library(datasets)

data("iris")

View(iris)

unique(iris$Species)

VISUALIZATION IN R AND RSTUDIO

GGPLOT LIBRARY OR PACKAGE

library(datasets)

#Load data

data("mtcars")

#View first 5 rows

head(mtcars,5)

?mtcars

# load the ggplot package and create a scatterplot of disp and mpg.

library(ggplot2)

ggplot(aes(x=disp,y=mpg),data = mtcars) + geom\_point()

# adding a title and change the name of x and y axis.

ggplot(aes(x=disp,y=mpg),data = mtcars) + geom\_point() + ggtitle("displacement vs miles per gallon") + labs(x = "Displacement",y = "Miles per gallon")

# create a boxplot of the distribution of mpg for the indivual engine

# types - vs - Engine(0 = V-shaped, 1 = straight).

# to do this we have to make vs a string or factor.

# make vs a factor

mtcars$vs <- as.list.factor(mtcars$vs)

# create boxplot for the distribution for v and straight engines.

ggplot(aes(x=vs,y=mpg),data = mtcars) + geom\_boxplot()

# add colours to the boxplot to help differentiate.

mtcars$vs <- as.list.factor(mtcars$vs)

ggplot(aes(x=vs, y=mpg, fill=vs), data = mtcars) +

geom\_boxplot(alpha = 0.03) +

theme(legend.position = "none")