

STAT 451 - Visualizing Data - Autumn 2025

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Lab 3: Ggplot2 - Exercise 3

In this lab, we are going to visualize the monthly fluctuation in stock prices. make a scatter plot of closing value versus month and add mean and quantiles for each month to see the fluctuations.

Libraries

Load the necessary libraries.

```
library(tidyverse)
```

Data

Use the data from the Facebook dataset.

```
df_fb <- read_csv("../data/FB.csv")
df_fb$Date <- as.Date(df_fb$Date)
df_fb$Month <- strftime(df_fb$Date, "%m")
df_fb$Month <- as.numeric(df_fb$Month)
df_fb <- df_fb %>% filter ((Date >= "2017-05-01") & (Date < "2018-05-01"))
```

Plot

Complete the cell with the code to make the plot.