How-To-R: A tutorial series on coding, and data analysis for Biologists

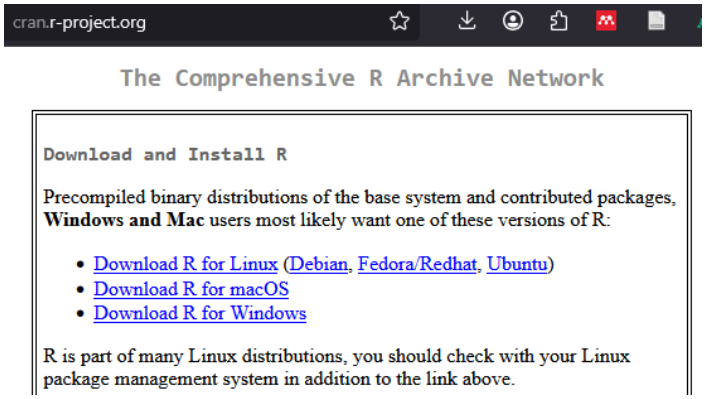
Part 0: Installing R and RStudio

0. Follow the numbered steps to prepare your machine for the R workshop

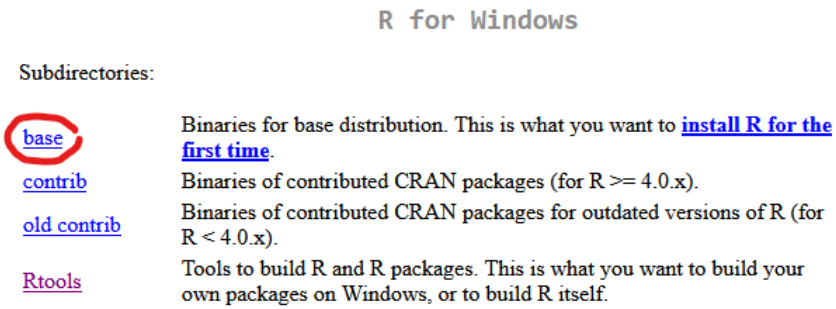
What is R?

R is a **free** programming language used in data analysis. It can import, transform, explore, plot, and model data, etc. The official source for R is The Comprehensive R Archive Network (CRAN).

1. Download R for your machine. (https://cran.r-project.org/)

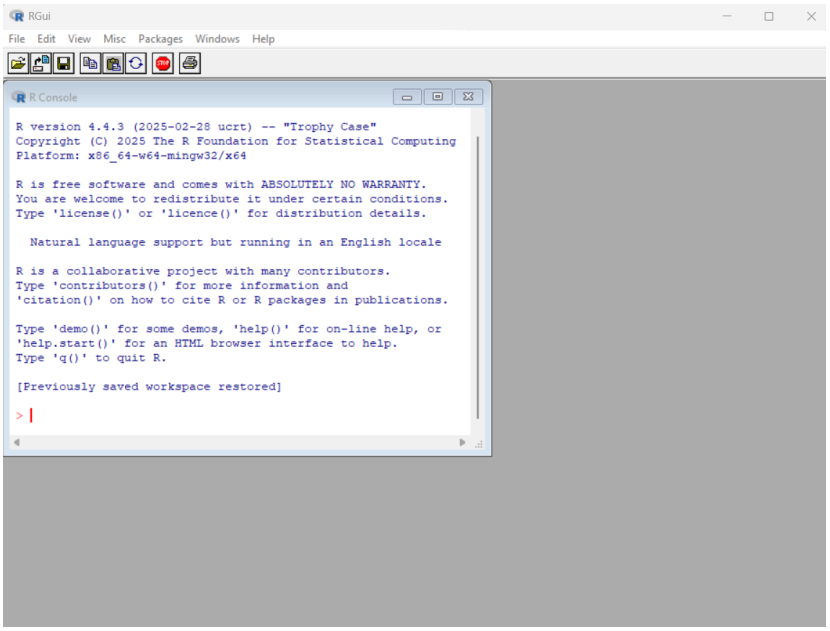


The tutorials were made using R for Windows, but most code will work on all systems. Download and install the *base* version suitable for your machine.



2. Install R and follow instructions with default options everywhere.

3. Open R to make sure it works. It should look like this:

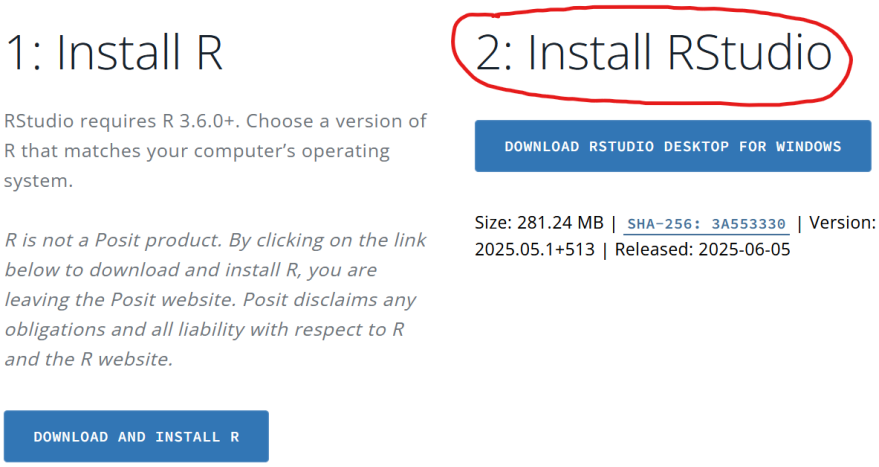


You can close R, and install RStudio

What is RStudio?

RStudio is a graphical front-end to work with R. Think of it like *friendlier user interface* that has other features to make R easier to look at and work with.

4. Download RStudio (https://posit.co/download/rstudio-desktop/)



5. Install with default settings. It should automatically detect your installed R.
6. Try to open RStudio, and you are ready to start part 1 of the tutorial.