

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
```

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
```

Daily Data

```
#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")

```

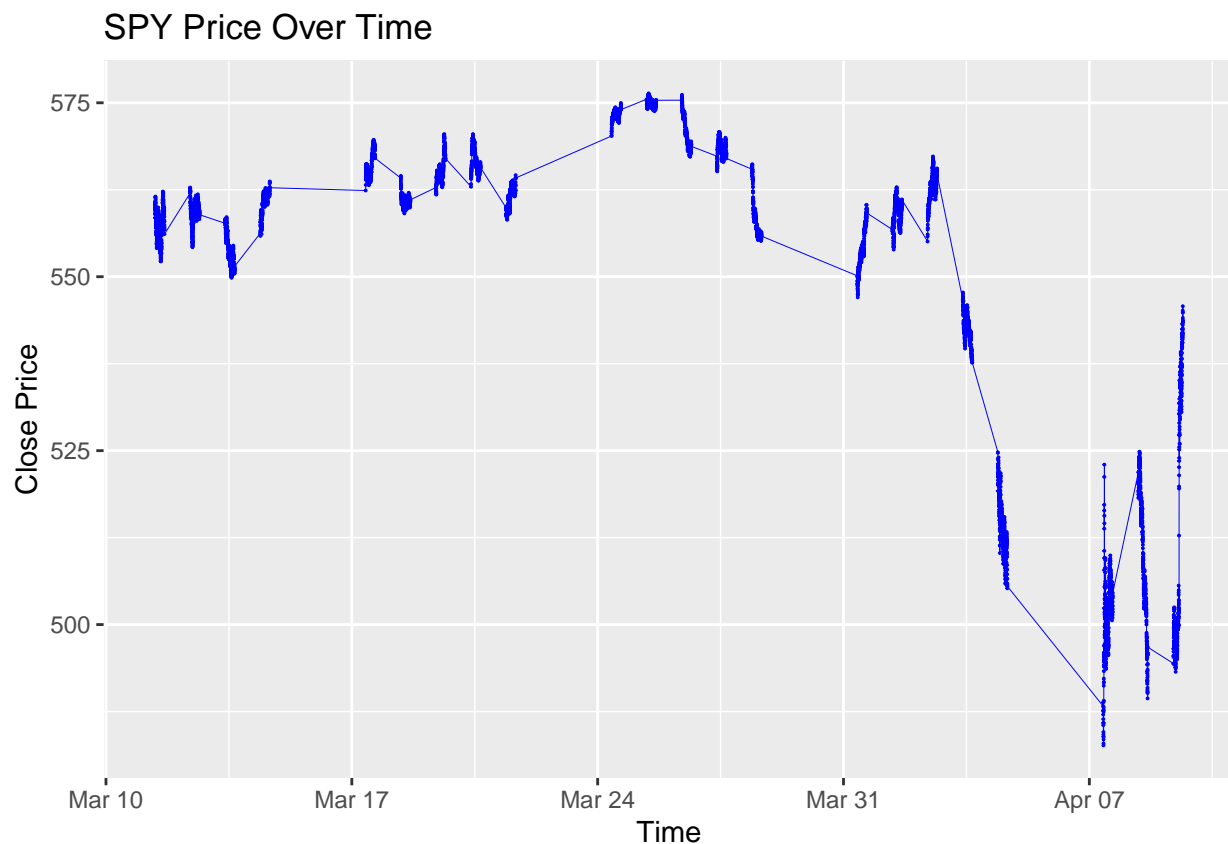
Plots

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")

```



```

#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") +
scale_x_datetime(date_labels = "%b:%d",
                 date_breaks = "2 day") +
theme_minimal() +
theme(axis.text.x = element_text(angle = 45, hjust = 1))

