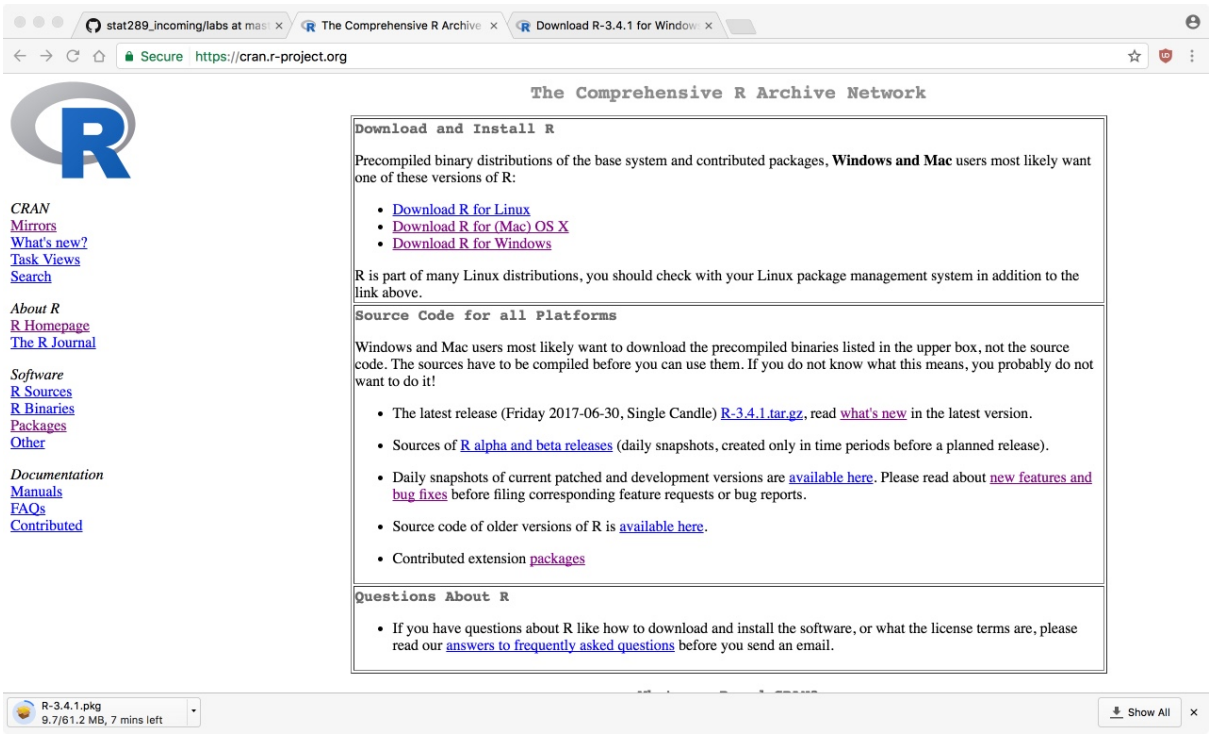
Installing R and RStudio for OS and Windows

