Testing

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Data

Raw Data

```
#political shocks
raw_truths <- read.csv(here("data/political_data", "trump_all_truths.csv"))
raw_tweets <- read.csv(here("data/political_data", "tweets.csv"))

#market prices
raw_ONEQ <- read.csv(here("data/market_data", "ONEQ.csv"))
raw_SMI <- read.csv(here("data/market_data", "SMI.csv"))
raw_SPY <- read.csv(here("data/market_data", "SPY.csv"))
raw_VTHR <- read.csv(here("data/market_data", "VTHR.csv"))
raw_VTI <- read.csv(here("data/market_data", "VTI.csv"))
raw_VGK <- read.csv(here("data/market_data", "VGK.csv"))
raw_DAX <- read.csv(here("data/market_data", "DAX.csv"))
raw_ASHR <- read.csv(here("data/market_data", "ASHR.csv"))

raw_SPYy <- read.csv(here("data/market_data", "Spyqyahoo.csv")) #yahoo</pre>
```

Cleaning The Data

```
#political shocks
truths <- 1
tweets <- 1

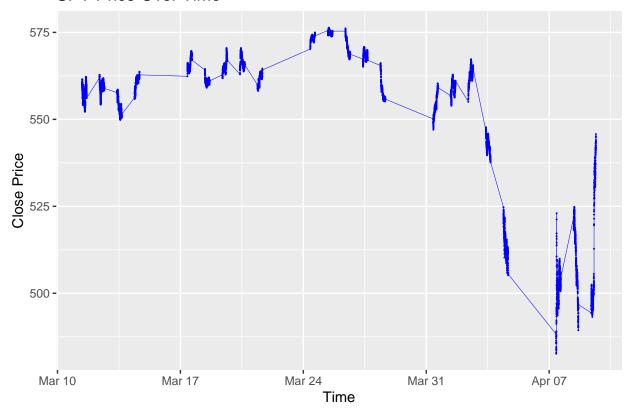
#market prices #only cleaning dates for the time being
raw_ONEQ$timestamp = as.POSIXct(raw_ONEQ$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "EST")
raw_SMI$timestamp = as.POSIXct(raw_SMI$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "EST")
raw_SPY$timestamp = as.POSIXct(raw_SPY$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "EST")
raw_VTHR$timestamp = as.POSIXct(raw_VTHR$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "EST")
raw_VTI$timestamp = as.POSIXct(raw_VTI$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "EST")
raw_VGK$timestamp = as.POSIXct(raw_VGK$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "UCT")
raw_DAX$timestamp = as.POSIXct(raw_DAX$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "UCT")
raw_ASHR$timestamp = as.POSIXct(raw_ASHR$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "UCT") #fix time.</pre>
```

Daily Data

Plots

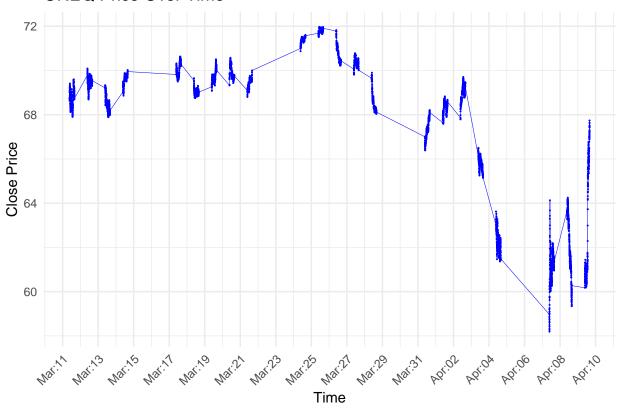
Total

SPY Price Over Time

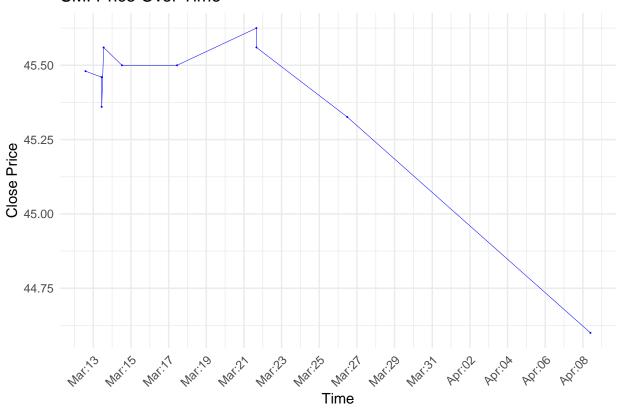


```
#ONEQ
ggplot(raw_ONEQ, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1), color="blue", linewidth=0.05) +
  labs(title = "ONEQ Price Over Time",
```

