```
library(ggplot2)
library(plotly)
library(ggcorrplot)
library(dplyr)
df1 <- read.csv("C:/Master/Semester 4/expedia-hotel-recommendations/train.csv",
nrows=10000)
# Compute correlation Matrix
df1 %>% select_if(is.numeric)-> nums
corr <- round(cor(nums), 1)</pre>
head(corr[, 1:6])
ggcorrplot(corr)
#Histogram to show distribution of hotel clusters
ggplot(data = df1) +
 geom_bar(mapping = aes(x = hotel_cluster))
# Scatterplot srch rm cnt & orig destination distance
ggplot(data = df1, mapping = aes(x = orig_destination_distance, y = srch_rm_cnt)) +
 geom_point()
# Boxplot origination_destination_distance by hotel_cluster
ggplot(data = df1, mapping = aes(x = hotel_cluster, y = orig_destination_distance, group =
hotel_cluster)) +
 geom_boxplot()
# check relation between is_package, is_mobile and hotel_cluster.
ggplot(df1, aes(x = hotel cluster, y = is mobile)) +
 geom bar(aes(fill=factor(hotel cluster)), stat = 'identity') +
 facet_grid(is_package~., labeller = label_both)
```







