



STATISTICS AND METHODS

SAM LAB

ARIZONA STATE UNIVERSITY

Instruction of Downloading and Installing R and RStudio

Downloading and Installing R

1. Copy this link and enter in the Google search: <https://cran.r-project.org/mirrors.html>

CRAN Mirrors

The Comprehensive R Archive Network is available at the following URLs, please choose a location close to you. Some statistics on the status of the mirrors can be found here: [main page](#), [windows release](#), [windows old release](#).

If you want to host a new mirror at your institution, please have a look at the [CRAN Mirror HOWTO](#).

0-Cloud	https://cloud.r-project.org/	Automatic redirection to servers worldwide, currently sponsored by Rstudio
Argentina	http://mirror.fcaglp.unlp.edu.ar/CRAN/	Universidad Nacional de La Plata
Australia	https://cran.csiro.au/ https://mirror.aarnet.edu.au/pub/CRAN/ https://cran.ms.unimelb.edu.au/ https://cran.curtin.edu.au/	CSIRO AARNET School of Mathematics and Statistics, University of Melbourne Curtin University
Austria	https://cran.wu.ac.at/	Wirtschaftsuniversität Wien
Belgium	https://www.freeststatistics.org/cran/ https://ftp.belnet.be/mirror/CRAN/	Patrick Wessa Belnet, the Belgian research and education network
Brazil	https://cran-r.c3sl.ufpr.br/ https://vps.fmvz.usp.br/CRAN/ https://brieger.esalq.usp.br/CRAN/	Universidade Federal do Parana University of Sao Paulo, Sao Paulo University of Sao Paulo, Piracicaba
Bulgaria	https://ftp.uni-sofia.bg/CRAN/	Sofia University
Canada	https://mirror.rcg.sfu.ca/mirror/CRAN/ https://muug.ca/mirror/cran/ https://mirror.csclub.uwaterloo.ca/CRAN/	Simon Fraser University, Burnaby Manitoba Unix User Group University of Waterloo
Chile	https://cran.dcc.uchile.cl/	Departamento de Ciencias de la Computación, Universidad de Chile

2. Select a Comprehensive R Archive Network (CRAN) mirror

- Recommended: 0-Cloud or <https://cloud.r-project.org/>



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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.

Source Code for all Platforms


Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2023-06-16, Beagle Scouts) [R-4.3.1.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

3. Select operating system (Mac or Windows)



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R for macOS

This directory contains binaries for the base distribution and of R and packages to run on macOS. R and package binaries for R versions older than 4.0.0 are only available from the [CRAN archive](https://cran-archival.r-project.org) so users of such versions should adjust the CRAN mirror setting (<https://cran-archival.r-project.org>) accordingly.

Note: Although we take precautions when assembling binaries, please use the normal precautions with downloaded executables.

R 4.3.1 "Beagle Scouts" released on 2023/06/16

Please check the integrity of the downloaded package by checking the signature:
`pkgutil --check-signature R-4.3.1.pkg`
 in the *Terminal* application. If Apple tools are not available you can check the SHA1 checksum of the downloaded image:
`openssl sha1 R-4.3.1.pkg`

Latest release:

<p>For Apple silicon (M1/M2) Macs: R-4.3.1-arm64.pkg <small>SHA1- hash: 14c018f547f25837c1d09633207343883e9345 (ca. 90MB, notarized and signed)</small></p> <p>For older Intel Macs: R-4.3.1-x86_64.pkg <small>SHA1- hash: 1af80f55a60145d5dfefdb3956ecc8745c2401 (ca. 92MB, notarized and signed)</small></p>	<p>R 4.3.1 binary for macOS 11 (Big Sur) and higher, signed and notarized packages.</p> <p>Contains R 4.3.1 framework, R.app GUI 1.79, Tcl/Tk 8.6.12 X11 libraries and Texinfo 6.8. The latter two components are optional and can be omitted when choosing "custom install", they are only needed if you want to use the <code>tcltk</code> R package or build package documentation from sources.</p> <p>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 <i>Downloads</i> folder (e.g., to your home or Desktop)</p> <p>Note: the use of X11 (including <code>tcltk</code>) requires XQuartz (version 2.8.5 or later). Always re-install XQuartz when upgrading your macOS to a new major version.</p> <p>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 <code>/opt/R/arm64</code> (Apple silicon) or <code>/opt/R/x86_64</code> (Intel).</p>
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[NEWS](#) (for Mac GUI) News features and changes in the R.app Mac GUI