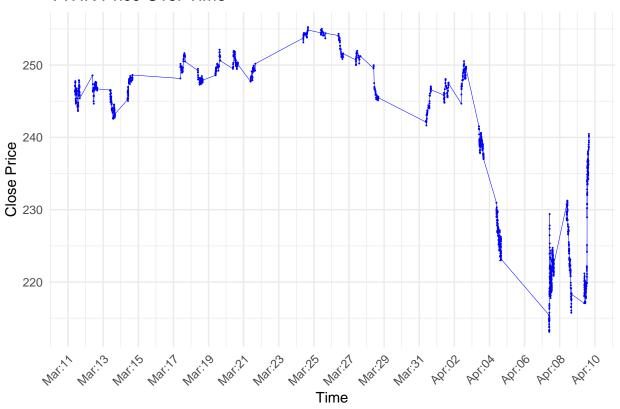
ONEQ Price Over Time



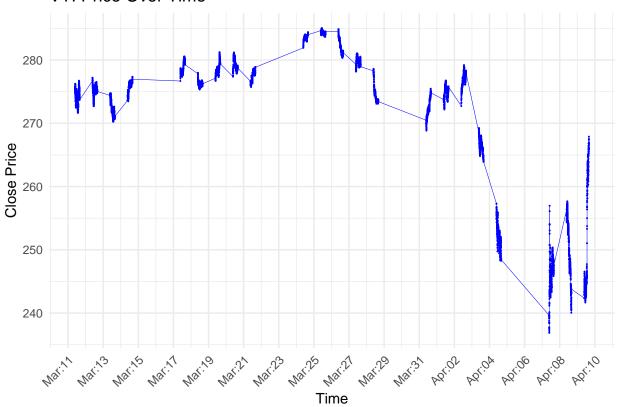
SMI Price Over Time



VTHR Price Over Time



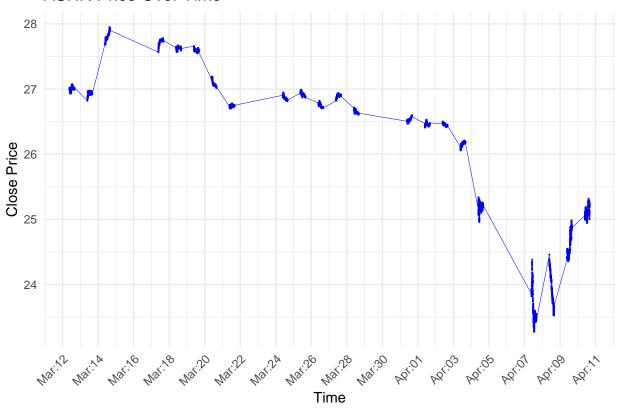






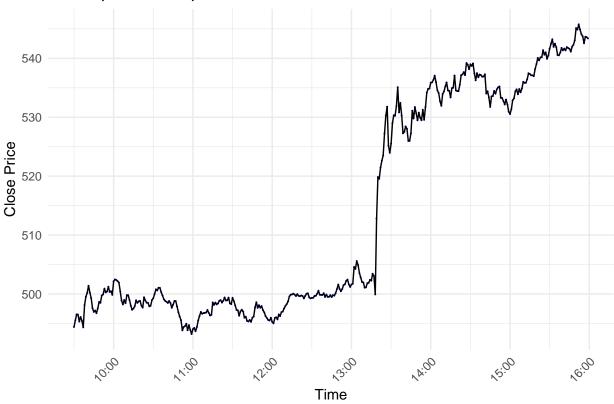


ASHR Price Over Time



Per Day

SPY alpha Price April 9th



6.275 6.250 6.200 Fine SPY Log Price April 9th 6.275 6.200 Time

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('geom_point()').

