

Problem Set 5

Mason Ross Hayes

February 2020

1 Web Scraping without API

- I found patent data from IFI Claims
- I used this data because I am interested in examining the changes in patent data from individuals and corporations and how these changes may be correlated with economic growth or inequality
- I think this will be useful as an illustration of how US markets are becoming more concentrated
- I didn't use any tutorials but I did use our in-class example as a starting point

2 Web Scraping with API

- I found years of stock data for my portfolio of choice
- I used the riingo package in R, which calls the Tiingo API
- To manipulate all this data, I also used the following packages
 - tidyquant
 - PortfolioAnalytics
 - PerformanceAnalytics
 - ggthemes
 - quantmod
 - and more (in the R script)