

# Lab 9 - Plot the Monthly Closing Stock Prices and the Mean Values

Ariane Ducellier

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In this lab, we are going to visualize the monthly fluctuation in stock prices.

## Libraries

Load the necessary libraries.

```
library(ggplot2)
```

## Data

Use the data from the RestaurantTips 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)
```

## Plot

Complete the cell with the code to make the plot.

```
ggplot(df_fb, aes(Month, Close)) +
  geom_point(color="red", alpha=1/2, position = position_jitter(h=0.0, w=0.0)) +
  stat_summary(geom = "line", fun = "mean", color = "orange", size = 1) +
  stat_summary(geom = "line", fun = "quantile", fun.args = list(probs=.9), linetype = 2, color = "red") +
  scale_x_continuous(breaks=seq(0, 13, 1)) +
  ggtitle("Monthly Closing Stock Prices: Facebook") +
  theme_classic()
```

```
## Warning: Using 'size' aesthetic for lines was deprecated in ggplot2 3.4.0.
```

```
## Warning: Please use 'linewidth' instead.
```

