Testing

Contents

Data

Raw Data

```r
#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_SPYy <- read.csv(here("data/market_data", "Spyqyahoo.csv")) #yahoo
```

Cleaning The Data

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


#market prices #only cleaning dates for the time being
ONEQ <- 1
SMI <- 1
raw_SPY$timestamp = as.POSIXct(raw_SPY$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "EST")
VTHR <- 1
VTI <- 1
```

Daily Data

```r
#political shocks


#market prices
day_SPY_0409 = filter(raw_SPY, str_detect(timestamp, "^2025-04-09")) #9th of april
day_SPY_0409$timestamp = as.POSIXct(day_SPY_0409$timestamp,
                                    format = "%Y-%m-%d %H:%M:%S", tz = "EST")

yahoo_ds0409 = filter(raw_SPYy, str_detect(Date, "^2025-04-09"))
yahoo_ds0409$Date = as.POSIXct(yahoo_ds0409$Date,
                               format = "%Y-%m-%dT%H:%M:%S", tz = "UTC")
yahoo_ds0409$Date = with_tz(yahoo_ds0409$Date, "EST")
```
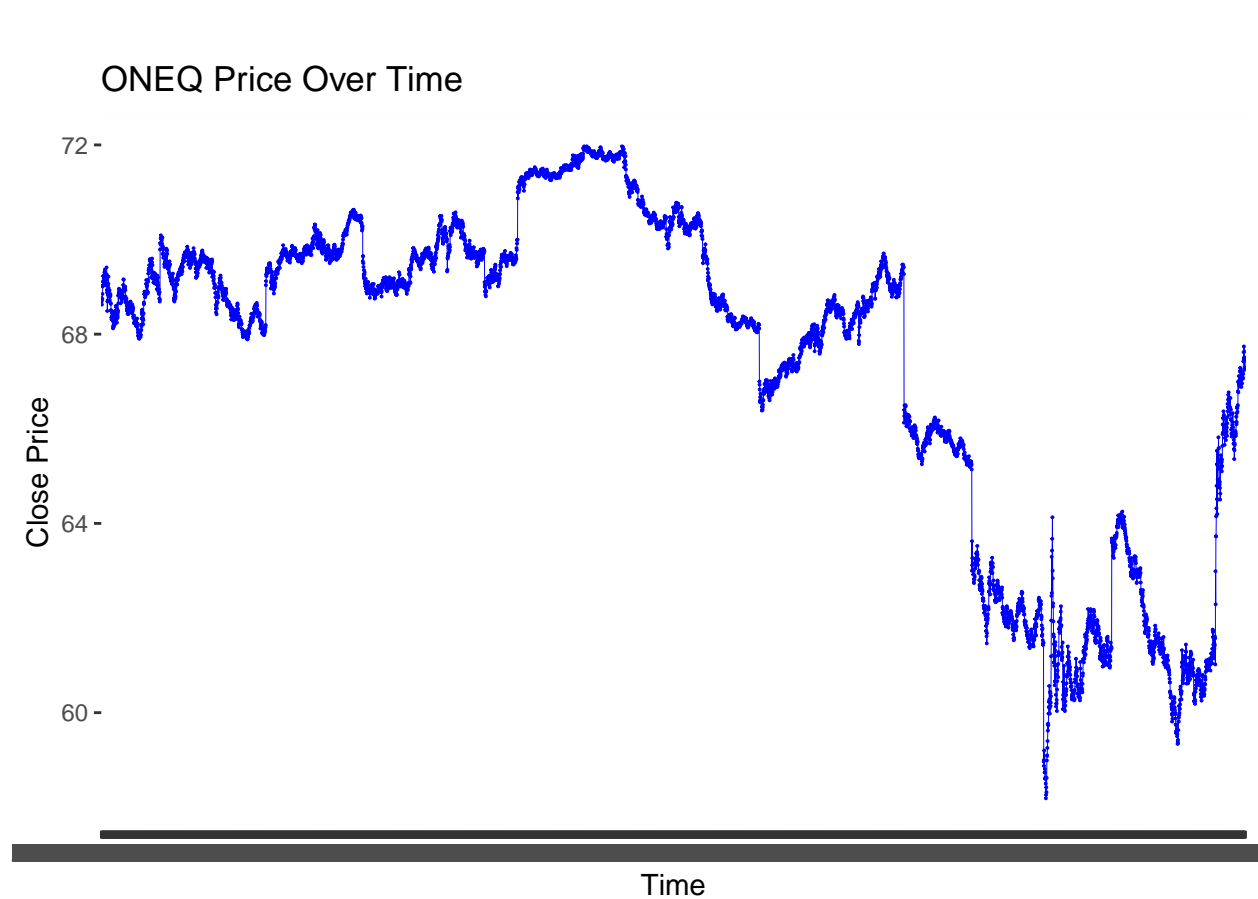
Plots

Total

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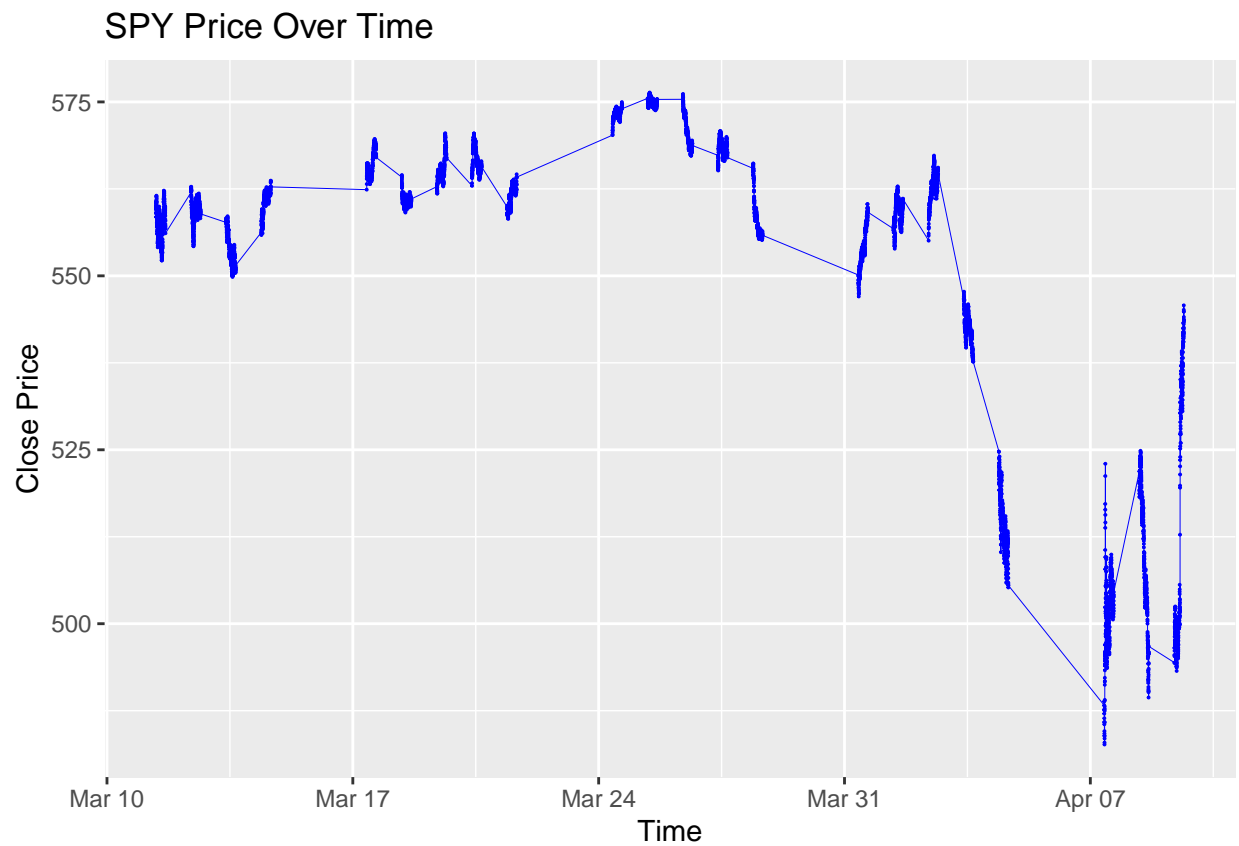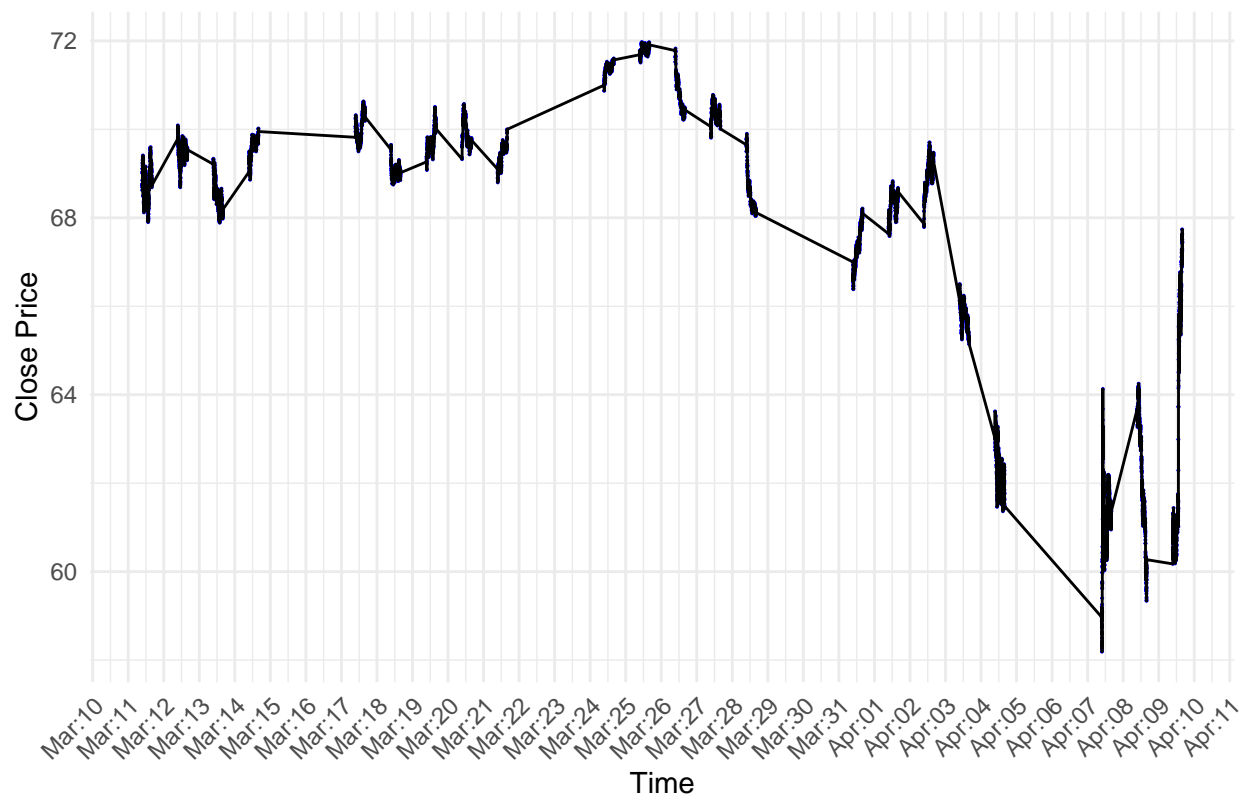

SPY Price Over Time

