**Basics**

plot.new()

plot.window(xlim=c(0,10), ylim=c(0,10))

axis(1)

axis(2)

X<-1:10

Y<-1:10

points(X,Y)

title(main="The Overall Title")

title(xlab="An x-axis label")

title(ylab="A y-axis label")

box()

abline(a=0, b=1)

**Pie Chart**

x <- c(21, 62, 10, 53)

labels <- c("London", "New York", "Singapore", "Mumbai")

pie(x, labels, main = "City pie chart", col = rainbow(length(x)))

legend("topright", c("London","New York","Singapore","Mumbai"), cex = 0.8, fill = rainbow(length(x)))

**Bar Chart**

#1 Create the data for the chart.

H <- c(7,12,28,3,41)

barplot(H)

M <- c("Mar","Apr","May","Jun","Jul")

barplot(H,names.arg = M,xlab = "Month",ylab = "Revenue",col = "blue",main = "Revenue chart",border = "red")

#3 Create the input vectors.

colors <- c("green","orange","brown")

months <- c("Mar","Apr","May","Jun","Jul")

regions <- c("East","West","North")

# Create the matrix of the values.

Values <- matrix(c(2,9,3,11,9,4,8,7,3,12,5,2,8,10,11),nrow = 3,ncol = 5,byrow = TRUE)

barplot(Values, main = "total revenue", names.arg = months, xlab = "month", ylab = "revenue", col = colors)

legend("topleft", regions, cex = 1.3, fill = colors)

**Histogram**

hist(x)

**Box Plot**

input <- mtcars[,c('mpg','cyl')]

# Plot the chart.

boxplot(mpg ~ cyl, data = mtcars, xlab = "Number of Cylinders", ylab = "Miles Per Gallon", main = "Mileage”)

# Plot the chart.

boxplot(mpg ~ cyl, data = mtcars,

xlab = "Number of Cylinders",

ylab = "Miles Per Gallon",

main = "Mileage Data",

notch = TRUE,

col = c("green","yellow","purple"),

names = c("High","Medium","Low")

)

**ScatterPlot**

input <- mtcars[,c('wt','mpg')]

# Plot the chart for cars with weight between 2.5 to 5 and mileage between 15 and 30.

plot(x = input$wt,y = input$mpg,

xlab = "Weight",

ylab = "Milage",

xlim = c(2.5,5),

ylim = c(15,30),

main = "Weight vs Milage"

)

**Line Chart**

# Create the data for the chart.

v <- c(7,12,28,3,41)

t <- c(14,7,6,19,3)

# Plot the bar chart.

plot(v,type = "o",col = "red", xlab = "Month", ylab = "Rain fall", main = "Rain fall chart")

lines(t, type = "o", col = "blue")

**Scatter Plot Matrix**

pairs(~wt+mpg+disp+cyl, data = mtcars, main = "Scatterplot Matrix")