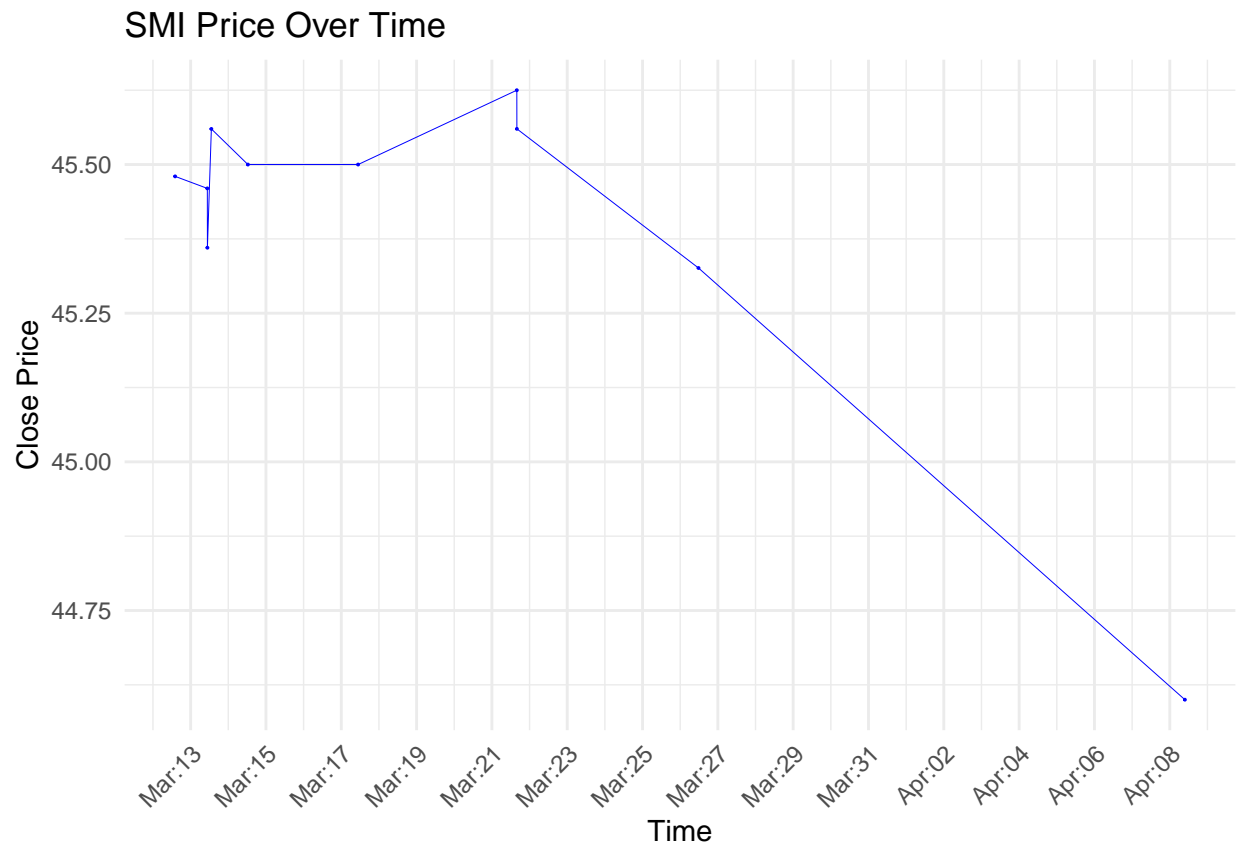
```



```

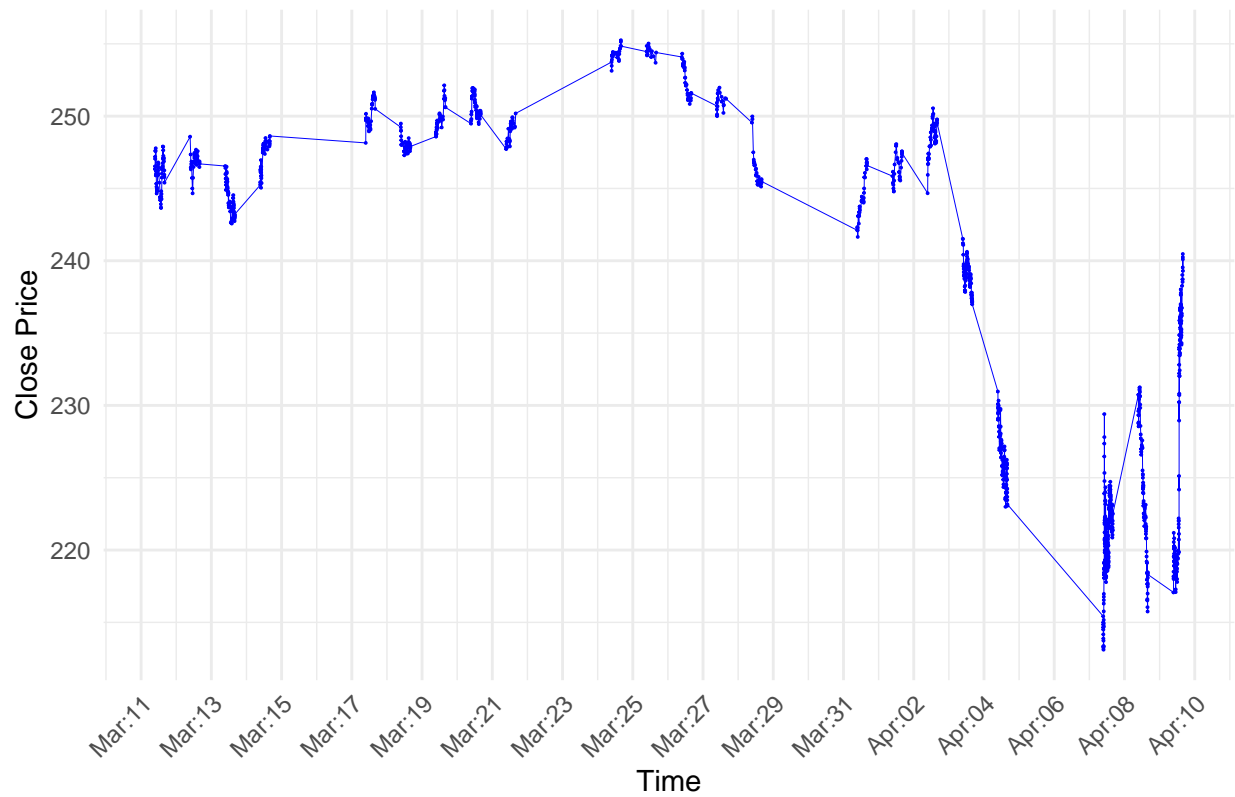
#SMI
ggplot(raw_SMI, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1), color="blue", linewidth=0.05) +
  labs(title = "SMI Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                 date_breaks = "2 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))

