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

2. Select a Comprehensive R Archive Network (CRAN) mirror
   - Recommended: 0-Cloud or https://cloud.r-project.org/

3. Select operating system (Mac or Windows)

```
                                          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 so users of such versions should adjust the CRAN mirror setting (https://cran-archive.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 avaiable you can check the SHA1 checksum of the downloaded image:
openssl sha1 R-4.3.1.pkg

```
                         Latest release:
```

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Packages
Task Views
Other

Documentation
Manuals
FAQs
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For Apple silicon (M1/M2) Macs: R-4.3.1-arm64.pkg
SHA1-
hash: 14c018ff54f7f5bb37c1d96b33207343b83e9345
(ca. 90MB, notarized and signed)

For older Intel Macs: R-4.3.1-x86_64.pkg
SHA1-
hash: 1af8f055a601d5de5dfefdb3956ecc8f745c2401
(ca. 92MB, notarized and signed)

R 4.3.1 binary for macOS 11 (**Big Sur**) and higher, signed and notarized packages.

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 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 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).

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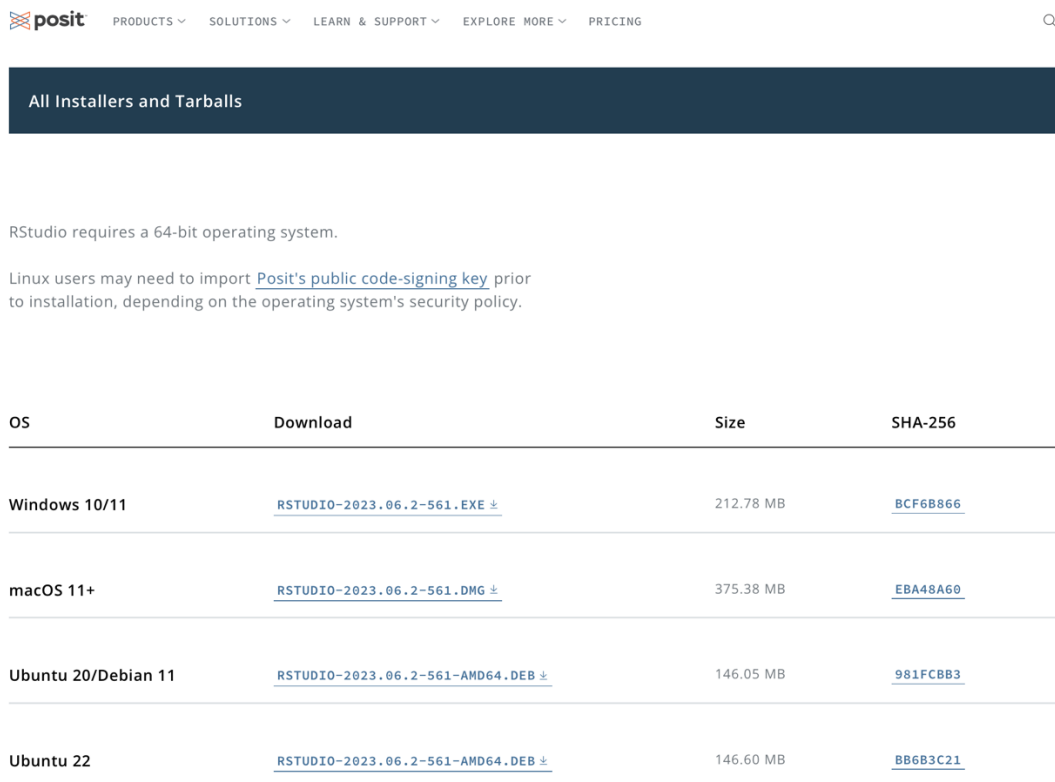   - For Mac, click on Download R for macOS
   - For Windows, click on Download R for Windows, then click on base

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)