Step 1: Download R and install R:

https://cran.rstudio.com/

Step 2: Download and install Rstudio **after you install R**:

http://www.rstudio.com/products/rstudio/download/

For some potentially useful tips, see:

http://socserv.mcmaster.ca/jfox/Courses/R/ICPSR/R-install-instructions.html

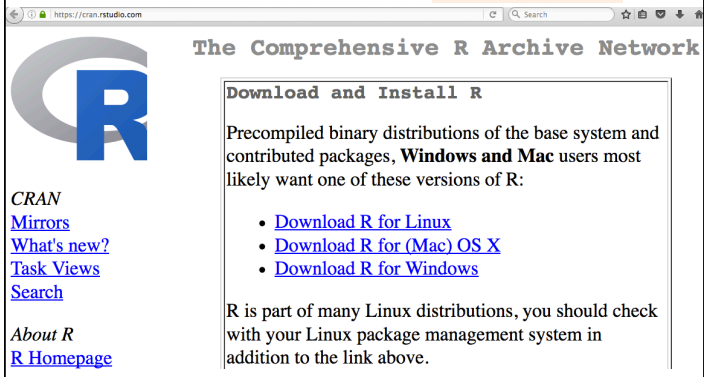
From: http://socserv.mcmaster.ca/jfox/Courses/R/ICPSR/R-install-instructions.html

Installing R on Windows

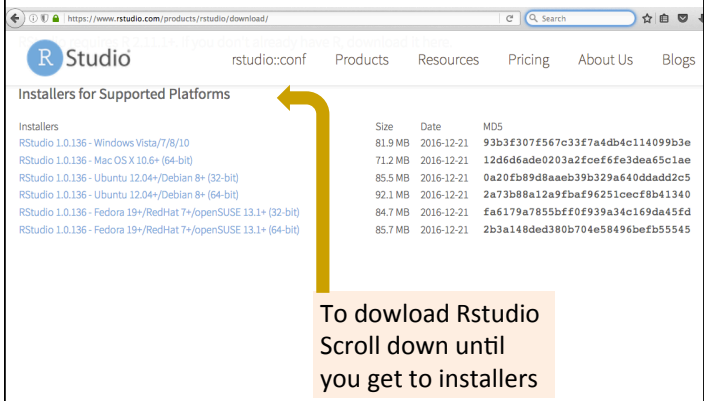
Instead of installing R in the standard location, C:\Program Files\R\R-3.1.1, I suggest that you use C:\R\R-3.1.1. This will allow you to install packages without running R with administrator privileges and will avoid problems that sometimes occur when there are spaces in paths.

https://cran.rstudio.com/

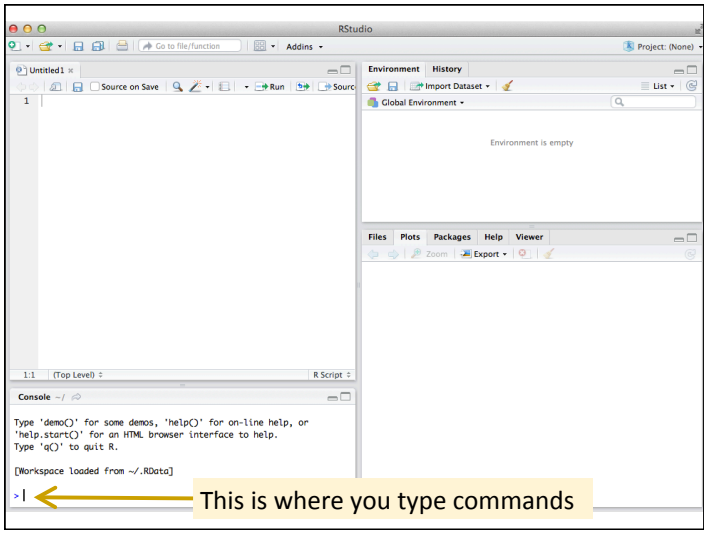
Download and install R first



http://www.rstudio.com/products/rstudio/download/



To dowload Rstudio Scroll down until you get to installers



If you would like to learn R or statistics or data analysis via Swirl:

http://swirlstats.com/students.html

Install swirl

Open RStudio (or just plain R if you don't have RStudio) and type the following into the console:

```
> install.packages("swirl")
```

Note that the `>` symbol at the beginning of the line is R's prompt for you type something into the console. We include it here so you know that this command is to be typed into the console and not elsewhere. The part you type begins after `>`.

