

R: Hands-on with using R for data analysis

Pre-course instructions

Thanks for signing up for this course! As you will be using your own computer for the course, you will need to install R.

[R](#) is a programming language that is especially powerful for data exploration, visualization, and statistical analysis. When you install it, it comes with a “front-end” that you can use to interact with it, but we will be using an alternative called [RStudio](#), which has more features. You need to install both; they are both free.

R and RStudio

Windows

You will need Windows Vista or later.

Install R from [CRAN](#), the Comprehensive R Archive Network. Download [this .exe file](#) (after clicking on the link, choose “Save file”). Then look in the location where you saved the .exe and double-click on it to run it. Note that if you have separate user and admin accounts in Windows, you should run the installers as an administrator: instead of double-clicking on the downloaded .exe file, right-click on it and select “Run as administrator”. Otherwise problems may occur later (e.g. when installing R packages).

You should also install RStudio via [the download page of its website](#).

A [video tutorial](#) is available.

Mac: macOS 10.13 (High Sierra) or later

Install R from [CRAN](#), the Comprehensive R Archive Network. Download [this .pkg file](#). Then look in the location where you saved the .pkg and double-click on it to run it.

You should also install RStudio via [the download page of its website](#).

A [video tutorial](#) is available.

Mac: Earlier versions of OS X/macOS, and other Mac operating systems

Install R from [CRAN](#), the Comprehensive R Archive Network. Go to [their Mac page](#) and find the appropriate version of R to download.

You should also install RStudio via [the download page of its website](#).

Linux

Install R from [CRAN](#), the Comprehensive R Archive Network. You can download the binaries for your Linux distribution via [CRAN's Linux pages](#). You can also use your package manager—e.g. for Debian/Ubuntu, run `sudo apt-get install r-base` and for Debian/Ubuntu, run `sudo dnf install R`.

You should also install RStudio via [the download page of its website](#).