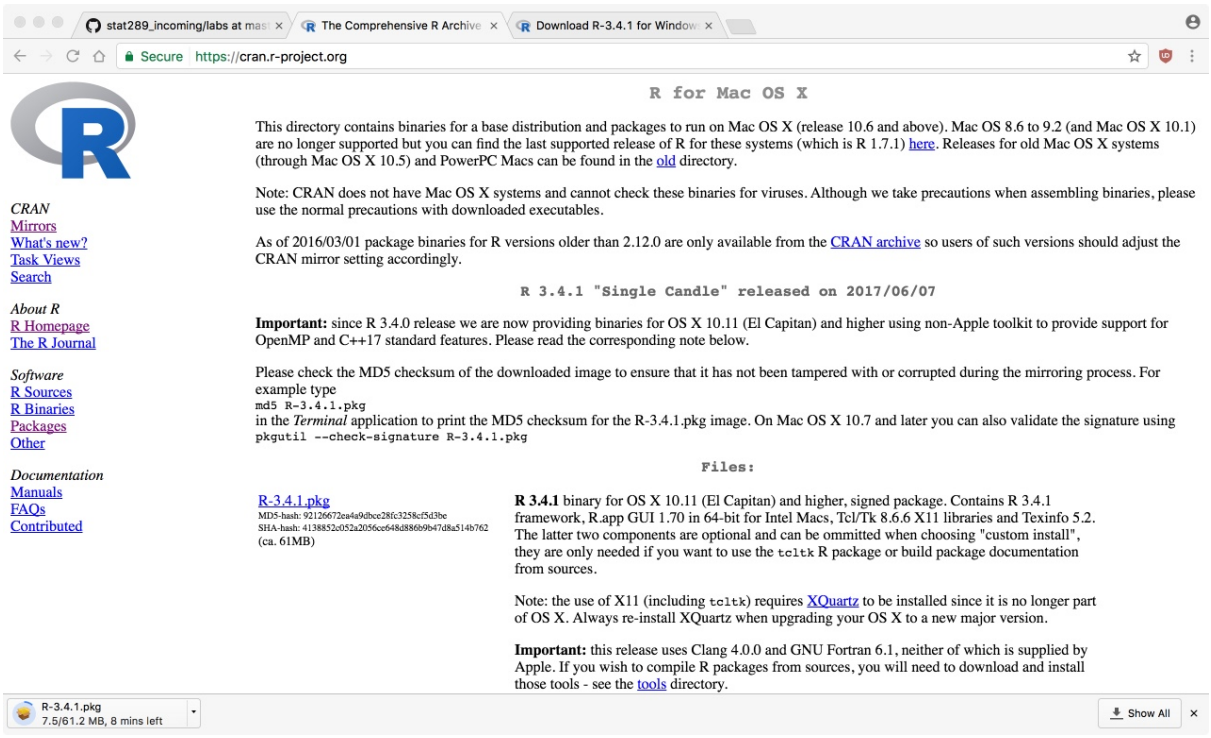
R is an open source programming language, meaning that you can install it for free on nearly any operating system. The steps here guide you through install the core R system, the RStudio IDE, and relevant R packages.

Download R

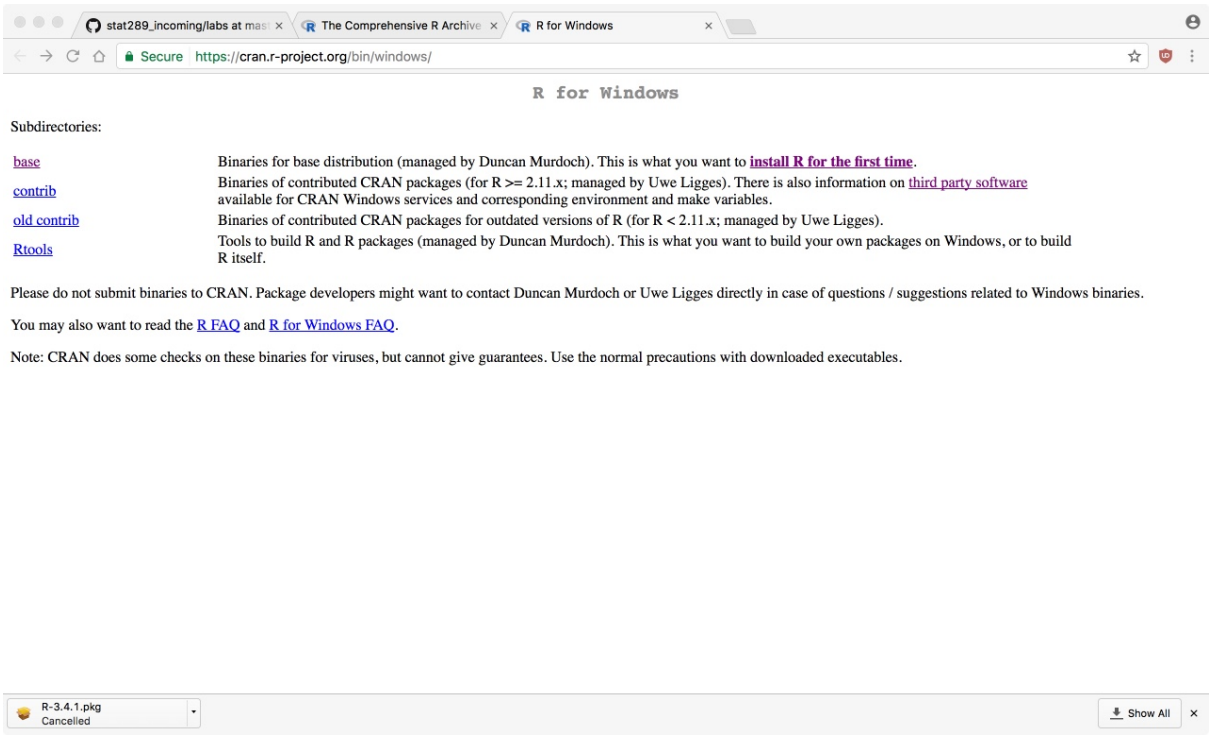
The first step is to download the R programming language. To do this go to https://cran.r-project.org/ and select your platform:



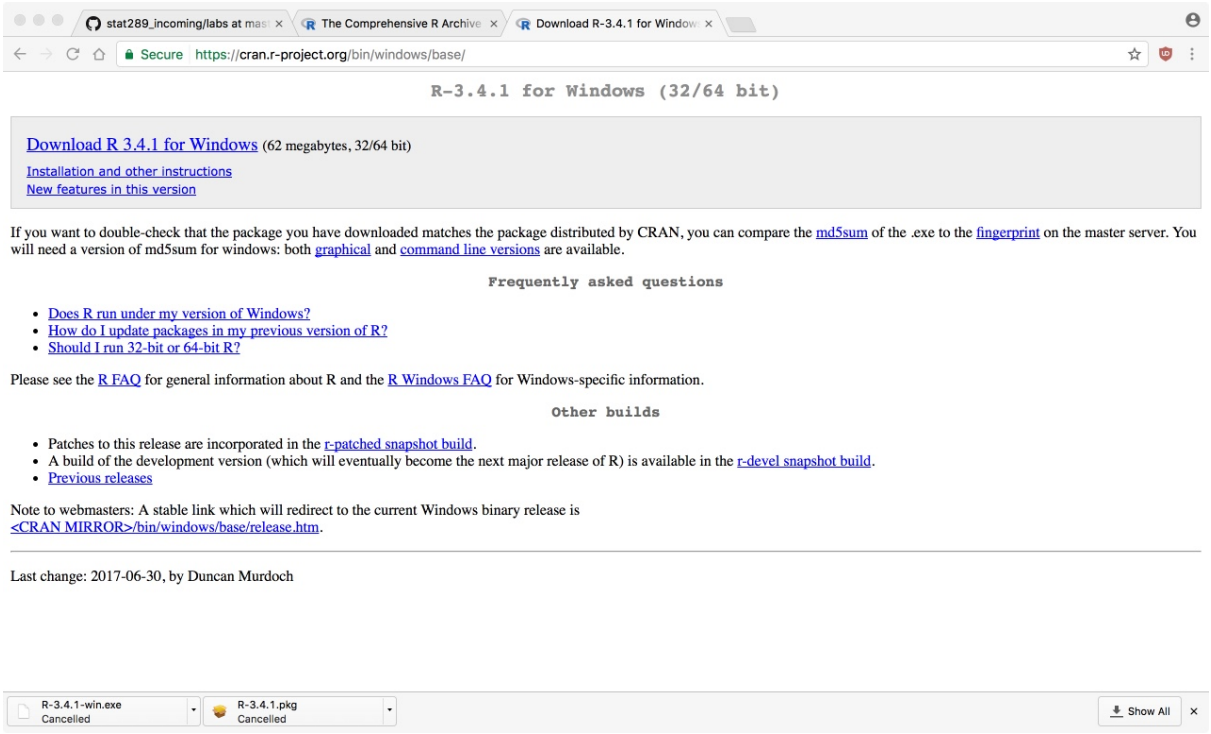
For macOS, just download R-3.4.1 (or whatever is the most recent):



