Homework #1: Warming up to R

Submit a single neat pdf file to Moodle by Monday, Sept. 1 at 10am. The simplest way to do this is by writing a Word (or similar) document and exporting as a pdf before submission. Moodle will not accept any other format than pdf for this assignment.

Note that you should NOT submit any code or output for this assignment.
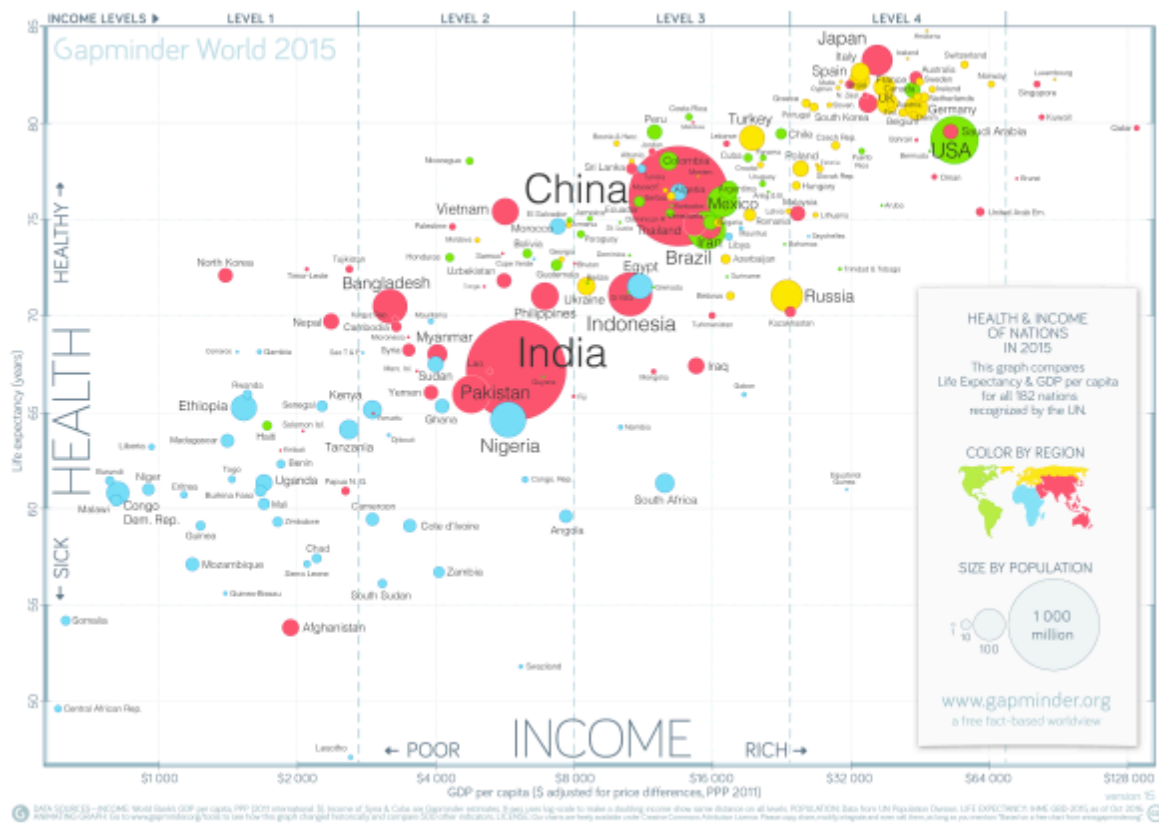
Problem 1

Re-open the scooby data set in R and glance through the rows and columns. Imagine you've been asked to use this set to answer the question, "do women who capture the villain get to unmask them as often as men who capture the villain?" What might you want to do in order to answer this? What data challenges could you foresee? Write a short paragraph.

Problem 2

Find and download the `ggplot2` cheat sheet from the Posit (the company that makes RStudio) website. According to this, what are four possible (and equivalent) ways of plotting one categorical and one quantitative variable?

Problem 3

The following plot represents data from the famous `gapminder` data set.

There are four primary aesthetics here. Identify them by specifying both the variable and the way it's being represented. Also identify at least 3 non-data aspects of this plot.