

R and R studio

This will guide you on how to download and install R and RStudio. RStudio is an application that makes it easier to use R. Both R and RStudio are free.

Download and Install R:

R can be downloaded from the website of [The Comprehensive R Archive Network \(CRAN\)](https://cran.r-project.org/) by following the link that corresponds to your operating system - Windows, Mac or Linux.

Windows

Click the "Download R for Windows" link on CRAN website.

Click the "base" link.

Click the first link at the top of the new page, which will be the most recent version of R.

Run the installer program and follow the installation wizard.

R will be installed in the program files folder and a shortcut will be placed in the Start menu.

Note: you will need administration privileges to install new software.

MacOS

Click the "Download R for Mac" link on CRAN website.

Click on the link for the most current release of R.

Run the installer and follow the instructions.

If your computer requires a password before installing new programs, you will need to enter it.

Linux

R may be preinstalled on some Linux systems, but the newest version can be downloaded from the "Download R for Linux" link on CRAN website

Follow the directory trail to the version of Linux you wish to install on

The installation procedure will vary depending on the Linux system you use.

Download and Install R Studio desktop:

<https://posit.co/download/rstudio-desktop/> go to "step 2" click the "Download RStudio Desktop" button and follow the instructions. Once installed, RStudio can be opened like any other program on your computer. RStudio includes a console window for running code and viewing results, as well as additional features such as a text editor and graphics window.

Additional notes on R installation

Binaries Versus Source:

R can be installed from precompiled binaries or built from source on any operating system.

For Windows and Mac, installing from binaries is easy. For Linux, it is more common to build R from source files. The download pages on CRAN's website provide information about building R from source for Windows, Mac, and Linux platforms.

32-bit Versus 64-bit:

R comes in both 32-bit and 64-bit versions. In most cases, it won't matter which one you choose as both versions use 32-bit integers and compute numbers to the same numerical precision. However, 64-bit R uses 64-bit memory pointers and has a larger memory space, while 32-bit R uses 32-bit memory pointers and is slightly faster. If your operating system doesn't support 64-bit programs or your RAM is less than 4 GB, 32-bit R is recommended. The Windows and Mac installers will automatically install both versions if your system supports 64-bit R.