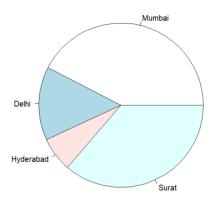
Practical 2: Basic Data Visualization using R

Pie chart
x <- c(62,21,10,53)
labels <- c("Mumbai","Delhi","Hyderabad","Surat")
pie(x,labels)</pre>



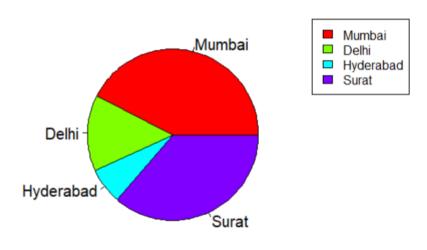
Pie chart with color
pie(x,labels,main="City Pie Chart",col=rainbow(length(x)))

City Pie Chart



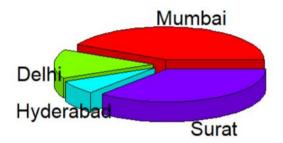
pie chart with labels
pie(x,labels,main="City Pie Chart",col=rainbow(length(x)))
legend("topright",c(labels), cex=0.8,fill=rainbow(length(x)))

City Pie Chart

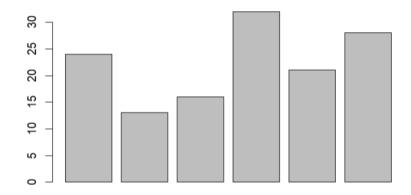


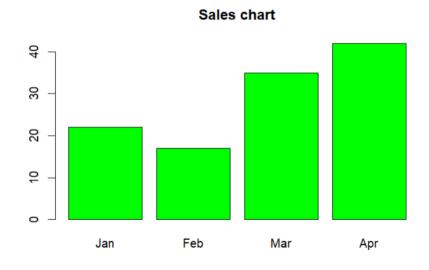
3d Pie chart
install.packages("plotrix")
library("plotrix")
pie3D(x,labels=labels,explode =0.1,main="Pie chart of Capitals")

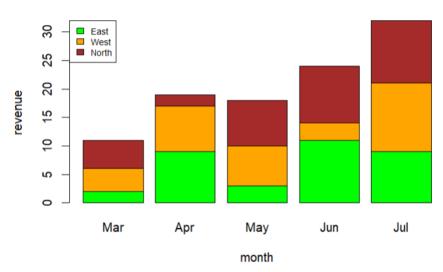
Pie chart of Capitals



Bar chart h<-c(24,13,16,32,21,28) barplot(h)

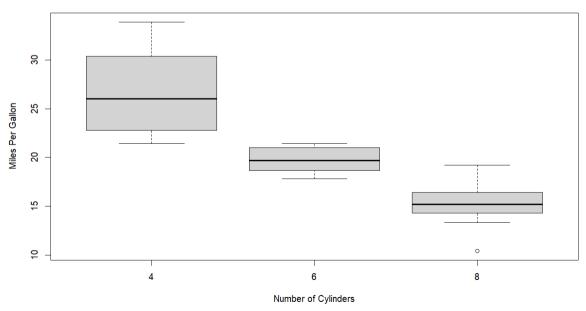




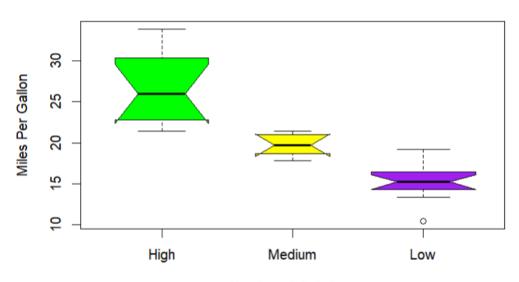


Box Plot
input <- mtcars[,c('mpg','cyl')]
print(head(input))</pre>



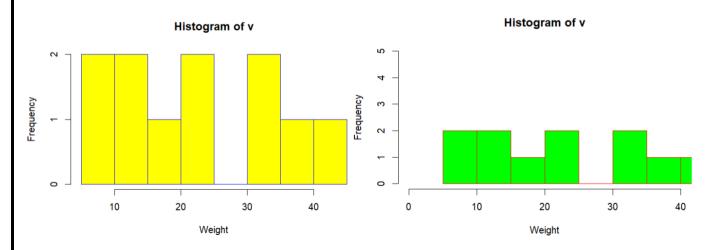


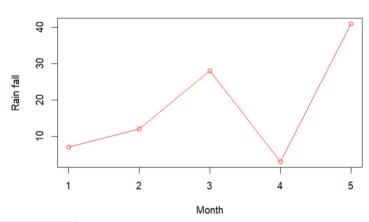
Mileage Data



Number of Cylinders

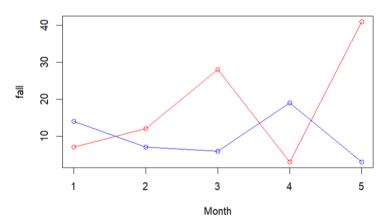
Histogram





Multiple lines in chart
v <- c(7,12,28,3,41)
t <- c(14,7,6,19,3)
plot(v,type = "o",col = "red", xlab = "Month", ylab = "Rain
fall", main = "Rain fall chart")
lines(t, type = "o", col = "blue")</pre>

Rain fall chart



```
# ScatterPlot
input <- mtcars[,c('wt','mpg')]
head(input)
plot(x = input$wt,y = input$mpg,
        xlab = "Weight",
        ylab = "Milage",
        xlim = c(2.5,5),
        ylim = c(15,30),
        main = "Weight vs Milage")</pre>
```

Weight vs Milage