After you have installed a package using

> install.packages("swirl")

You can load the package using the library command:

> library(swirl)

Use the following to install Swirl courses:

> install_from_swirl("Course Name Here")

The following will start swirl:

> swirl()

For a list of courses:

https://github.com/swirldev/swirl_courses#swirl-courses

http://swirlstats.com/scn/title.html

Some notes:

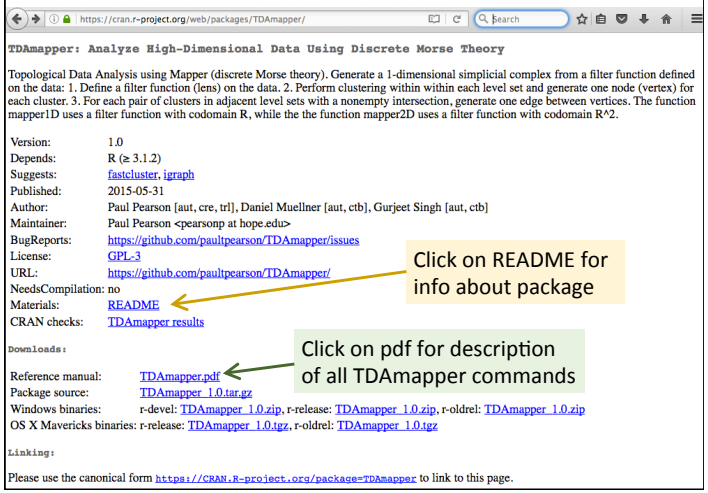
1.) Normally you only need to install a package once.
e.g > install.packages("TDAmapper")

2.) If you want to use a package, you must load it
e.g > library("TDAmapper")
You only need to do this once per session.

3.) If you want to repeat a command, you can use the up-arrow on your keyboard to obtain previously typed commands in the console.

4.) When you start typing commands, R will show you some choices. You can click on the one you want.

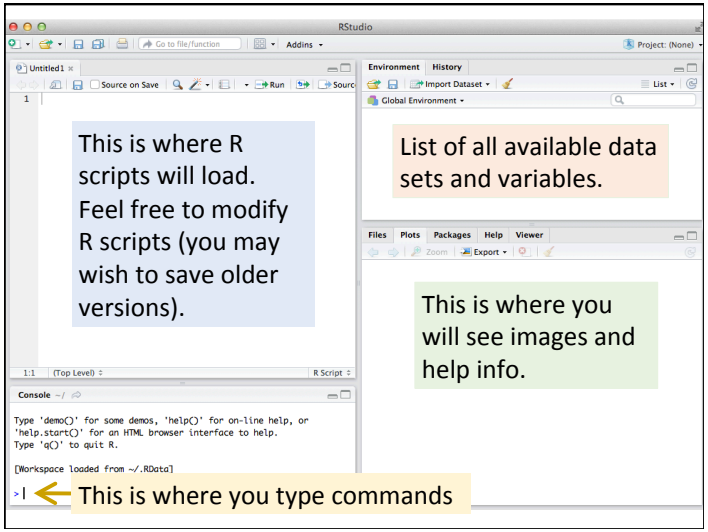
https://CRAN.R-project.org/package=TDAmapper



If you click on a .r file, it will load in the upper left box of R-studio.

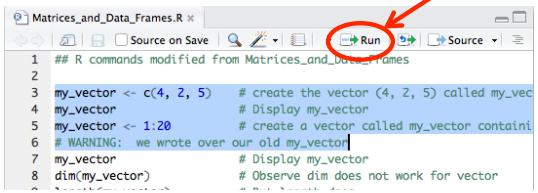
You should download the following files from: http://homepage.divms.uiowa.edu/~idarcy/COURSES/TDA/SPRING18/LAB1_Rintro

You can download some data files from http://homepage.divms.uiowa.edu/~idarcy/COURSES/TDA/SPRING18/Data



To run an R file:

1.) Select the section you want to run and click run



2.) Click on the line you want to run and click run. Continue clicking run to run the code line by line.