

Assignment 1.12 – Factors and Special Values

Write a R script that provides answers to the following questions. If any questions need direct answers, give them in a comment.

- a. Load the data set **InsectSprays**. How many levels does the column **spray** have? What are the levels? Are they ordered or unordered?
- b. Make a vector that contains the names of seven fruits, some that you like and some that you don't. Name it **fruits**.
 - b.1. Convert **fruits** into a vector of unordered factors. What levels are in **fruits** now?
 - b.2. Create another vector that describes the color of each of these fruits named **fruit.colors**. Be sure that the colors in the same order as **fruits** so that they match up. Convert this vector into unordered factors.
 - b.3. Now create a third vector that rates your preference for each fruit in **fruits**. Ratings can be up to you, but they should be ordered (like good, better, best) and contain at least 3 rankings. Convert this vector into ordered factors.
 - b.4. Now, bind all three factored vectors together into a data frame named **fruit.info**. Be sure each column has a good name!
 - b.5. Add a fruit to your *data frame* that you haven't yet tried. Look up the color, but put NA for the preference.
- c. Load the data set **airquality**.
 - c.1. Does this data set contain missing values?
 - c.2. How many missing values are there in each of the data columns (**Ozone**, **Solar.R**, **Wind**)?
 - c.3. Produce a data frame **airquality.cleaned** that removes all observations (rows) with missing data.

Turn in your R script.