R and RStudio Quick Start

First you need to install R (the language) and RStudio (the interface that allows us to use the language).

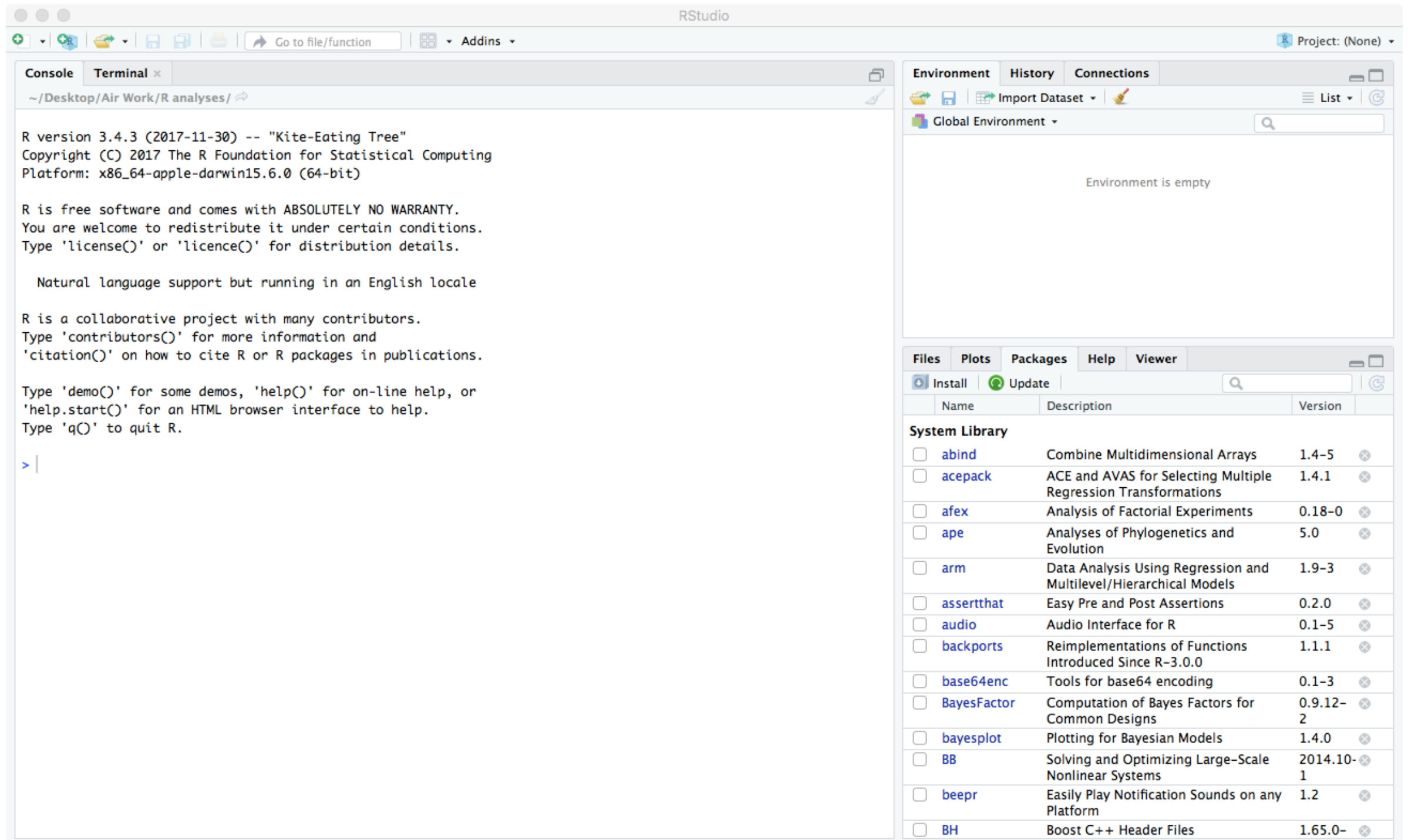You can install R from here:

https://www.stats.bris.ac.uk/R/

And RStudio from here:

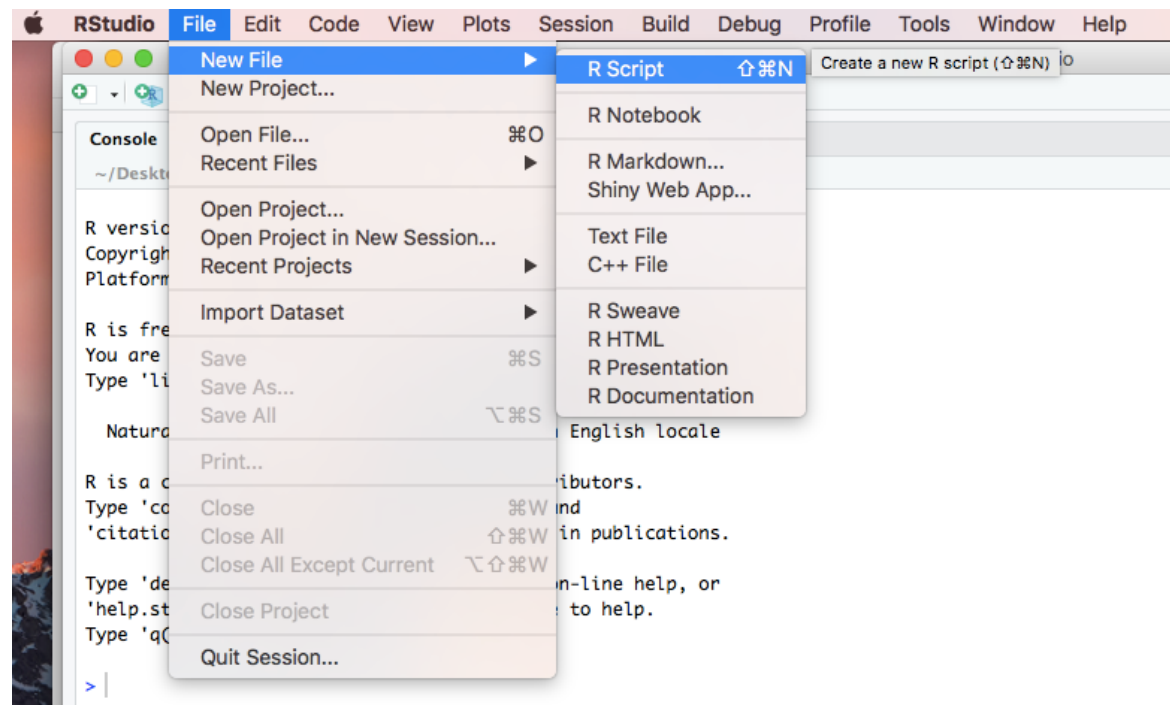**https://www.rstudio.com/products/rstudio/download/#download**

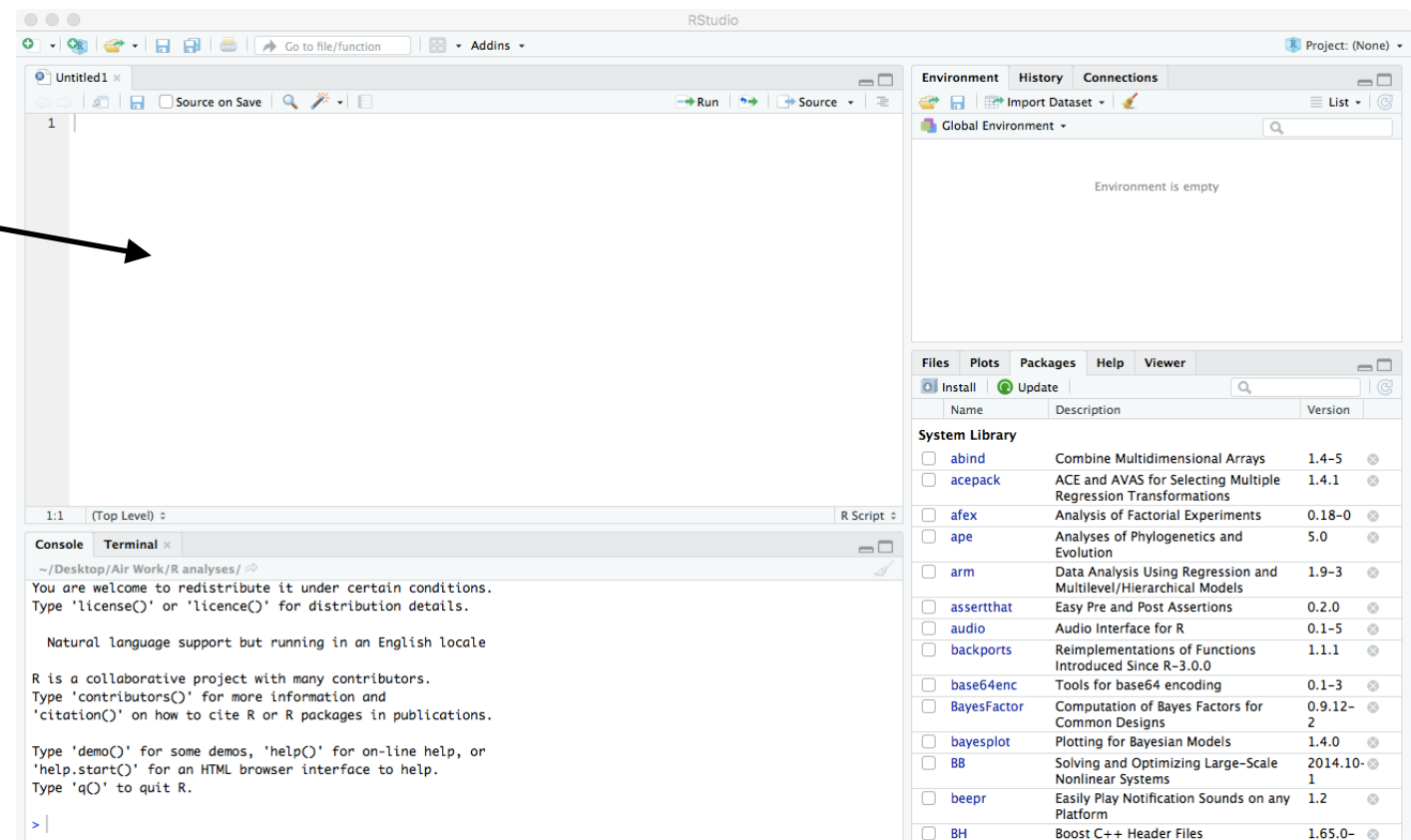Once both are installed, click on RStudio to begin…