```
#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",
       x = "Time",
       y = "Close Price")
```
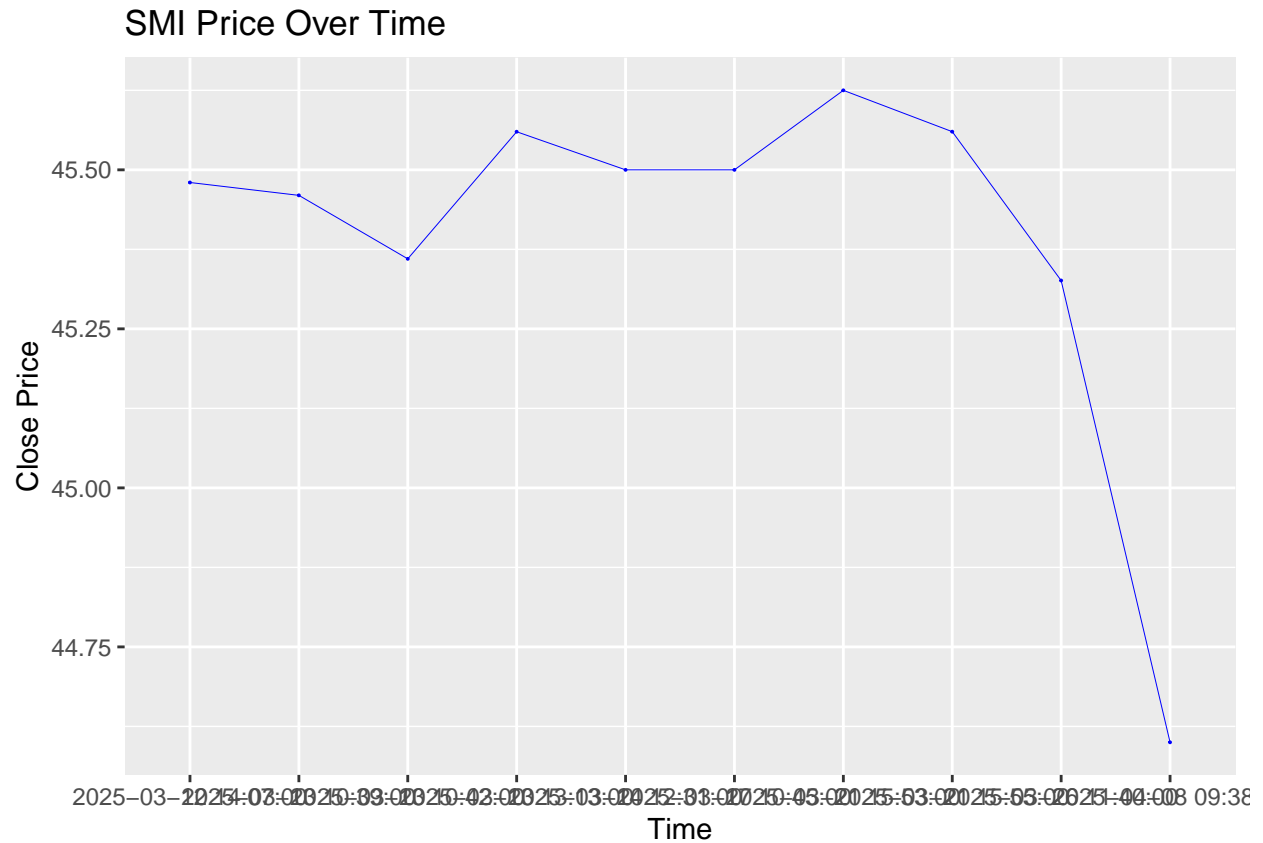
ONEQ Price Over Time


