Welcome!

The software used in our course is the famous and much loved implementation of S playfully called R (see http://www.r-project.org/ and http://www.revolutionanalytics.com/). In this introductory pre-lecture, we will see how to download and install so that we can be productive.

Installing R

As stated on the official website, http://www.r-project.org/, "R is a language and environment for statistical computing and graphics". We will find this environment very useful in our course because it allows us to simulate data, perform analyses "by hand" through, for example, matrix computations, and run very well developed routines for common methods in data analysis. It is a GNU project modeled after the S language and environment, but without the hefty price tag http://spotfire.tibco.com/products/s-plus/statistical-analysis-software.aspx.

Rather than speak abstractly, we will dive right in!

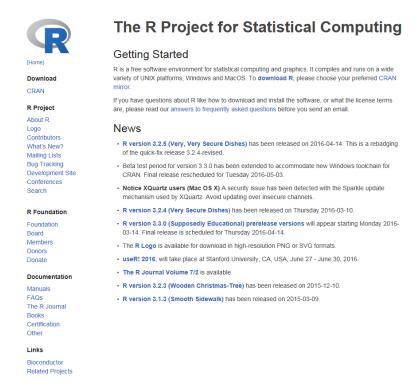
I'll assume in this activity that you are on a machine (PC, for example) on which you have administrative rights and can download and install software.

Following the link to

http://www.r-project.org/

we see many other links, among them a way to download the software and then copious amounts of documentation. R is a small universe, so don't be overwhelmed; just rest assured that you will be able to perform almost any calculation you would like in a well-respected environment. (Once, when I indicated to a highly regarded actuary working at a local company that I was considering using a different environment, a look of horror came across his face. He shared his and his company's regard for R and hoped I'd stay with it. Obviously, I did.) We can access documentation from the website, as well as from the installed environment itself once you are up and running.

Here is what the home page looked like for me this morning.



Now download and install the R package from the link labeled "CRAN" under the heading *Download*, *Packages* by picking an appropriate mirror site. You should soon be looking at the rather minimalist window captured in the screen shot below.

Or, download R from Revolution Analytics. This will give you a more robust (though less simple) interface. Either will work beautifully for our course; it's just a question of which program you feel more comfortable with. Both interfaces are shown below.