When you first start RStudio it will look like this:
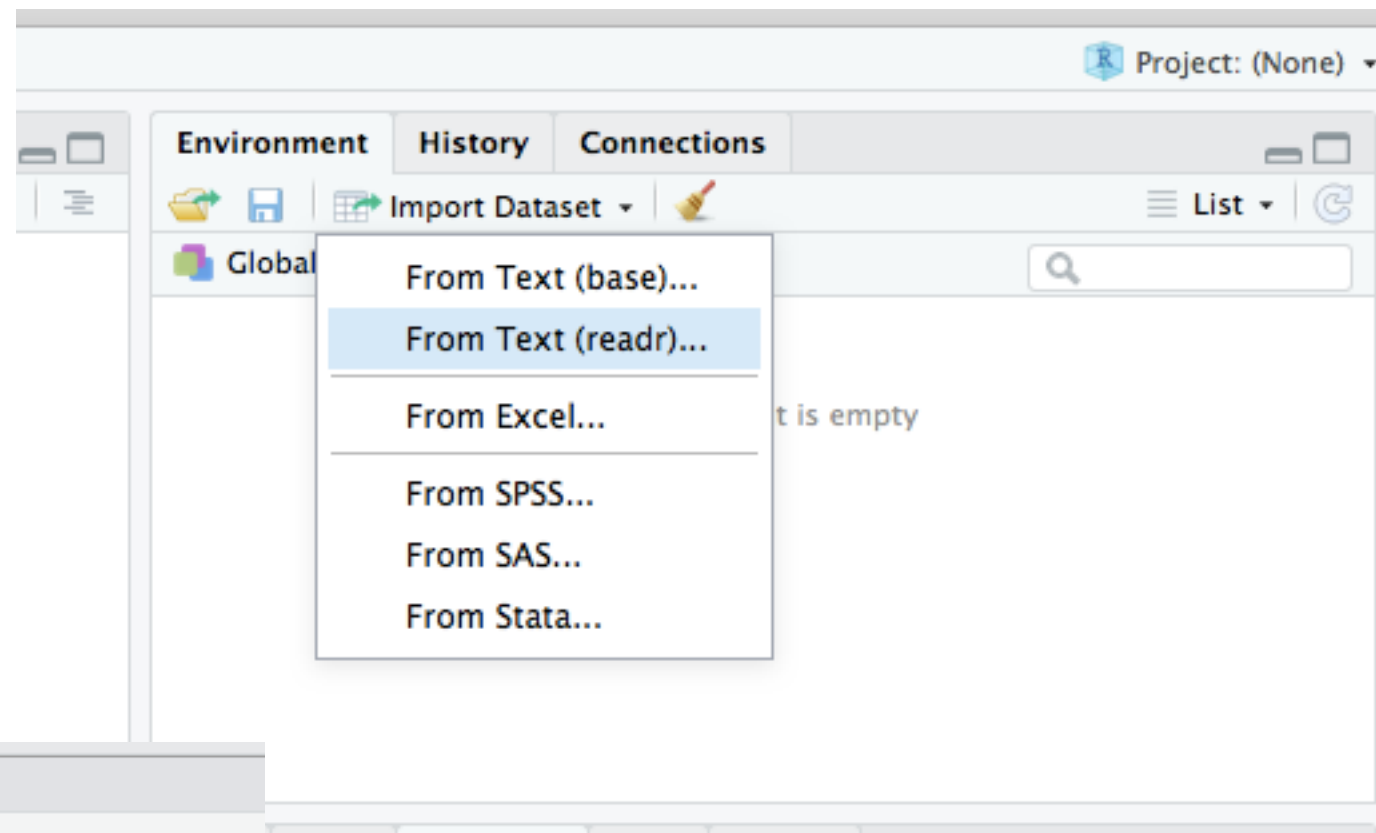
You can start a new R Script like this:

You can start writing your script here

Now import some data.

I'm going to import some data in .csv format.

I choose my file, and then tell R which column is a factor - I then need to specify the names of the factor levels (which are *Rare* and *Common*) for the column labelled "Condition".
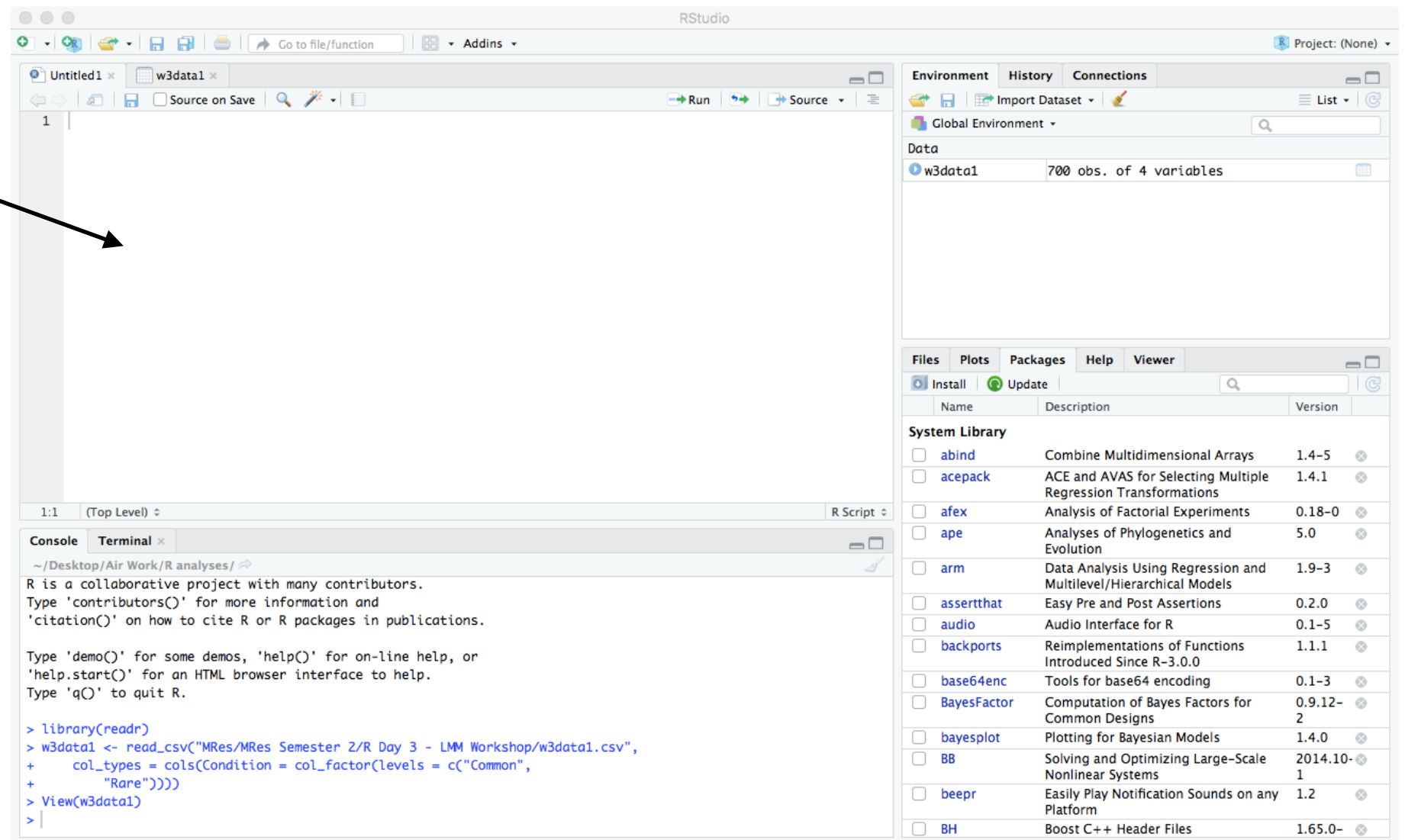
RStudio now looks like this:
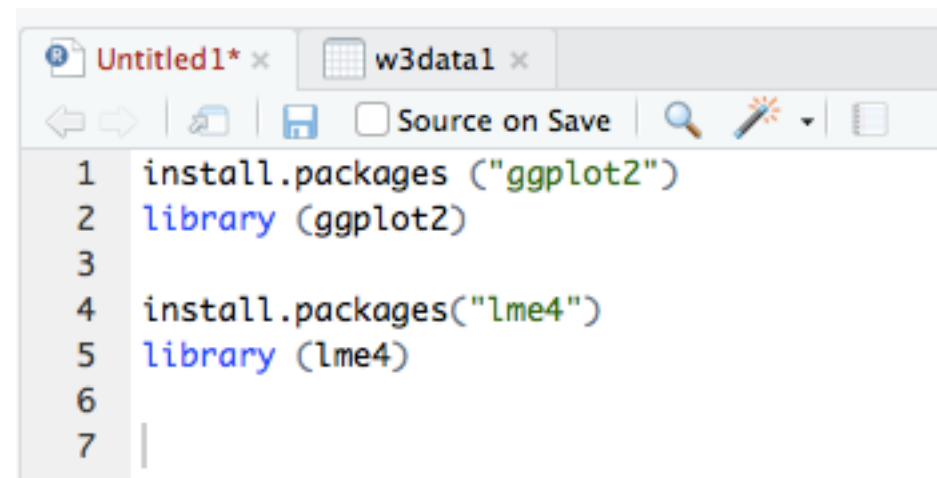