For Windows, first select **base**



And then *Download R 3.4.1*

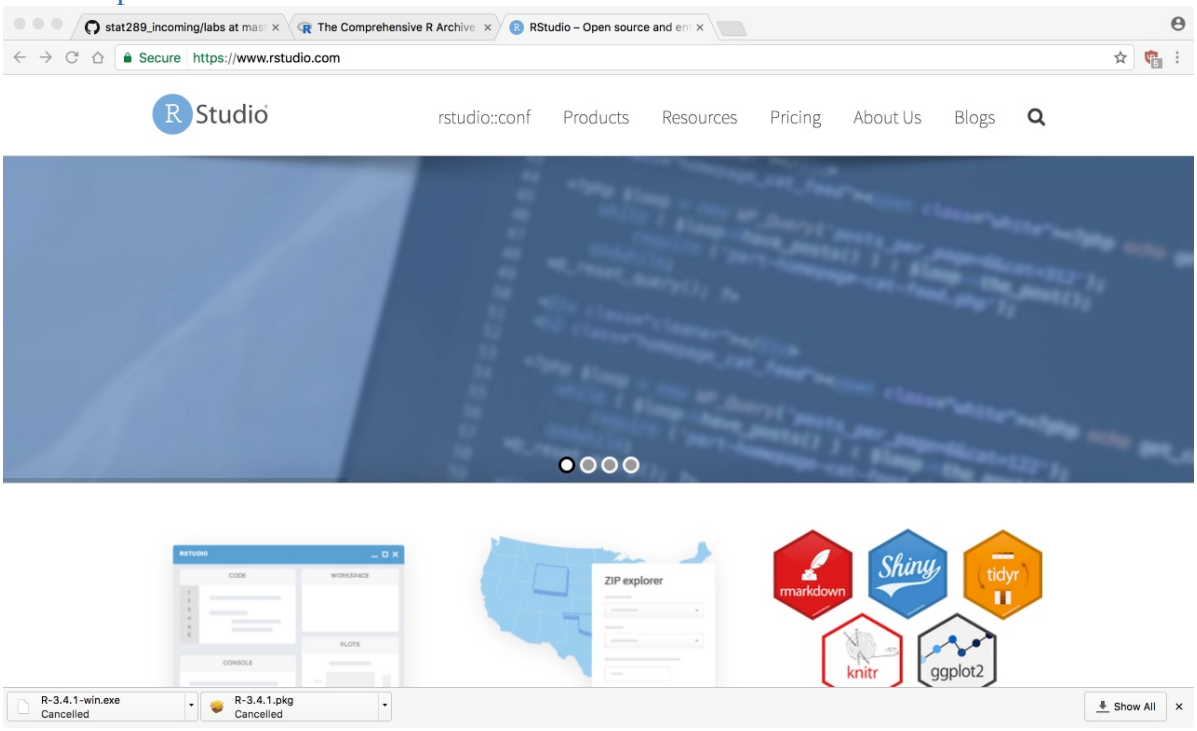


One you have the .pkg (macOS) or .exe (Windows) file, install this on your computer according to the default settings.