4. Click on R-4.3.1 pkg (for Mac) or R 4.3.1 for Windows (for Windows) to download

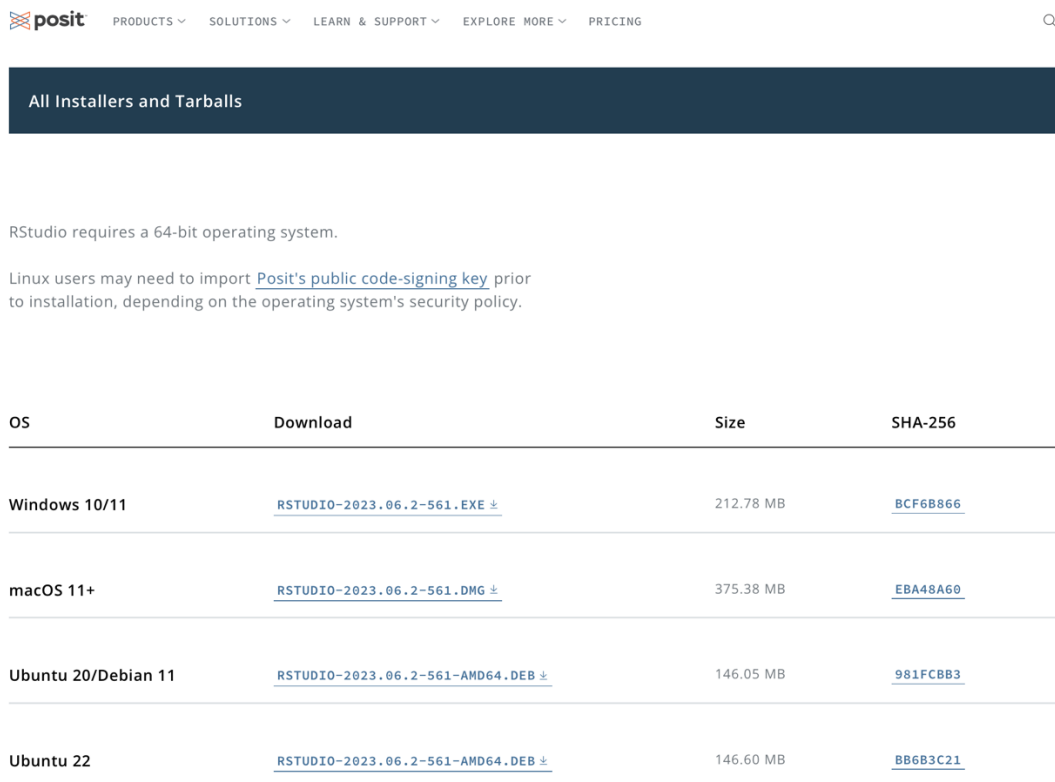
- For Mac, click on Download R for macOS
- For Windows, click on Download R for Windows, then click on base

5. After file downloads, locate and run the executable

- Will look something like this: R-4.3.1.pkg or R-4.3.1-win.exe
- Follow the prompts to complete installation (defaults recommended)

Downloading and Installing RStudio

1. Copy this link and enter in the Google search:
<https://rstudio.com/products/rstudio/download/>
2. Scroll down to the bottom of the page and under All Installers, click on the download link for your operating system (OS)
 - For Mac, click on RSTUDIO-2023.06.2-561.DMG
 - For Windows, click on RSTUDIO-2023.06.2-561.EXE



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All Installers and Tarballs

RStudio requires a 64-bit operating system.

Linux users may need to import Posit's [public code-signing key](#) prior to installation, depending on the operating system's security policy.

OS	Download	Size	SHA-256
Windows 10/11	RSTUDIO-2023.06.2-561.EXE ↓	212.78 MB	BCF6B866
macOS 11+	RSTUDIO-2023.06.2-561.DMG ↓	375.38 MB	EBA48A60
Ubuntu 20/Debian 11	RSTUDIO-2023.06.2-561-AMD64.DEB ↓	146.05 MB	981FCBB3
Ubuntu 22	RSTUDIO-2023.06.2-561-AMD64.DEB ↓	146.60 MB	BB6B3C21

3. After file downloads, locate and run the executable
 - Will look something like this: RStudio-2023.06.2-561.dmg or RStudio-2023.06.2-561.exe
 - Follow the prompts to complete installation (defaults recommended)