Here are my data

I can now start writing my script here.

Don't forget to first add code to load the packages you need.

Here I am downloading the `ggplot2` and the `lme4` packages. If you have already downloaded them you can just load them using the `library (packagename)` function.
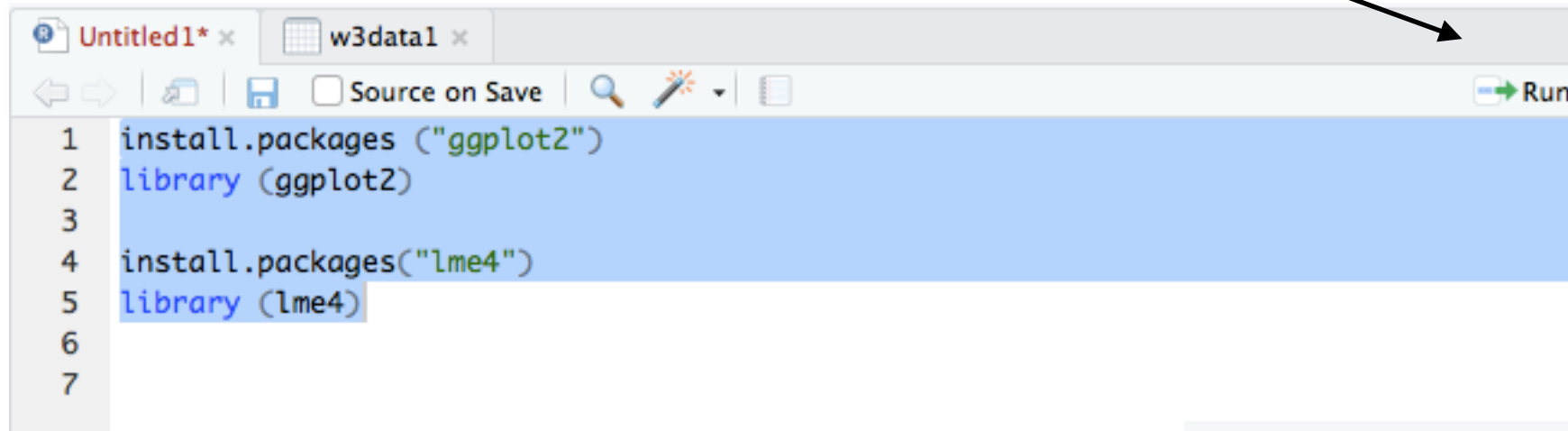
Don't forget to save your script as you go along - when its title is in red, it means you have made changes to your script since it was last saved.

