Installation Instructions for R and RStudio

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Overview

This document will give you instructions on how to install R and RStudio on your computer for both Windows and MacOS devices.

Steps to Download R and RStudio

1) Go to https://posit.co/download/rstudio-desktop/ and scroll down to view the links to download R and RStudio (these are downloaded separately) (fig. 1).

1: Install R

RStudio requires R 3.6.0+. Choose a version of R that matches your computer's operating system.

R is not a Posit product. By clicking on the link below to download and install R, you are leaving the Posit website. Posit disclaims any obligations and all liability with respect to R and the R website.

2: Install RStudio

DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS

Size: 265.28 MB | <u>SHA-256: BB369743</u> | Version: 2024.12.1+563 | Released: 2025-02-13

DOWNLOAD AND INSTALL R

Figure 1: Options to download R and RStudio on the Posit webpage.

Installing R on Windows

- 1) Click the "DOWNLOAD AND INSTALL R" button below "1: Install R" on the posit website.
- 2) Click "Download R for Windows" on the CRAN page (fig. 2).
- 3) Click "base".
- 4) Click "Download R-X.X.X for Windows" (the 'X' will be a version number).
- 5) Allow the "R-X.X.X-win.exe" file to install and open the file.
- 6) Follow the install instructions and allow all recommended settings.

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- <u>Download R for Linux (Debian, Fedora/Redhat, Ubuntu)</u>
- Download R for macOS
- Download R for Windows

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Figure 2: CRAN page showing options to download R. The R version for Windows is the third option down.

Installing R on MacOS

- 1) Click "Download R for macOS" (fig. 3).
- 2) Select the appropriate version to install on your Mac based on the type (Silicon chip or Intel chip) (fig. 4). You can check what chip type you have by clicking the apple icon in the top left corner of your screen and selecting "About this Mac". The chip type will be listed in the popup window.
- 3) Allow the ".pkg" file to install and open the file.
- 4) Follow the install instructions and allow all recommended settings.

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, Windows and Mac users most likely want one of these versions of R:

- Download R for Linux (Debian, Fedora/Redhat, Ubuntu)
- · Download R for macOS
- Download R for Windows

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Figure 3: CRAN page showing options to download R. The R version for macOS is the second option down.

Latest release:

For Apple silicon (M1,2,..) Macs: R-4.4.3-arm64.pkg SHA1-hash: c32bed57870a7ddd31a8c5598a5a60f8b6c89073 (ca. 97MB, notarized and signed)

 $\label{eq:Formula} For older Intel Macs: $$\frac{R-4.4.3-x86_64.pkg}{SHA1-hash: 2391e3c97b3c97bd3c001a3a3eb314a6e6efc819}$$ (ca. 100MB, notarized and signed)$

R 4.4.3 binary for macOS 11 (Big Sur) and higher, signed and notarized packages.

Contains R 4.4.3 framework, R.app GUI 1.81, Tcl/Tk 8.6.12 X11 libraries and Texinfo 6.8. The latter two components are optional and can be ommitted when choosing "custom install", they are only needed if you want to use the tcltk R package or build package documentation from sources.

macOS Ventura users: there is a known bug in Ventura preventing installations from some locations without a prompt. If the installation fails, move the downloaded file away from the *Downloads* folder (e.g., to your home or Desktop).

Note: the use of X11 (including tcltk) requires $\underline{\text{XQuartz}}$ (version 2.8.5 or later). Always re-install XQuartz when upgrading your macOS to a new major version.

This release uses Xcode 14.2/14.3 and GNU Fortran 12.2. If you wish to compile R packages which contain Fortran code, you may need to download the corresponding GNU Fortran compiler from https://mac.R-project.org/tools. Any external libraries and tools are expected to live in /opt/R/arm64 (Apple silicon) or /opt/R/x86_64 (Intel).

Figure 4: R versions available for Mac computers based on chip type.