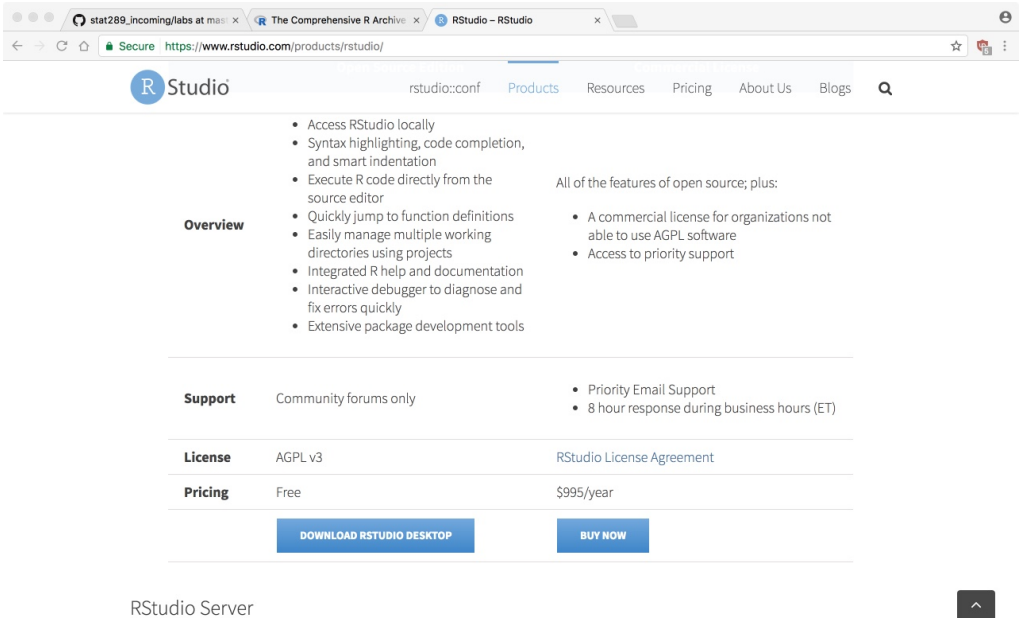
Download RStudio

The files you just downloaded are the core R language files doing all the hard work of processing data. Next, we'll install integrated software that makes calling R easier.

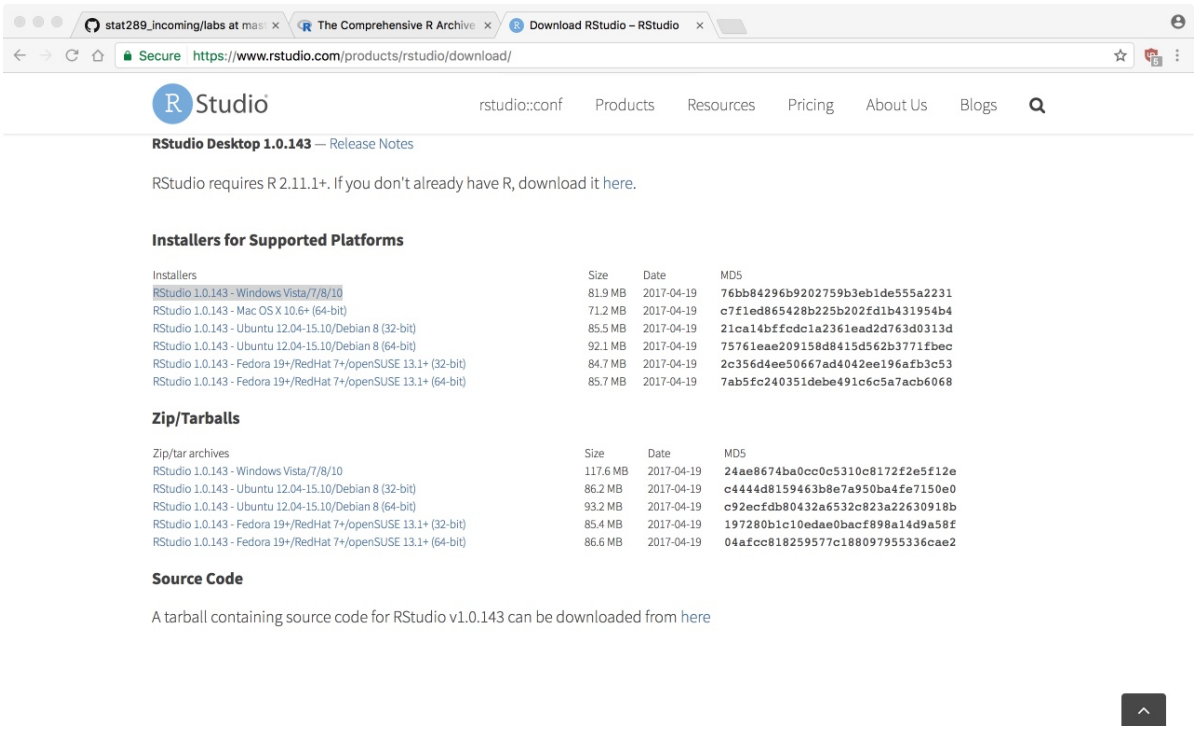
Go to https://www.rstudio.com/. Click on Products => RStudio.



