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

- 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