```
ONEQ_times = as.POSIXct(raw_ONEQ$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "UTC")
#ONEQ correct dates?
ggplot(raw_ONEQ, aes(x = ONEQ_times, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1)) +
  labs(title = "ONEQ Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                   date_breaks = "1 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```
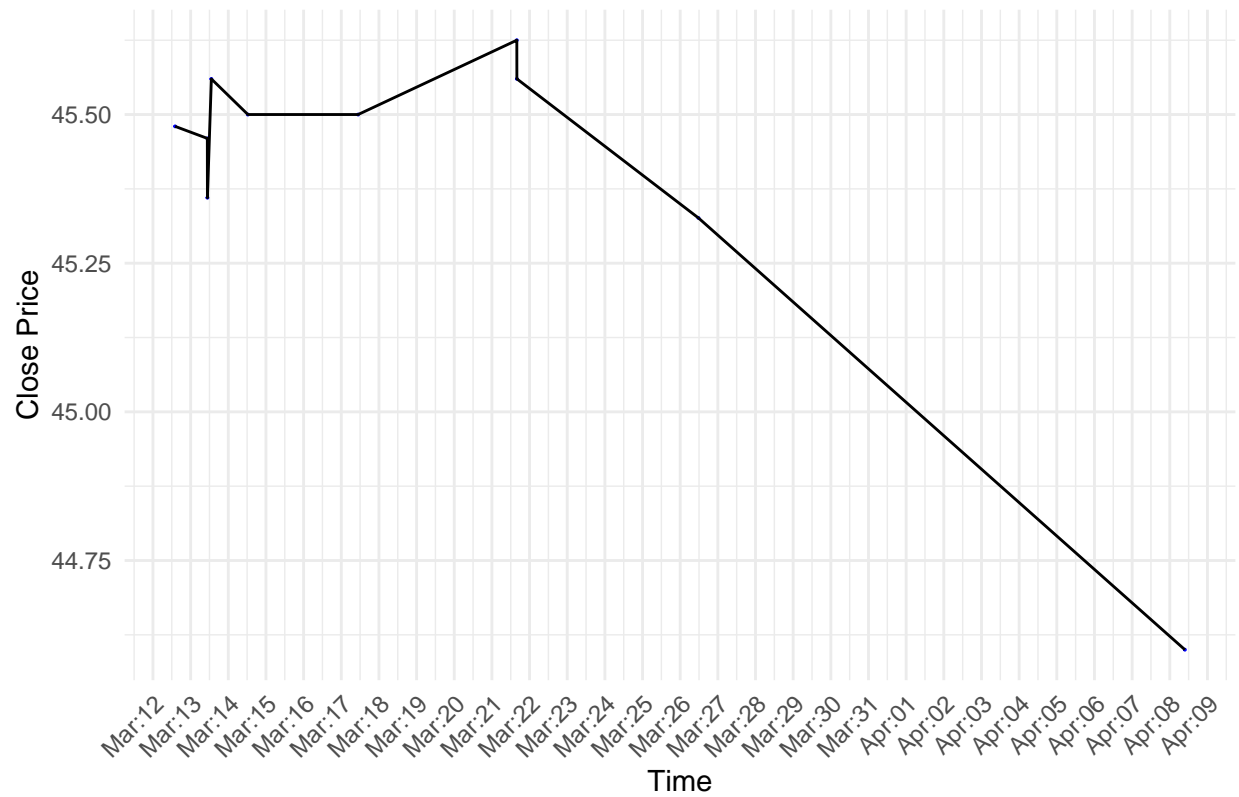
ONEQ Price Over Time