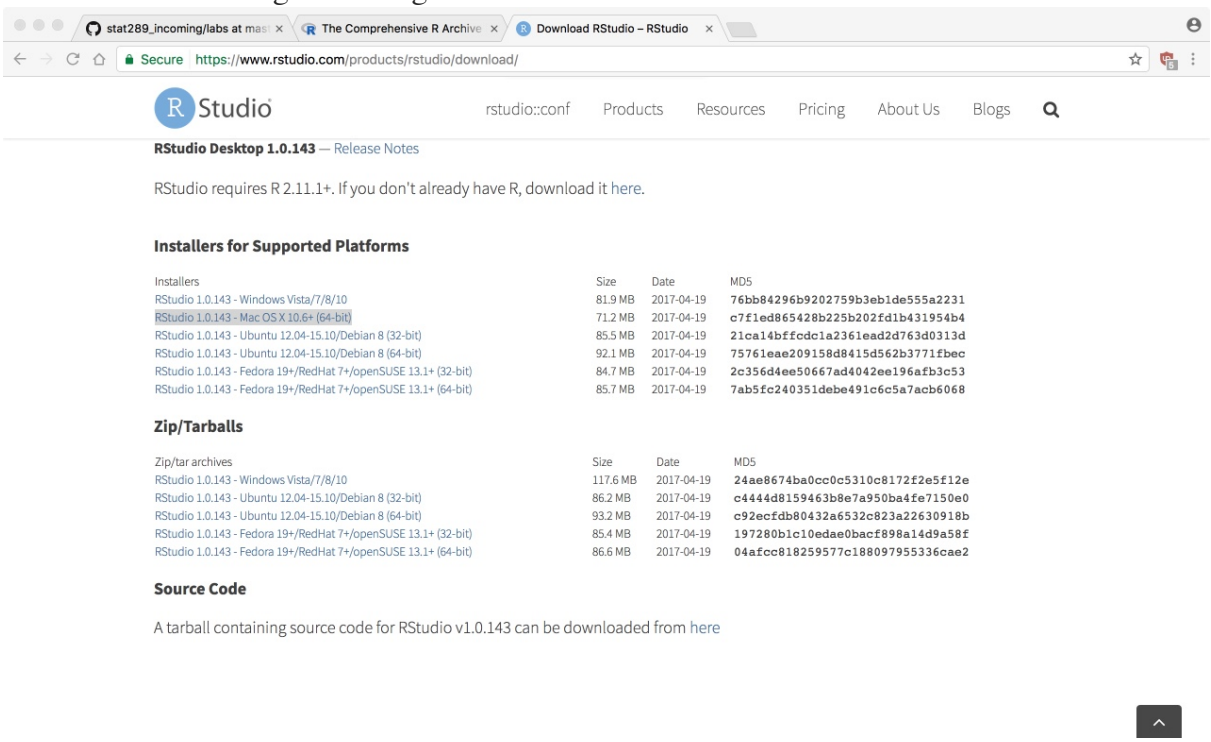
Scroll down to the **DOWNLOAD RSTUDIO DESKTOP** button and click on it.



