First Data Analysis Project Write-Up

Our questions we set out to answer were:

* Which sectors have experienced the most significant increase in stock prices over the past ten years?
* Which sectors have been the most stable in terms of stock price fluctuations over the past ten years?
* Which sectors would be best for investors, given the historical data and our analysis?

We chose to use historical data from the S&P 500 to make our conclusions, this [link](https://www.ssga.com/us/en/intermediary/etfs/funds/spdr-sp-500-etf-trust-spy#holdings) takes you to a page where you can download all current tickers in the S&P. We couldn’t find a reliable way to get the historical data showing which stocks were in the S&P for each year, so that’s our first drawback of this analysis, this analysis covers the 10-year data of the stocks currently listed in the S&P.

We also used the YahooFinance python library to get the open, close, high, and low for every symbol for each year starting at the beginning 01-01-2013 and ending 12-31-2022, so we’ve got access to price changes year over year and the maximum in year price difference.