# Uber:

install.packages("ggplot2")

install.packages("ggthemes")

install.packages("lubridate")

install.packages("dplyr")

install.packages("tidyr")

install.packages("DT")

install.packages("scales")

library(ggplot2)

library(ggthemes)

library(lubridate)

library(dplyr)

library(tidyr)

library(DT)

library(scales)

colors = c("#CC1011", "#665555", "#05a399", "#cfcaca", "#f5e840", "#0683c9", "#e075b0")

getwd()

setwd("C:/Users/DELL/Desktop/Assignment")

apr\_data <- read.csv("uber-raw-data-apr14.csv")

may\_data <- read.csv("uber-raw-data-may14.csv")

jun\_data <- read.csv("uber-raw-data-jun14.csv")

jul\_data <- read.csv("uber-raw-data-jul14.csv")

aug\_data <- read.csv("uber-raw-data-aug14.csv")

sep\_data <- read.csv("uber-raw-data-sep14.csv")

data\_2014 <- rbind(apr\_data,may\_data, jun\_data, jul\_data, aug\_data, sep\_data)

data\_2014$Date.Time <- as.POSIXct(data\_2014$Date.Time, format = "%m/%d/%Y %H:%M:%S")

data\_2014$Time <- format(as.POSIXct(data\_2014$Date.Time, format = "%m/%d/%Y %H:%M:%S"), format="%H:%M:%S")

data\_2014$Date.Time <- ymd\_hms(data\_2014$Date.Time)

data\_2014$day <- factor(day(data\_2014$Date.Time))

data\_2014$month <- factor(month(data\_2014$Date.Time, label = TRUE))

data\_2014$year <- factor(year(data\_2014$Date.Time))

data\_2014$dayofweek <- factor(wday(data\_2014$Date.Time, label = TRUE))

data\_2014$hour <- factor(hour(hms(data\_2014$Time)))

data\_2014$minute <- factor(minute(hms(data\_2014$Time)))

data\_2014$second <- factor(second(hms(data\_2014$Time)))

hour\_data <- data\_2014 %>%

group\_by(hour) %>%

dplyr::summarize(Total = n())

datatable(hour\_data)

Graphical user interface, text, application, email

Description automatically generated

ggplot(hour\_data, aes(hour, Total)) +

geom\_bar( stat = "identity", fill = "steelblue", color = "red") +

ggtitle("Trips Every Hour") +

theme(legend.position = "none") +

scale\_y\_continuous(labels = comma)

Chart, bar chart, histogram

Description automatically generated

month\_hour <- data\_2014 %>%

group\_by(month, hour) %>%

dplyr::summarize(Total = n())

ggplot(month\_hour, aes(hour, Total, fill = month)) +

geom\_bar( stat = "identity") +

ggtitle("Trips by Hour and Month") +

scale\_y\_continuous(labels = comma)

Chart, histogram

Description automatically generated

day\_group <- data\_2014 %>%

group\_by(day) %>%

dplyr::summarize(Total = n())

datatable(day\_group)

Graphical user interface, text, application, email

Description automatically generated

ggplot(day\_group, aes(day, Total)) +

geom\_bar( stat = "identity", fill = "steelblue") +

ggtitle("Trips Every Day") +

theme(legend.position = "none") +

scale\_y\_continuous(labels = comma)

# Chart, histogram Description automatically generated