```



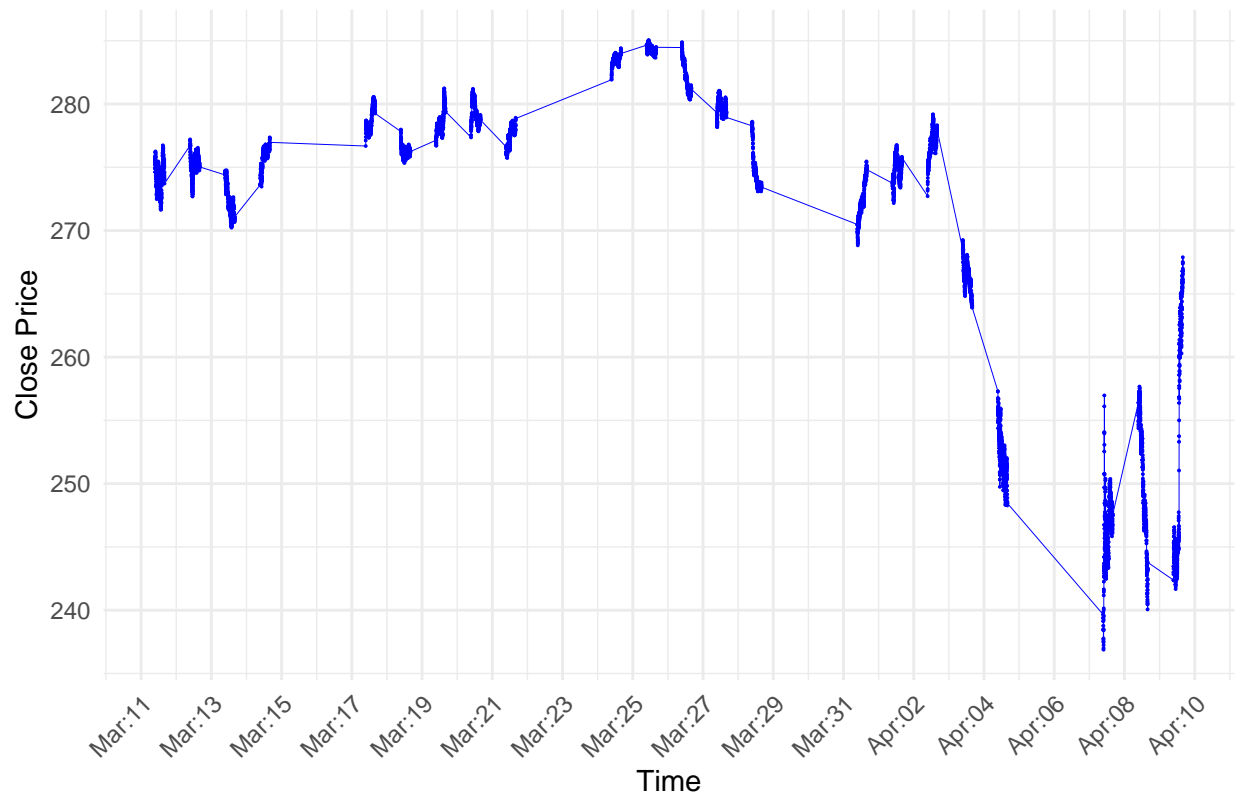
```
#VTHR
ggplot(raw_VTHR, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1), color="blue", linewidth=0.05) +
  labs(title = "VTHR Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                   date_breaks = "2 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

