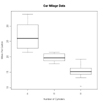
**Boxplots**

Boxplots can be created for individual variables or for variables by group. The format is **boxplot(***x***, data=)**, where *x* is a formula and **data=** denotes the data frame providing the data. An example of a**formula**is y~group where a separate boxplot for numeric variable y is generated for each value of group. Add **varwidth=TRUE** to make boxplot widths proportional to the square root of the samples sizes. Add**horizontal=TRUE** to reverse the axis orientation.

# Boxplot of MPG by Car Cylinders   
boxplot(mpg~cyl,data=mtcars, main="Car Milage Data",   
   xlab="Number of Cylinders", ylab="Miles Per Gallon")

[](http://www.statmethods.net/graphs/images/boxplot1.jpg) click to view

boxplot(wt~cyl, data=mtcars, main=toupper("Vehicle Weight"), font.main=3, cex.main=1.2, xlab="Number of Cylinders", ylab="Weight", font.lab=3, col="darkgreen")

