

Stocks vs COVID19

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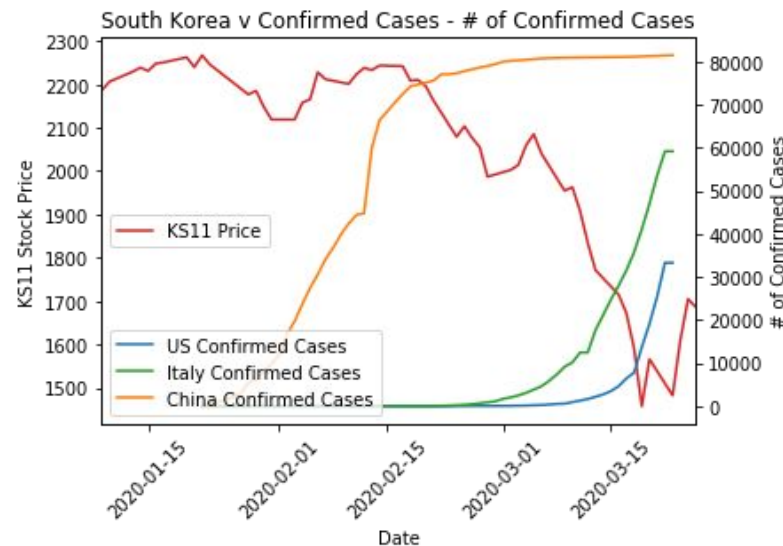
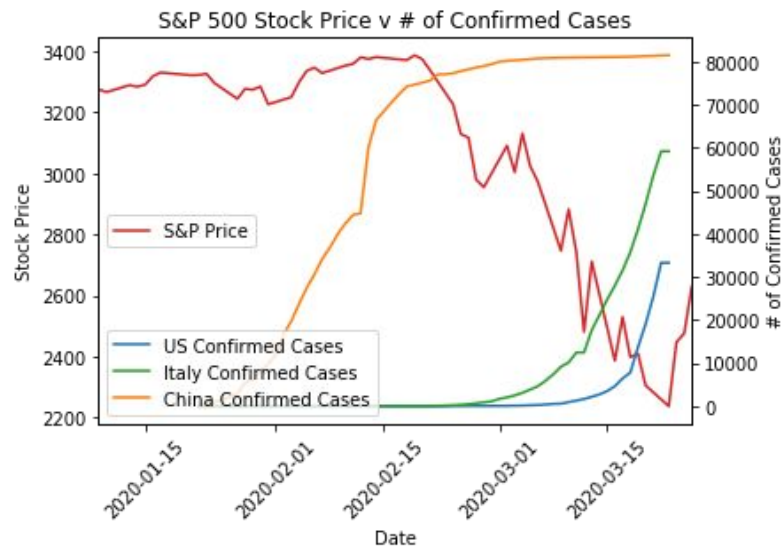
Question 3: Were countries' financial markets impacted more by cases in their country or global cases?

- Motivation: The goal of this question is to provide insight into how the spread and containment of the virus will impact global markets.
 - Focus Countries: South Korea, China, Italy & US.
- Data Sources:
 - Yahoo Finance API
 - Investing.com (Italy Finance Data)
 - Johns Hopkins (COVID 19 Data)
- Cleaning and Challenges:
 - One of our largest challenges was formatting, unix vs datetime.
 - Data sources are updated daily.
 - Figuring out if there a delay from cases being reported to markets responding
 - Also deciphering if it is local cases disrupting markets or global cases hitting critical levels.