VTHR Price Over Time



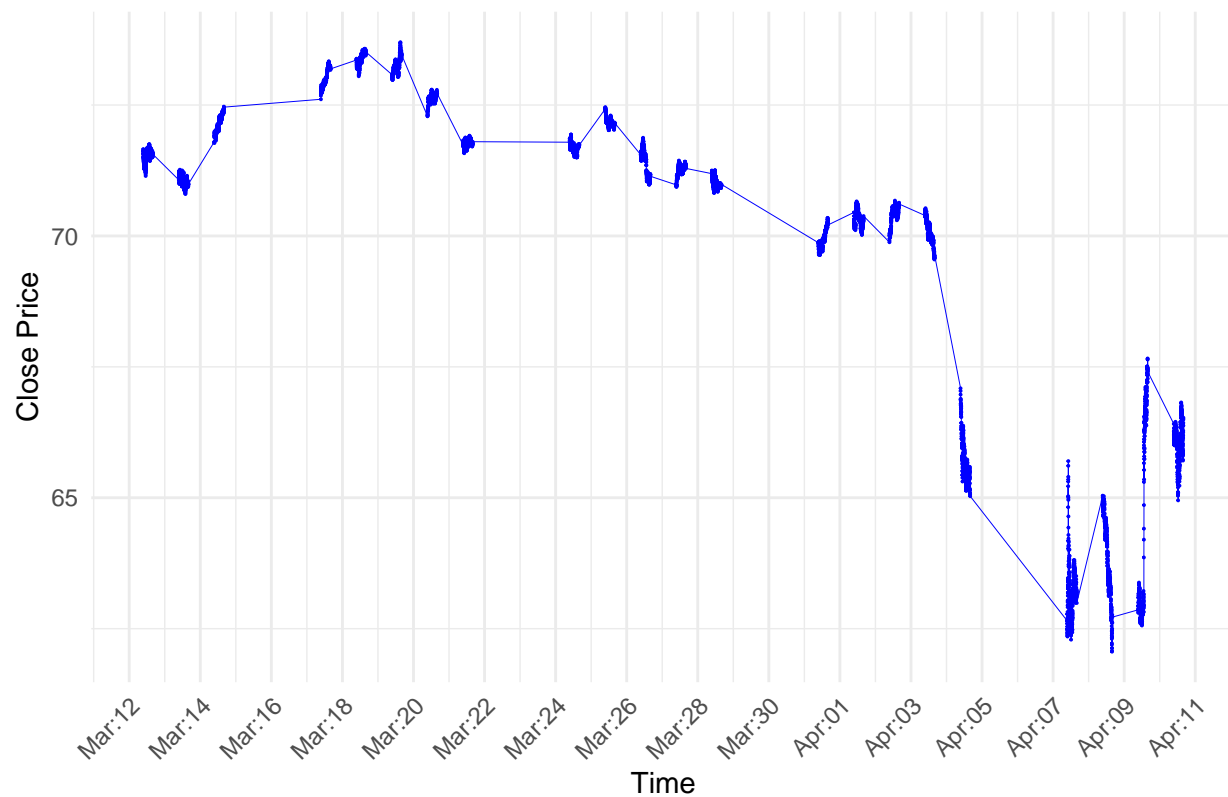
```
#VTI
ggplot(raw_VTI, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1), color="blue", linewidth=0.05) +
  labs(title = "VTI Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                   date_breaks = "2 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

VTI Price Over Time



