APPM 2720 Lecture 2.2

Using built in functions in R and writing your own.

See the script Rfunctions.R

Using the apply function

See Rapply.R

The apply finds statistics for subgroups of the data

- apply for regular tables to find stats for say the rows or columns
- tapply for stats where the subgroups are given by different catgeories
- lapply for stats where the subgroups are the components of a list.

Boxplots - a quick definition

Invented by John Tukey as an alternative to a histogram.

- · Notch: a line at the median of the data
- upper and lower hinge (25% and 75% quartiles)
- box joins the hinges
- inner fence +1.5 IQR from each edge of box
- whiskers line from box to last observation before the inner fences
- points beyond fences are plotted individually and are considered unusual

An example: mileage (1000s) AudiA4 dataset

