#Jash Mehta

#Homework Info Viz

#Installing package ggplot2

install.packages("ggplot2")

library(ggplot2)

require(ggplot2)

#Loading mtcars data into mtc

mtc <- mtcars

mtc

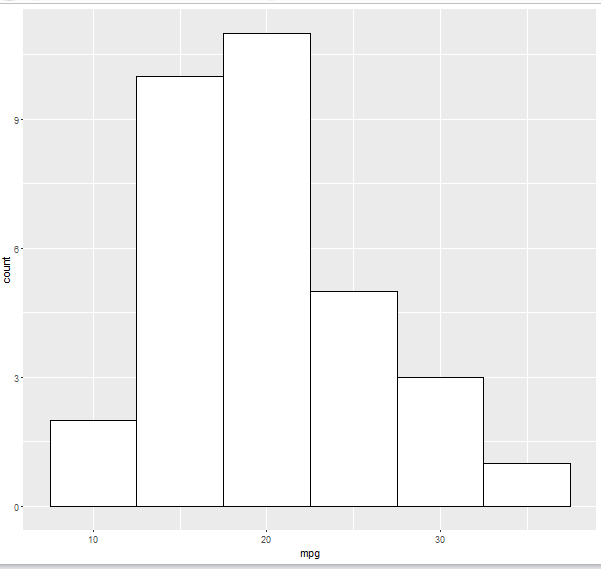
str(mtc)

#Step 3 A

#Histogram for mpg

a<-ggplot(mtc, aes(x=mpg)) + geom\_histogram(binwidth=5,color="black", fill="white")

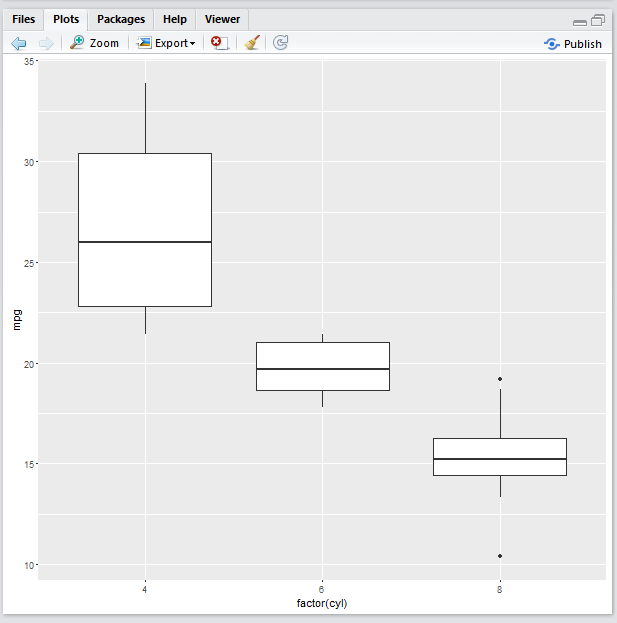
a



#Boxplot of mpg by cyl

b<-ggplot(mtc,aes(factor(cyl),mpg)) +geom\_boxplot()

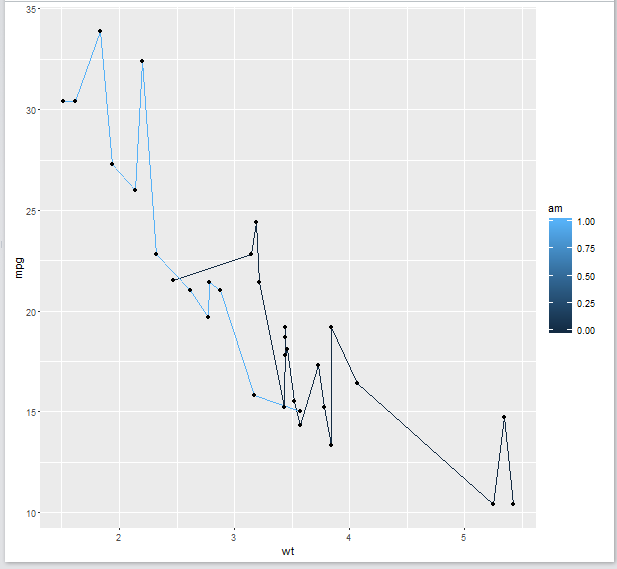
b



#MultiLine chart

c=ggplot(mtc, aes(x=wt, y=mpg, group=am)) +geom\_line (aes(color=am))+geom\_point()

c



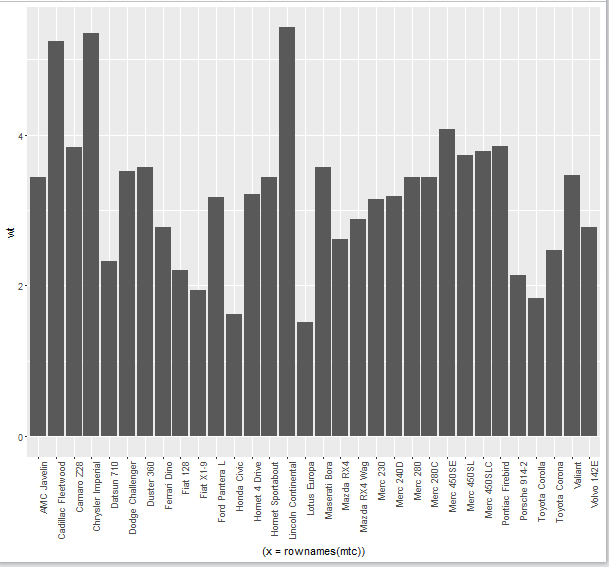
#Bar chart

d<-ggplot(mtc,aes((x=rownames(mtc)), y=wt,group=1))

d<-d+geom\_bar(stat="identity")

d<-d+theme(axis.text.x=element\_text(angle=90,hjust=1))

d

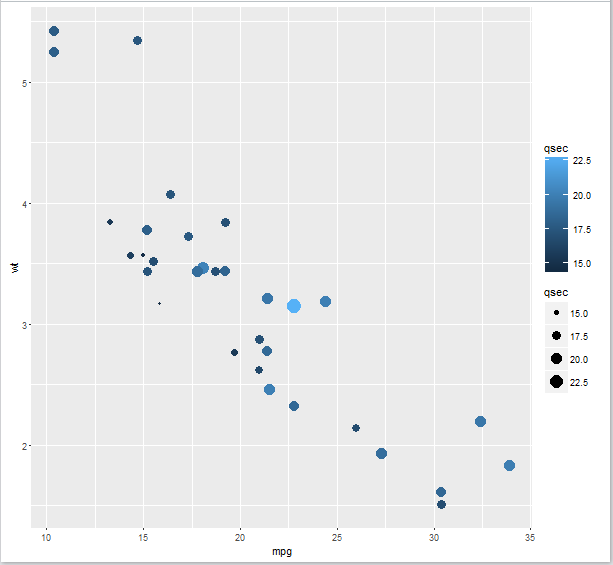


#Scatter plot

e<-ggplot(mtc,aes(x=mpg,y=wt))

e<-e+geom\_point(aes(size=qsec,color=qsec))

e



#Creating the heatmap

heat<-ggplot(mtc, aes(y=cyl,x=wt))

heat1<-heat+geom\_tile(aes(fill=mpg))+scale\_fill\_gradient(low="white",high="orange")+xlab("")+ylab("days")

heat1