```
#VGK
ggplot(raw_VGK, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1), color="blue", linewidth=0.05) +
  labs(title = "VGK Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                  date_breaks = "2 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

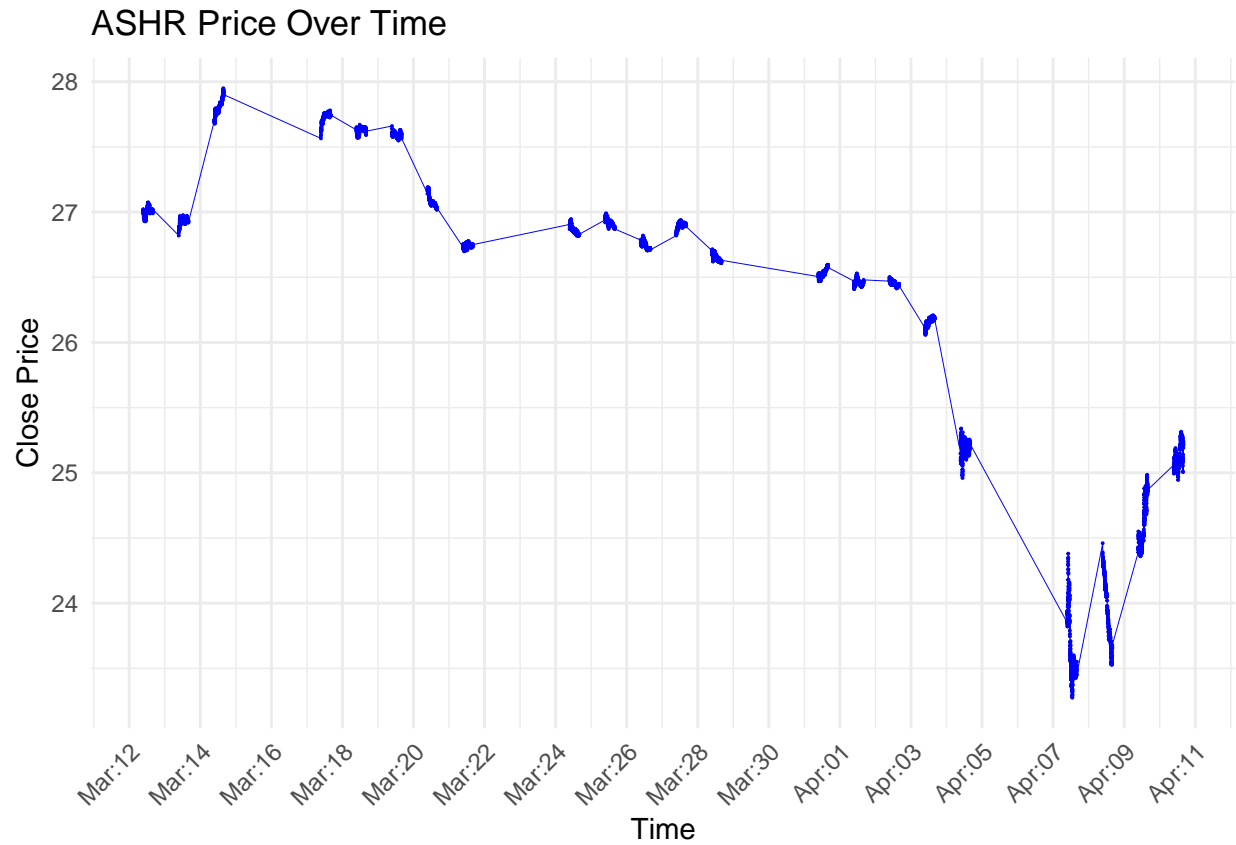
VGK Price Over Time



```
#DAX
ggplot(raw_DAX, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1), color="blue", linewidth=0.05) +
  labs(title = "DAX Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                   date_breaks = "2 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