Scroll down again to the **Installers for Supported Platforms**. The Windows link gives you an exe:



And the macOS link gives a dmg:

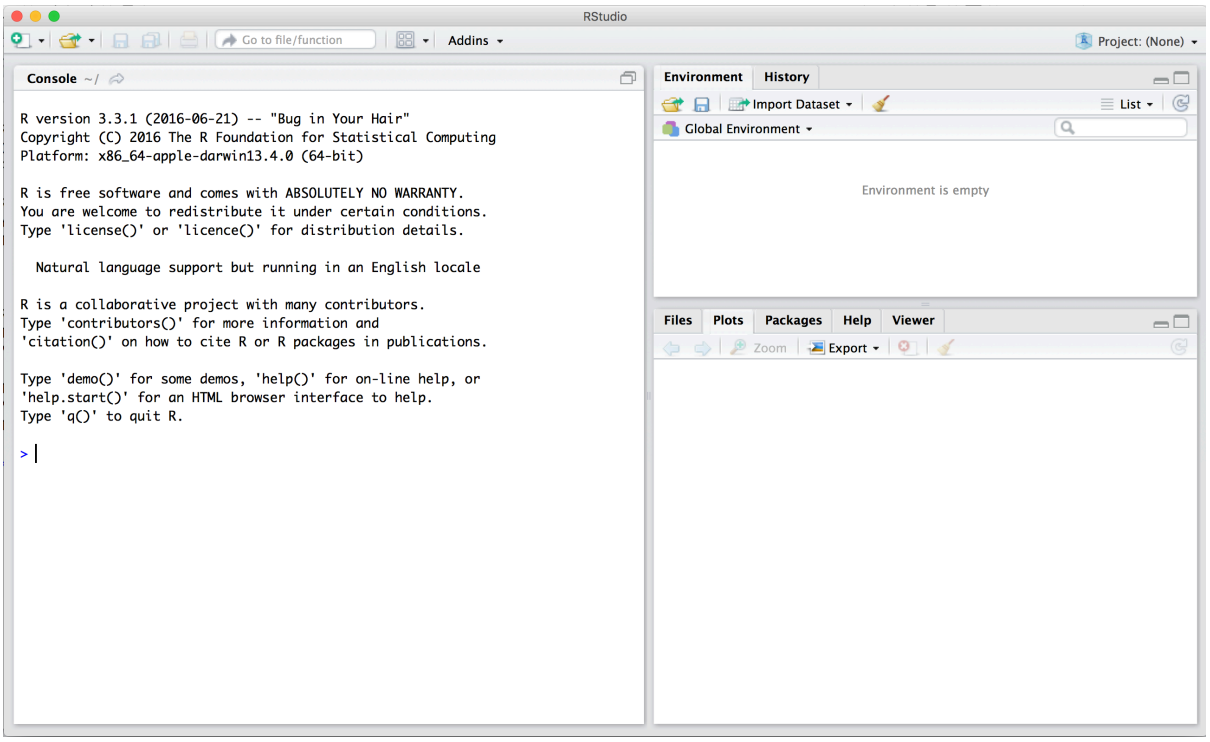


Now, install RStudio as you would any other program. It should link automatically to the version of R you just installed.

Installing R packages

The final step is to download all of the R packages that we will need for the semester. It is generally easier to do these all at once rather than as we go along.

Go ahead and launch RStudio. You should see a window that looks like this:



To install the packages required for class, run the following lines of code in the console (copy and paste them, then click "enter"). There may be a warning about one or two packages not being available. Note that this may take 5-10 minutes to finish; on slower connections or older computers, it may take even longer. If you run into any problems, please let me know!

```
pkgs <- c("ggplot2","Rmisc","gdata","lubridate","tidyverse","tidyr")

install.packages(pkgs,
                 repos = "https://cloud.r-project.org",
                 type = "binary",
                 dependencies = TRUE,
                 quiet = TRUE)
```