

Part 1: Economic Indicators

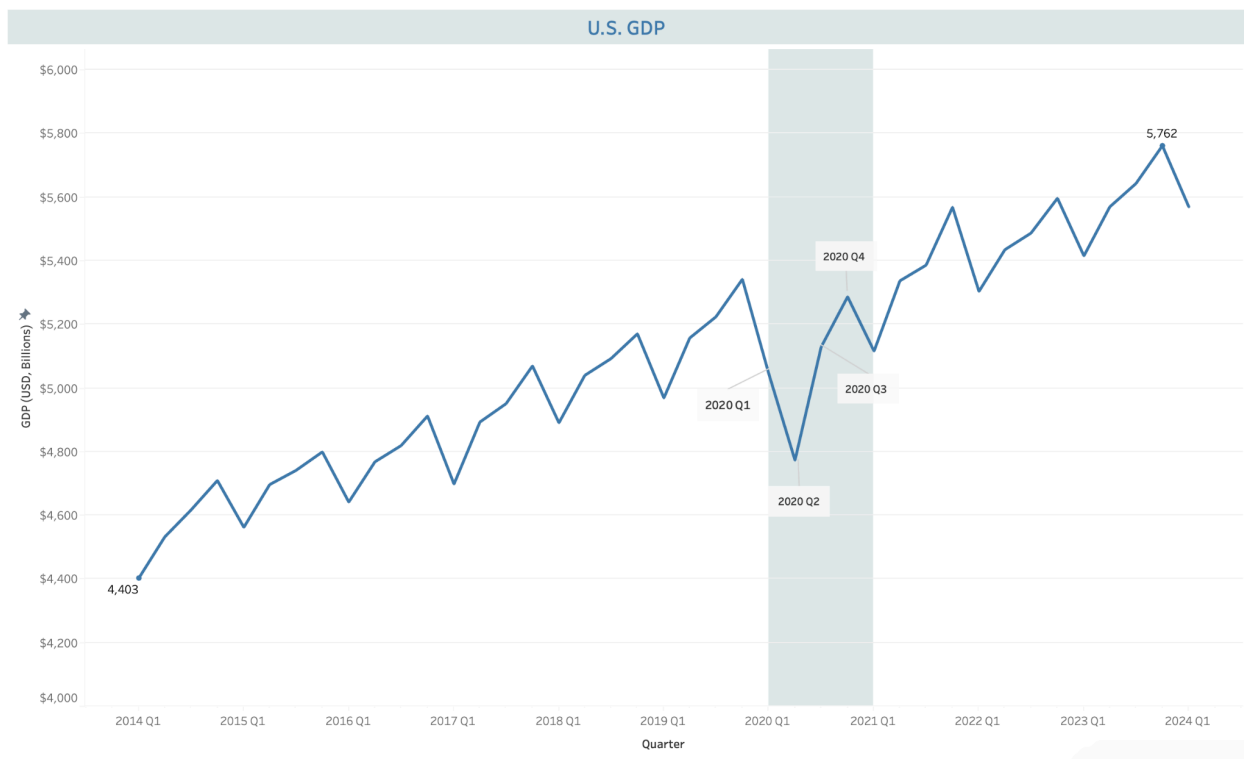
GDP

Data Wrangling

- Code has been annotated in Python to describe data retrieval process
- No changes were made to the data in Tableau

Analysis

- Note that GDP is only one measure of economic health and does not show the entire economic picture of a country at any given time
- The data shows that the U.S. GDP follows a consistent pattern, with valleys in Q1 of each year and peaks in Q4. This pattern is consistent in every year available in this dataset (since 2005) so only the past 10 years (2014-2024) are displayed in the chart for conciseness
- The gray shaded area indicates the year 2020, where one can see that Q2 GDP does not recover as it has in every previous year, but rather continues to decline
- Q3 and Q4 2020 however do bounce back and restart the familiar pattern of pre-pandemic growth for the remaining years shown