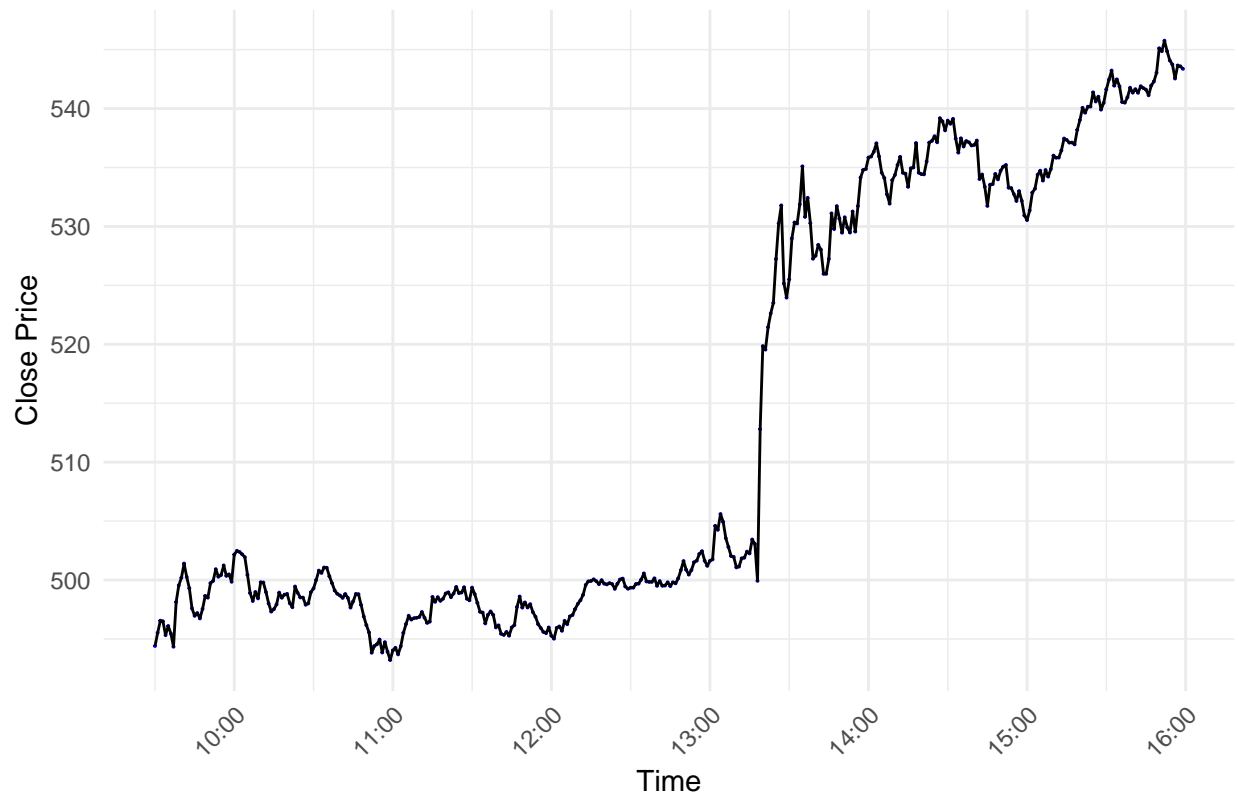

```
#ASHR
ggplot(raw_ASHR, aes(x = timestamp, y = close)) +
  geom_point(color = "blue", size = 0.01) +
  geom_line(aes(group=1), color="blue", linewidth=0.05) +
  labs(title = "ASHR Price Over Time",
       x = "Time",
       y = "Close Price") +
  scale_x_datetime(date_labels = "%b:%d",
                   date_breaks = "2 day") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



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



```
#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

