## Introduction to R Session 3: Plotting functions and formulas

- 1. Using the crab data (for the last time!);
  - a. Plot number of satellites versus width
  - b. Plot number of satellites versus weight, and color-code the points differently if their width exceeds 26cm
  - c. Illustrate the distribution of number of satellites, for crabs of different colors. (There are several ways to do this)

For all of these, try re-sizing the graph after it is drawn; what happens to the axes?

- 2. Save one of your plots from Q1 as a graphics file (e.g. PNG, JPEG, PDF) and then place it in an external document (e.g. a PowerPoint slide). Are the axes big enough?
- 3. The titanic dataset, on the course site, contains information on who survived the <u>sinking of the Titanic</u>, amount Males/Females, 1<sup>st</sup>/2<sup>nd</sup>/3<sup>rd</sup> class passengers and Crew, Adults/Children. For each category, n denotes the total number, and prop denotes the proportion of them who survived.

Using the stripchart() function and the formula syntax, illustrate which categories were most and least likely to survive. (Hint: you will need to use the help page for stripchart(), but its syntax follows the commands seen in the slides)