - Of those 6, 4 were healthcare companies

Equity Markets (Recent News)



Credit Market

- The Important Numbers:
 - Fed Funds Rate: The overnight interest rate at which banks lend to each other; it sets the overall tone for other interest rates in the U.S. It is currently at 0.25% (1.75 a month ago)
 - U.S. Treasury Yield: The yield on U.S. Treasury Securities, often known as risk-free assets. Most commonly look at 3mon, 10yr, and 30yr yields. This number reflects investors' appetite for riskless assets. General Rule: The lower the yield → the higher the demand → the more concerned investors are about risky assets. 10yr T-Bill Yield is at 0.72%
 - LIBOR (London Interbank Offered Rate): Another benchmark interest rate; before 2021, almost all floating rates are quoted at a spread to LIBOR. Current LIBOR at 1.04%, and if a revolver prices at L+300bps has an interest rate of 3.04%



LIBOR, other interest rate indexes

UPDATED: 04/07/2020

| | THIS WEEK | MONTH AGO | YEAR AGO |
|--------------------------------|-----------|-----------|----------|
| Bond Buyer's 20 bond index | 2.84 | 2.31 | 3.88 |
| FNMA 30 yr Mtg Com del 60 days | 2.52 | 2.46 | 3.76 |
| 1 Month LIBOR Rate | 0.86 | 0.81 | 2.48 |
| 3 Month LIBOR Rate | 1.32 | 0.78 | 2.58 |
| 6 Month LIBOR Rate | 1.22 | 0.77 | 2.63 |
| Call Money | 2.00 | 3.00 | 4.25 |
| 1 Year LIBOR Rate | 1.04 | 0.79 | 2.75 |

Credit Market

Basic Math/Relationship of Rates and Bonds

- When rates are high, lenders tend to lend more and borrow tend to borrow less
- When rates are low, borrowers tend to borrow more and lenders tend to lend less
- If rates go down then new bonds have lower coupon, so old ones have higher demand
- If rates go up then new bonds have higher coupon, so old bonds have lower demand
- Inverse relationship between bond prices and bond yields
- Bond prices is calculated as present value of future coupons + present value of par
 - If yield > coupon rate, bond is trading below par
 - If yield < coupon rate, bond is trading above par

Recent Fed Movements

- In order to fight COVID-19, Fed has **lowered interest rate to near 0** on March 15th and intends to keep it that low in the near term as way to stimulate critical business activities
 - Lower interest rate → cheaper to borrow → allows cheaper financing for businesses and hence more possibility for continuous operation in the current environment
- The Fed is issuing a \$2.3 trillion stimulus package to strengthen the U.S. economy
 \$500bn in loans to states and municipalities
 - \$600bn in loans through the Main Street Program
 - Unemployment benefits, student delay, healthcare package, etc.
- Fed also announced an unlimited quantitative easing plan, which means it will now buy as much government debt as it thinks is needed
 - Higher QE package comparing the financial crisis
 - O Increase money supply, provide more liquidity in the market, allows for cheaper borrowing in an already 0 zero interest environment → ultimate goal to further stimulate the economy

Common economic data

- GDP (Gross National Product)/GDP Growth Rate: Big picture of the overall economy
- Unemployment Rate: reflect strength of labor market
- Inflation Rate: On track to meet expectation or behind schedule
- Manufacturing Index: Show strength of industrial activities, which comprise a large part of the workforce and economy
- Consumer Index/Discretionary Spending: Show trends in consumer behaviors

Unemployment

- Total applicants to unemployment benefits surged to 17 million amid coronavirus pandemic
- Largely due to layoffs from business that suffered significant loss during the crisis, particularly in industries like restaurants and entertainment, leisure, hospitality, and transportation
- Pre-crisis, U.S. was at historical low of unemployment, signifying a strong labor market
- The current surge in unemployment might be relatively temporary, but it really depends on the duration of the virus and speed of recovery of U.S. economy

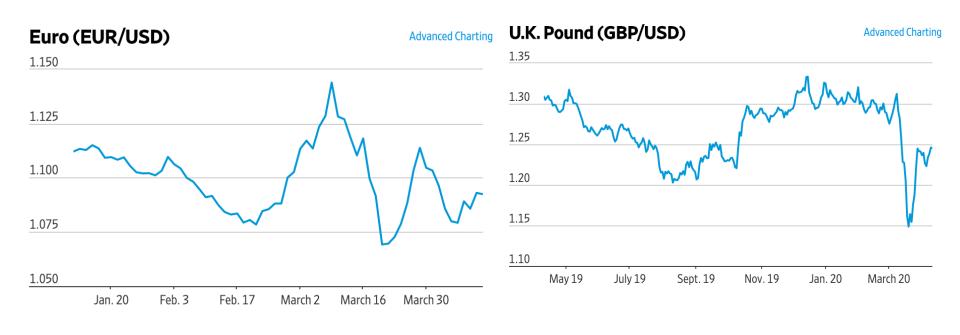
Manufacturing

- Amid the crisis, global manufacturing activities have slowed down and even came to a halt; Global supply chain is largely disrupted
- March manufacturing data shows decline in almost all sectors.
- The key metric -- manufacturing PMI fell to 49.5, fell by 1% from the February data, representing a negative growth (with a PMI < 50)
- New orders were down by 7.6%
- Production was off by 2.6% and entered into contraction category

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FOREX



 Chinese Yuan (USD/CNY)
 Advanced Charting

 7.2
 7.1

 7.0
 0

 6.9
 0

 6.9
 0

 6.9
 0

 6.8
 0

 Jan. 20
 Feb. 3

Commodity



May 19 July 19 Sept. 19 Nov. 19 Jan. 20 March 20

1200