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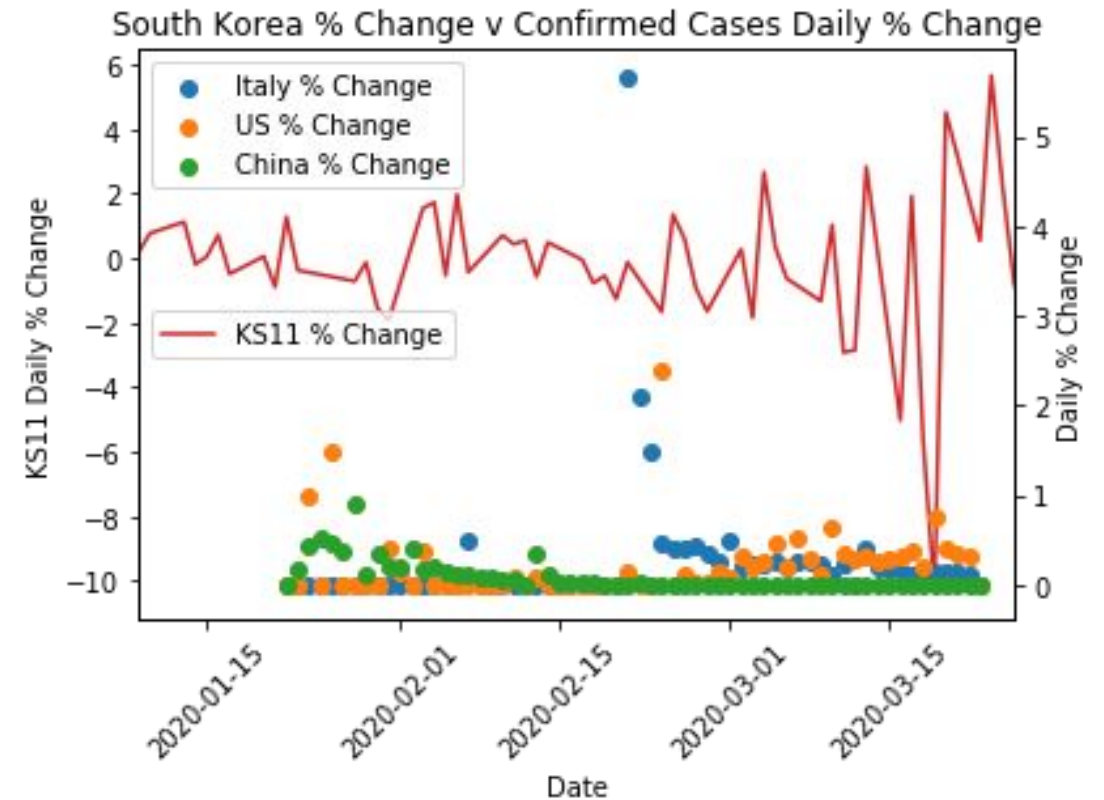
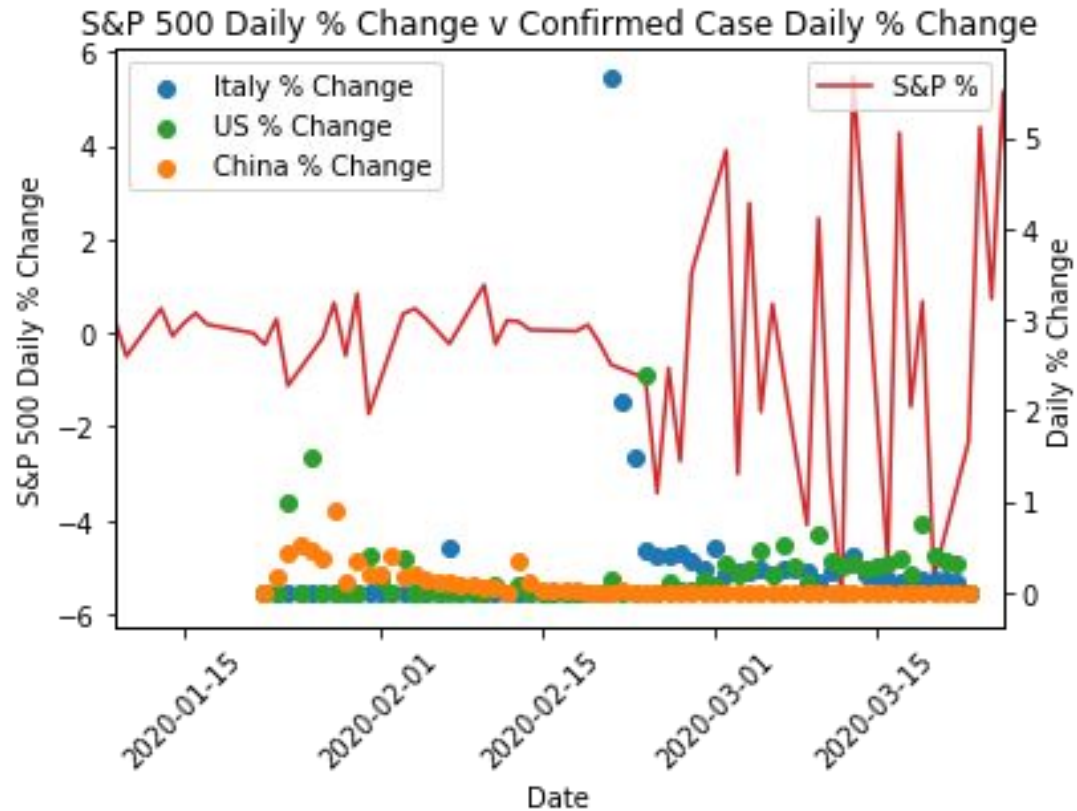
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The charts above show the Index fund of the 3 countries most commonly reported in the news, in regards to COVID19 cases, in conjunction with the number of cases reported by each country.

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- Conclusions:
 - The S&P500 appeared to react relatively balanced between global and US cases. It experienced large percent changes when Italian cases surged, implying that the global scale of virus spread drove fear in the market.
 - There have also been increased signs of volatility as US cases have grown and there has been little to mitigate spread.
 - South Korea's market has shown more stability through the global spread of the virus, until recently when they showed increased signs of volatility.
 - South Korea's market did not experience large daily changes even as cases surged globally.
- Limitations:
 - We are still early in the spread and containment of the virus, challenges understanding how recoveries will impact markets.
 - Not enough historical data to do a time series model to understand how new cases, recoveries and deaths will drive markets.