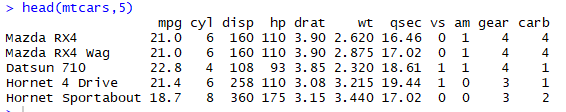
# Lab 05: Getting started with R and building our R applications

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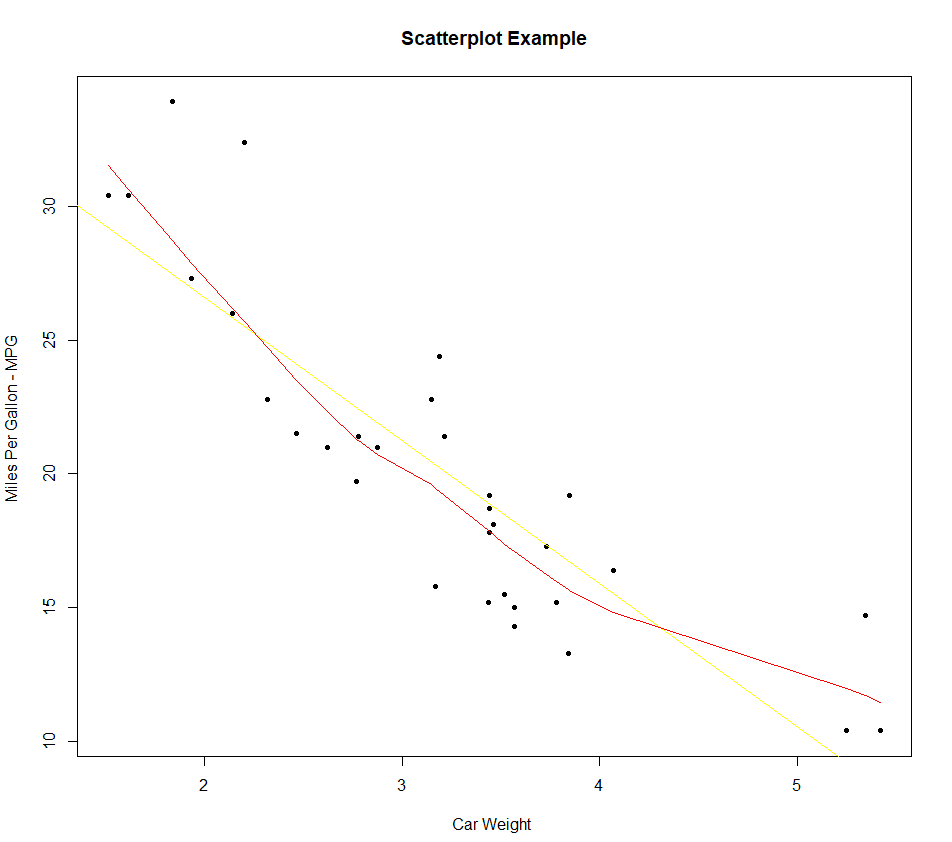
**GITHUB** : https://github.com/ali28729/SE312\_Labs/tree/master/Lab05

BESE6B

1. Use the mtcars data set to plot different graphs in order to convince a buyer which is the best car to buy. Assume some kind of criteria that the car is interested in e.g. Young buyer with interest in speed, or an executive thinking of buying a luxury sedan etc.



**Plotting between Mpg and hp**



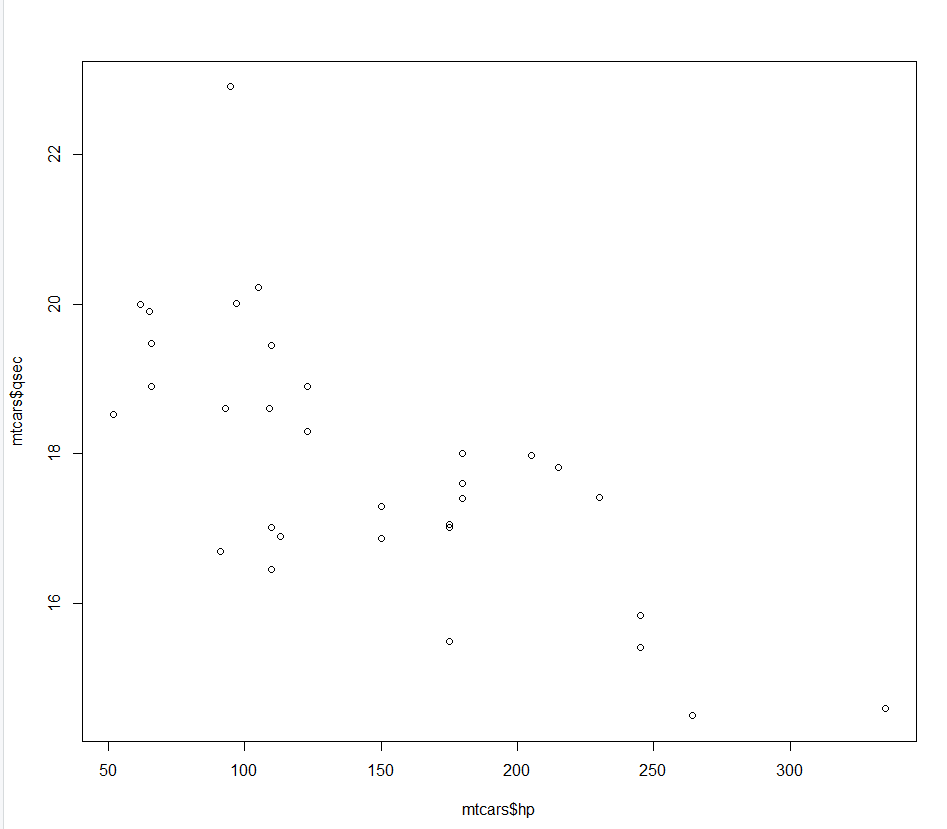
> plot(mtcars$wt, mtcars$mpg, main="Scatterplot Example", xlab="Car Weight ", ylab="Miles Per Gallon - MPG ", pch=20)