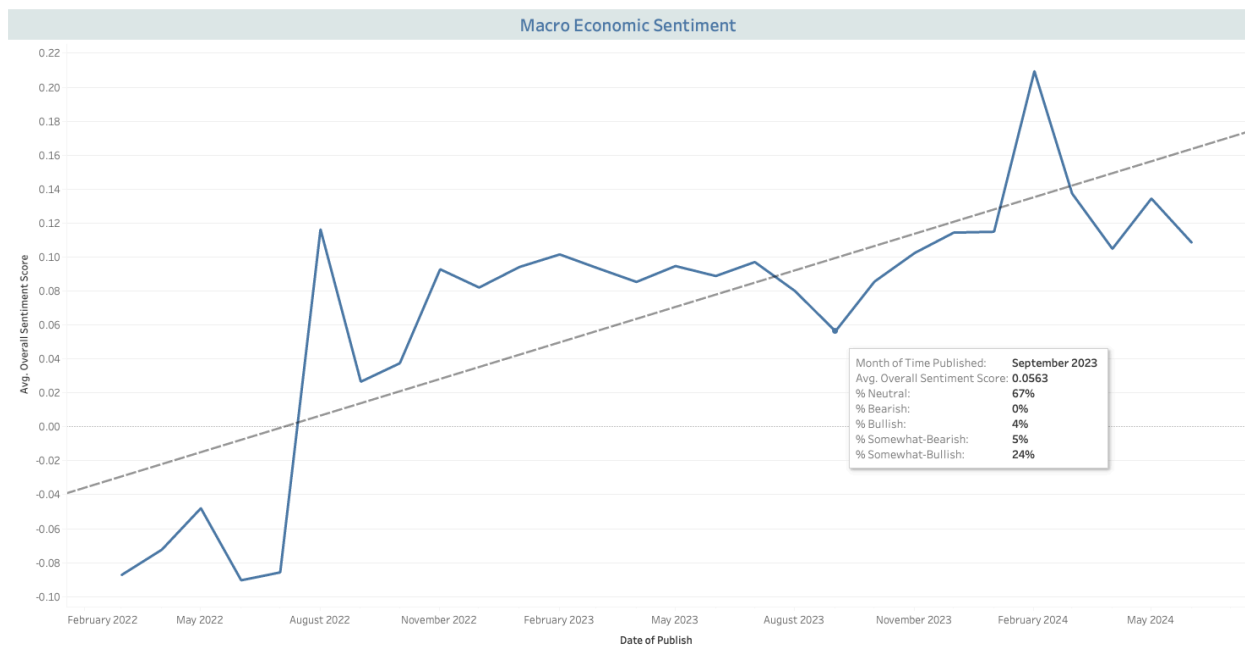
Sentiment

Data Wrangling

- Unioned the 17 CSV's created in the data extraction process
- Changed "Time Published" data type to Date & Time

Analysis

- Note that data was not available pre-pandemic. The earliest data that is available from this source is March 2022
- Note also that sentiment derived from published articles is only one way of gauging overall sentiment, and other means of data collection such as surveys should be considered
- On average, sentiment about the economy overall increased from February 2022 to May 2024, with the largest increase coming from July to August 2022
- In most months of the period analyzed, the majority of articles have a "neutral" sentiment



Part 2: Cryptocurrencies

Data Wrangling

- Code has been annotated in Python to describe data retrieval process

- Unioned data for the three coins (BTC, ETH and DOGE) in Excel before connecting to Tableau
- No changes were made to the data in Tableau
- Made a parameter “Choose Coin”, then made calculated fields for high and low values based on the coin chosen
- Tried to dynamically edit axis ranges based on parameter selection due to the three coins having such different values, but was unable to find a way to do this. Thus, note the axis values carefully when viewing each coin’s metrics

Analysis

- Note that data was not available pre-pandemic. The earliest data that is available from this source is August 2023
- Note also that this data only represents three coins and should not be taken as a wholistic view of the cryptocurrency market
- All three coins increased in value from August 2023 to June 2024, each with a spike at the end of February 2024