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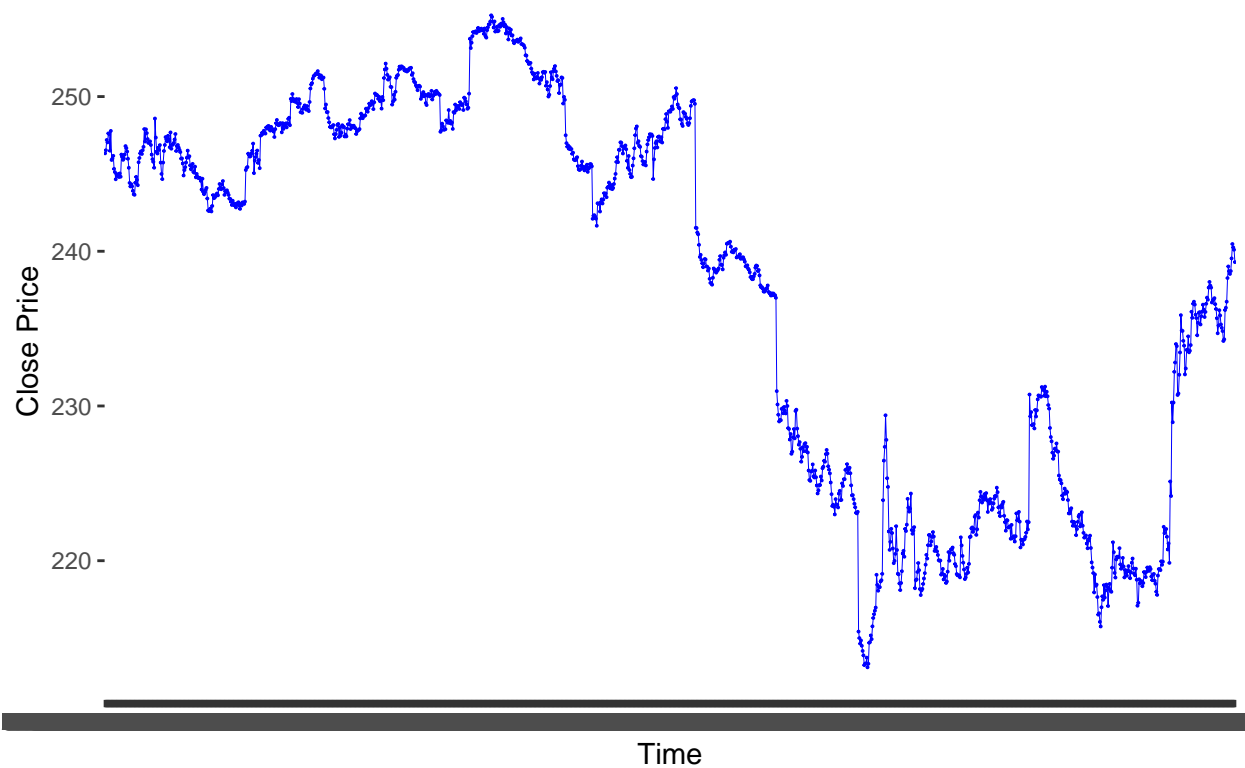
SMI Price Over Time


```r
SMI_times = as.POSIXct(raw_SMI$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "UTC")
#SMI correct dates?
ggplot(raw_SMI, aes(x = SMI_times, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1)) +
  labs(title = "SMI Price Over Time",
