



Installing R and RStudio

The R Environment for Statistical Computing is a free software environment for statistical computing and graphics. RStudio is a graphical user interface to R. Both are used extensively in academics, industry and government. They are freely-available to download for Mac, Linux and Windows. We will use both extensively this semester. Please follow the steps below to install and test them on your computer.

Install R:

- Open a web browser to <https://www.r-project.org>.
- Click on the *download R* link near the top of the page.
- Scroll down the CRAN Mirrors page and select a U.S. site.
- Click on the *Download for (Mac) OS X* link (or the link that is appropriate to your computer's operating system).
- Once the download is complete, install the software. On Mac, this involves double-clicking on the downloaded image file.

Test Your R Installation:

- Double-click on the new R icon in your Applications menu.
- Once R has started, type $2+3$ in the window then hit return.
- If the output is 5, then R is installed correctly.

Install R Studio:

- Open a web browser to <https://www.rstudio.com>.
- Click on the *Download RStudio* link near the top of the page.
- Click on the RStudio Desktop, Open Source License, FREE Download link.
- Click download for your computer's operating system (e.g., Mac OSX).
- Once the download is complete, install the software. On Mac, this involves double-clicking on the downloaded image file.

Test Your RStudio Installation:

- Double-click on the new RStudio icon in your Applications menu.
- Once RStudio has started, type $2+3$ in the command window then hit return.
- If the output is 5, then RStudio is installed correctly.

Install MacTeX:

- Open a web browser to <http://www.tug.org/mactex>.
- Click on the *MacTeX Download* link near the top of the page.
- Click on the *MacTeX.pkg* link to begin the (almost 4GB!) download.
- Once the download is complete, install the software. On Mac, this involves double-clicking on the downloaded image file.
- We won't use \TeX directly. It is used by an R package to generate pdf versions of reports.