> abline(lm(mtcars$mpg~mtcars$wt), col="yellow") # regression line (y~x)

> lines(lowess(mtcars$wt,mtcars$mpg), col="red") # lowess line (x,y)

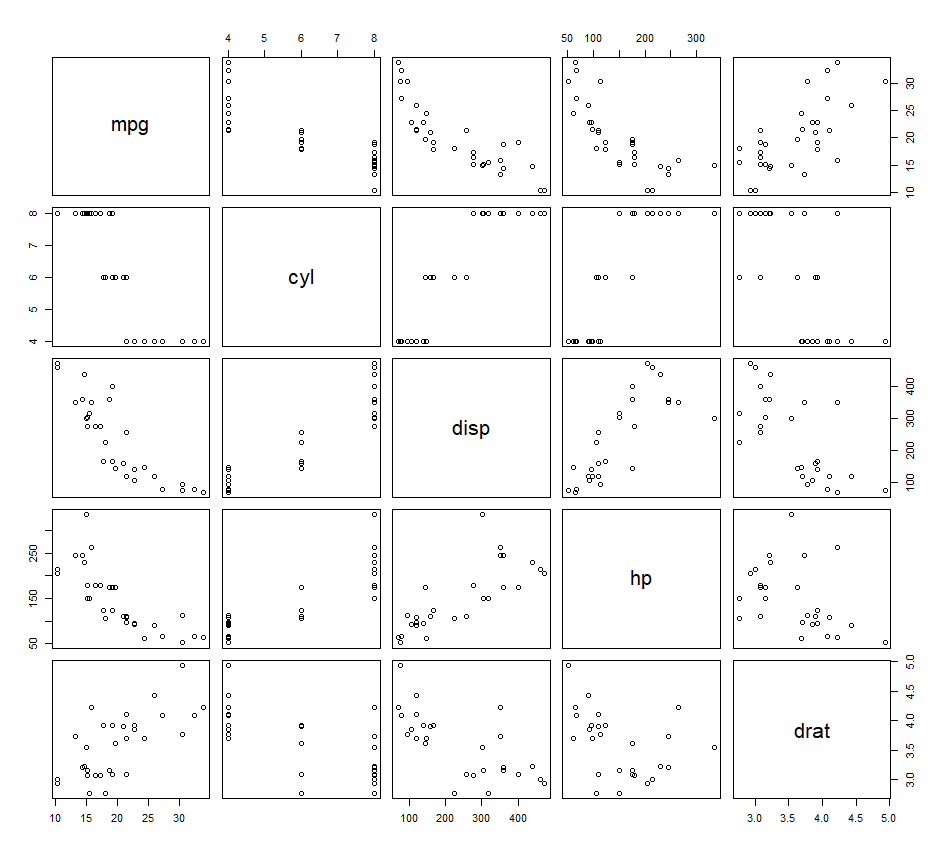
**Plotting between qsec and hp:**

|  |
| --- |
| > plot(x = mtcars$hp, y = mtcars$qsec) |
|  |
| |  | | --- | |  | |



**Plotting between 1 and 5 all attributes through combined scatter plot**

|  |
| --- |
| > plot(mtcars[,1:5]) |
|  |
| |  | | --- | |  | |



**Plotting b/w 2 and 5 all attributes by**

**combined scatter plot**

> plot(mtcars[,2:5])