      x = "Time",
      y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                  date_breaks = "1 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```
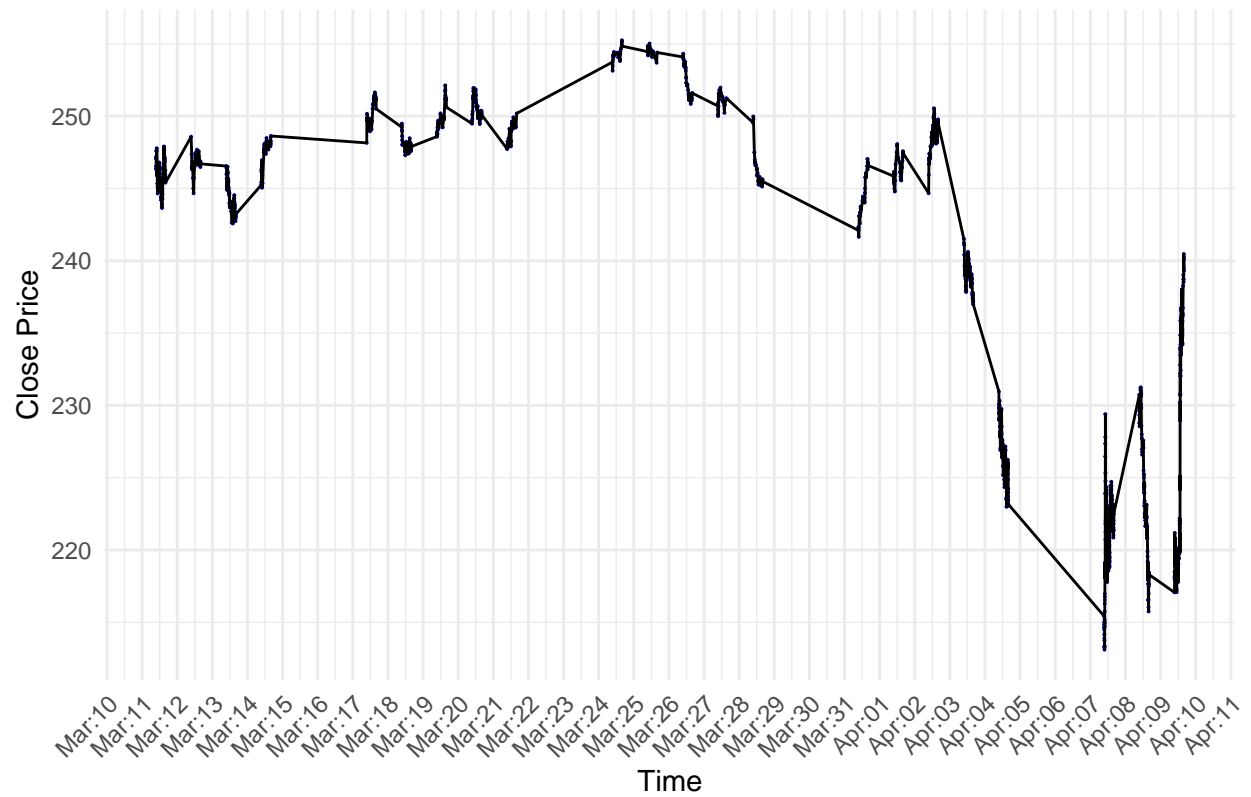
SMI Price Over Time


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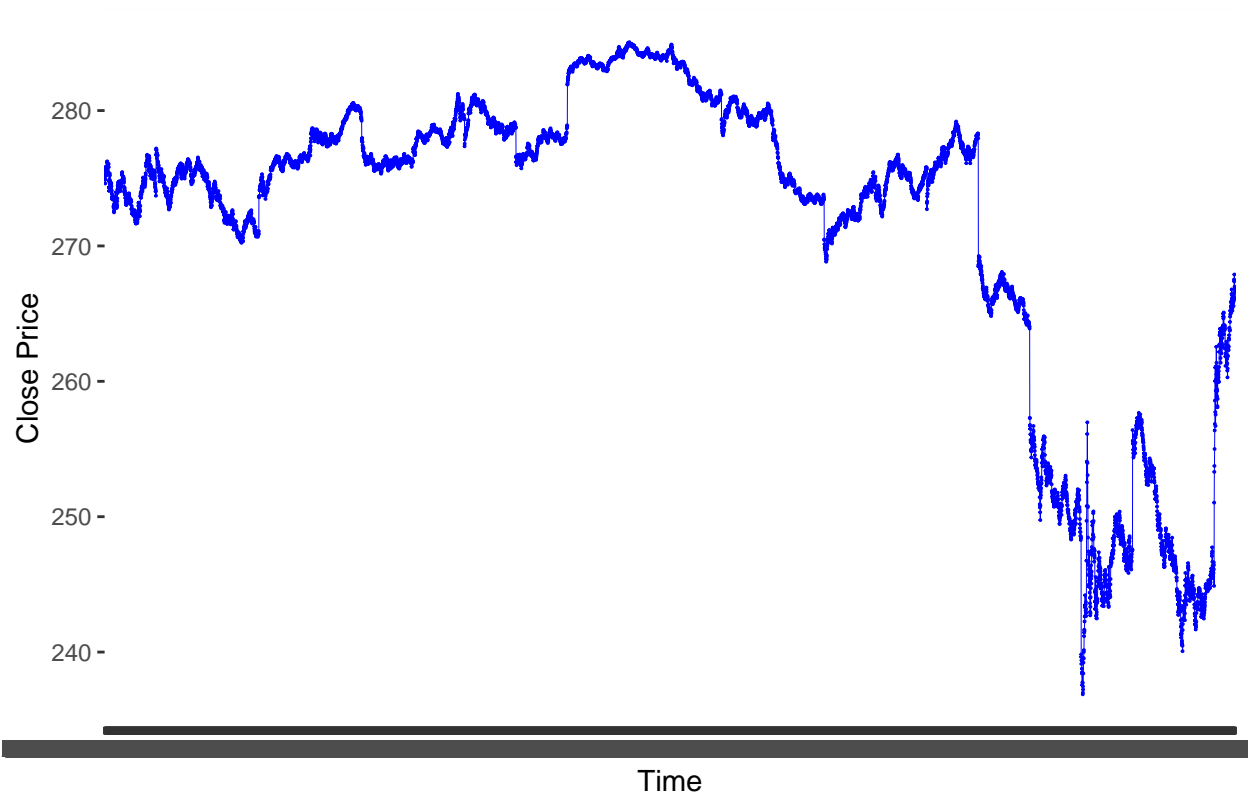
VTHR Price Over Time