```
Untitled1* ×        w3data1 ×

     Source on Save

1   install.packages ("ggplot2")
2   library (ggplot2)
3
4   install.packages("lme4")
5   library (lme4)
6
7   |
```
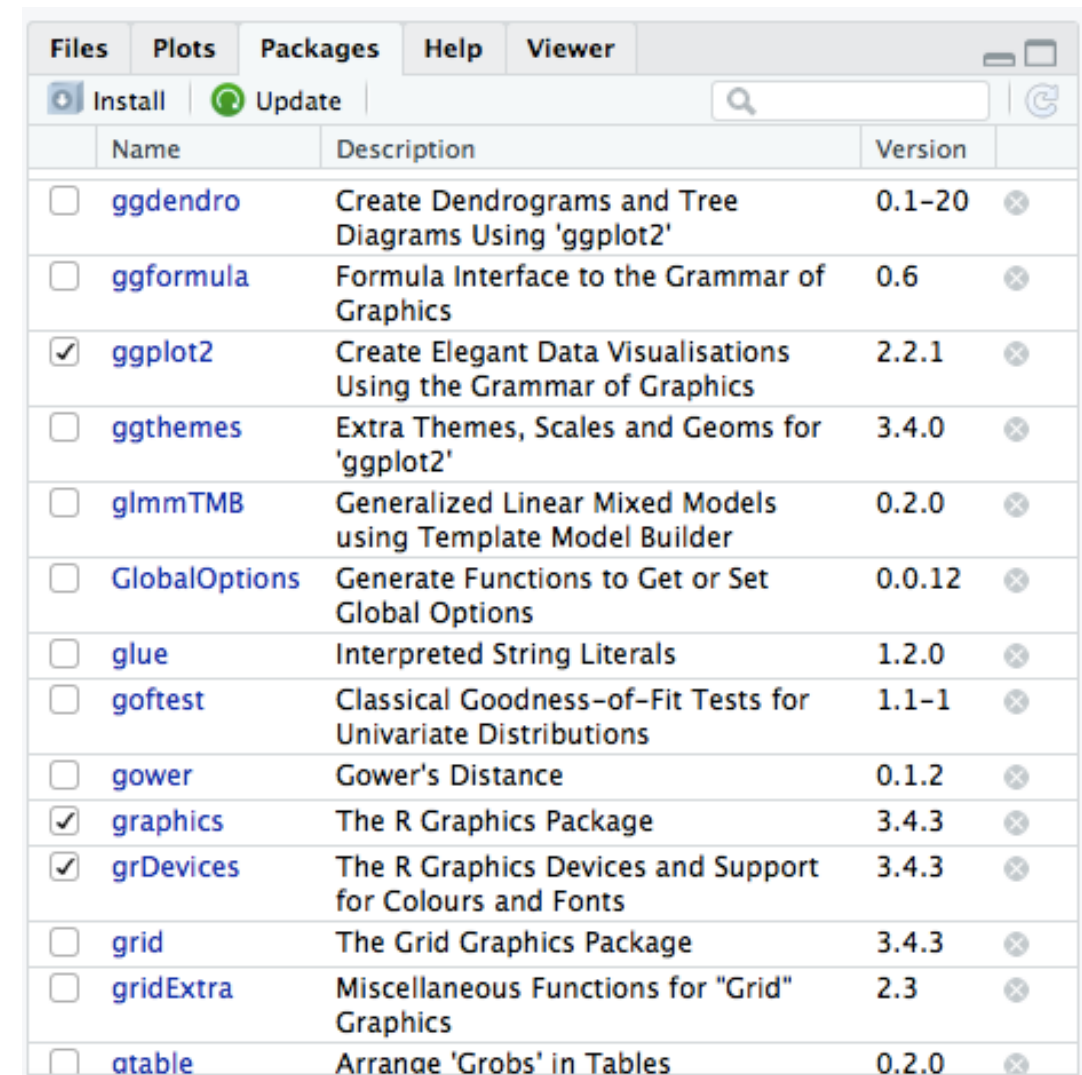
Highlight the code you want to run, and then either press CMD-Return or click Run.

You will now see ticks besides these packages in the window on the bottom right.