```
VTHR_times = as.POSIXct(raw_VTHR$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "UTC")
#VTHR correct dates?
ggplot(raw_VTHR, aes(x = VTHR_times, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1)) +
  labs(title = "VTHR Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                   date_breaks = "1 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

VTHR Price Over Time


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

VTI Price Over Time


```r
VTI_times = as.POSIXct(raw_VTI$timestamp, format = "%Y-%m-%d %H:%M:%S", tz = "UTC")
#VTI correct dates?
ggplot(raw_VTI, aes(x = VTI_times, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1)) +
  labs(title = "VTI Price Over Time",
       x = "Time",
       y = "Close Price") +
   scale_x_datetime(date_labels = "%b:%d",
                    date_breaks = "1 day") +
   theme_minimal() +
   theme(axis.text.x = element_text(angle = 45, hjust = 1))
```
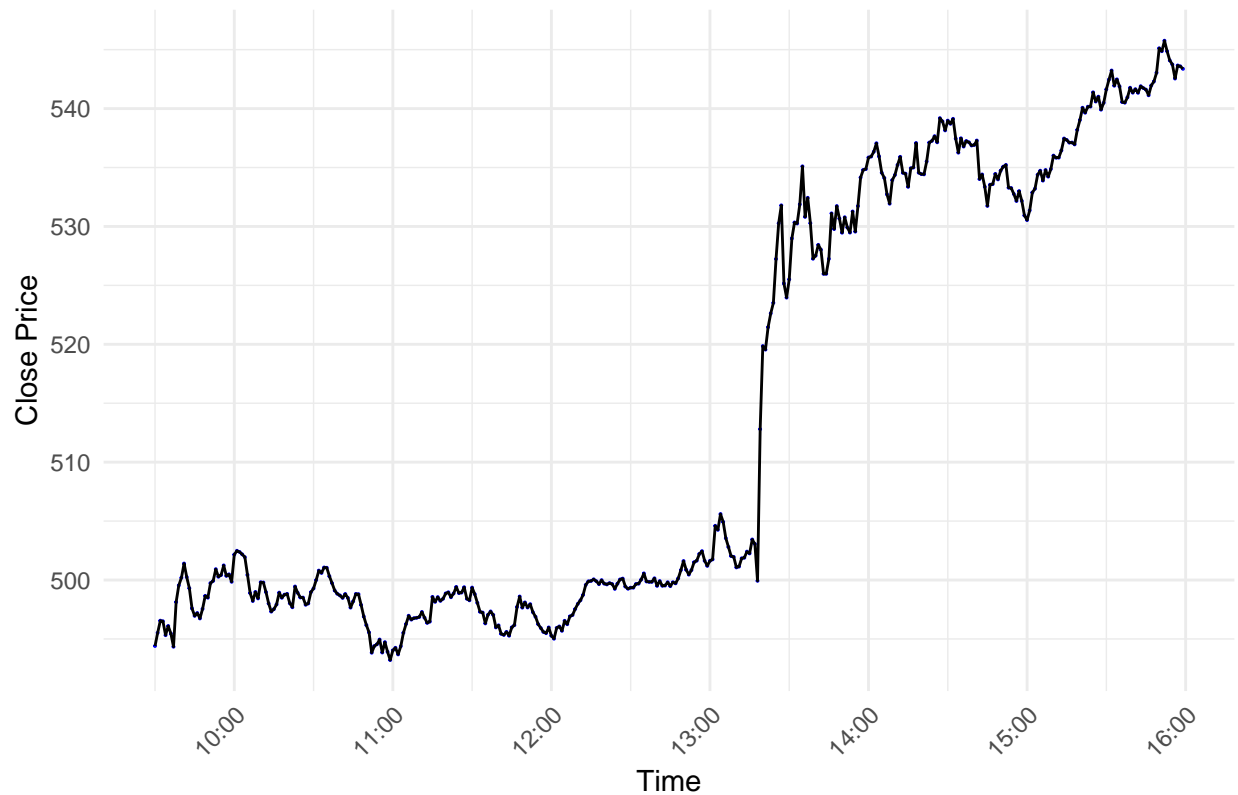
VTI Price Over Time
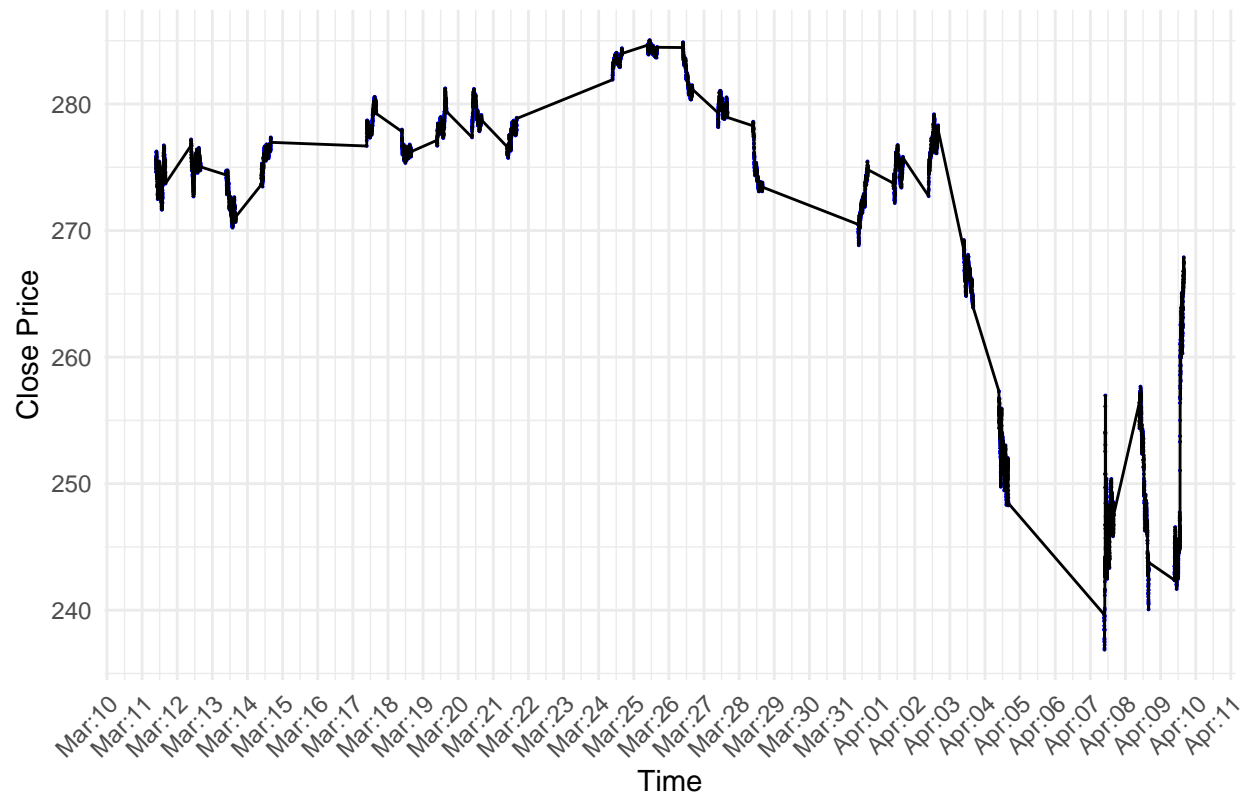
Per Day

```
#SPY Source: alpha
ggplot(day_SPY_0409, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1)) +
  labs(title = "SPY alpha Price April 9th",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%H:%M",
                   date_breaks = "60 min") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

SPY alpha Price April 9th


```r
#SPY Source: yahoo
ggplot(yahoo_ds0409, aes(x = Date, y = Close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1)) +
  labs(title = "SPY yahoo Price April 9th",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%H:%M",
                   date_breaks = "60 min") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

```
## Warning: Removed 3 rows containing missing values or values outside the scale range
## (`geom_point()`).
```

SPY yahoo Price April 9th