

# Getting R, RStudio, and the tidyverse for macOS (Only free versions of the software are needed!)

## Download and Install R:

1. Go to the R macOS download website: <https://cran.r-project.org/bin/macosx/>
2. Select "R 4.2.1.pkg" (or the current version of R available).

R for macOS

This directory contains binaries for a base distribution and packages to run on macOS. Releases for old Mac OS X systems (through Mac OS X 10.5) and PowerPC Macs can be found in the [old](#) directory.

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

Package binaries for R versions older than 2.0 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.

R 4.2.1 "Funny-Looking Kid" released on 2022/06/23

Please check the integrity of the downloaded package by checking the signature:  
pkgutil --check-signature R-4.2.1.pkg  
in the *Terminal* application. If Apple tools are not available you can check the SHA1 checksum of the downloaded image:  
openssl sha1 -R-4.2.1.pkg

**R-4.2.1.pkg** (notarized and signed)  
SHA1 hash: f1a6e6e4d8f3f2218f40d131a270f7a2a  
(ca. 90MB) for Intel Macs

**R-4.2.1-arm64.pkg** (notarized and signed)  
SHA1 hash: 0375a80f02d4d8f3f2218f40d131a270f7a2a  
(ca. 80MB) for M1 Macs only

Latest release:

**R 4.2.1** binary for macOS 10.13 (High Sierra) and higher, **Intel 64-bit** build, signed and notarized package.  
Contains R 4.2.1 framework, Rapp GUI 1.79 in 64-bit for Intel Macs, Tcl/Tk 8.6.6 X11 libraries and Texinfo 6.7. The latter two components are optional and can be omitted when choosing "custom install", they are only needed if you want to use the `tcltk` R package or build package documentation from sources.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) to be installed (version 2.7.11 or later) since it is no longer part of macOS. Always re-install XQuartz when upgrading your macOS to a new major version.

This release supports Intel Macs, but it is also known to work using Rosetta2 on M1-based Macs. For native Apple silicon arm64 binary see below.

**Important:** this release uses Xcode 12.4 and GNU Fortran 8.2. If you wish to compile R packages from sources, you may need to download GNU Fortran 8.2 - see the [tools](#) directory.

**R 4.2.1** binary for macOS 11 (Big Sur) and higher, **Apple silicon arm64** build, signed and notarized package.  
Contains R 4.2.1 framework, Rapp GUI 1.79 for Apple silicon Macs (M1 and higher), Tcl/Tk 8.6.12 X11 libraries and Texinfo 6.8.

**Important:** this version does NOT work on older Intel-based Macs.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) (version 2.8.1 or later). Always re-install XQuartz when upgrading your macOS to a new major version.

This release uses Xcode 13.1 and experimental GNU Fortran 12 arm64 fork. If you wish to compile R packages which contain Fortran code, you may need to download GNU Fortran for arm64 from <https://mac.r-project.org/tools>. Any external libraries and tools are expected to live in `/opt/R/arm64` to not conflict with Intel-based software and this build will not use `/usr/local` to avoid such conflicts (see the [tools](#) page for more details).

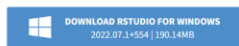
3. Save, locate, and install R from this file.

## Download and Install RStudio:

1. Go to the RStudio download website:  
<https://www.rstudio.com/products/rstudio/download/#download>
2. Select the macOS 10.15+ installation file for RStudio Desktop: RStudio-2022.07.1-544.dmg (or the currently available version of RStudio).

RStudio Desktop 2022.07.1+554 - [Release Notes](#)

1. Install R. RStudio requires R 3.3.0+.
2. Download RStudio Desktop. Recommended for your system:



Requires Windows 10/11 (64-bit)



### All Installers

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

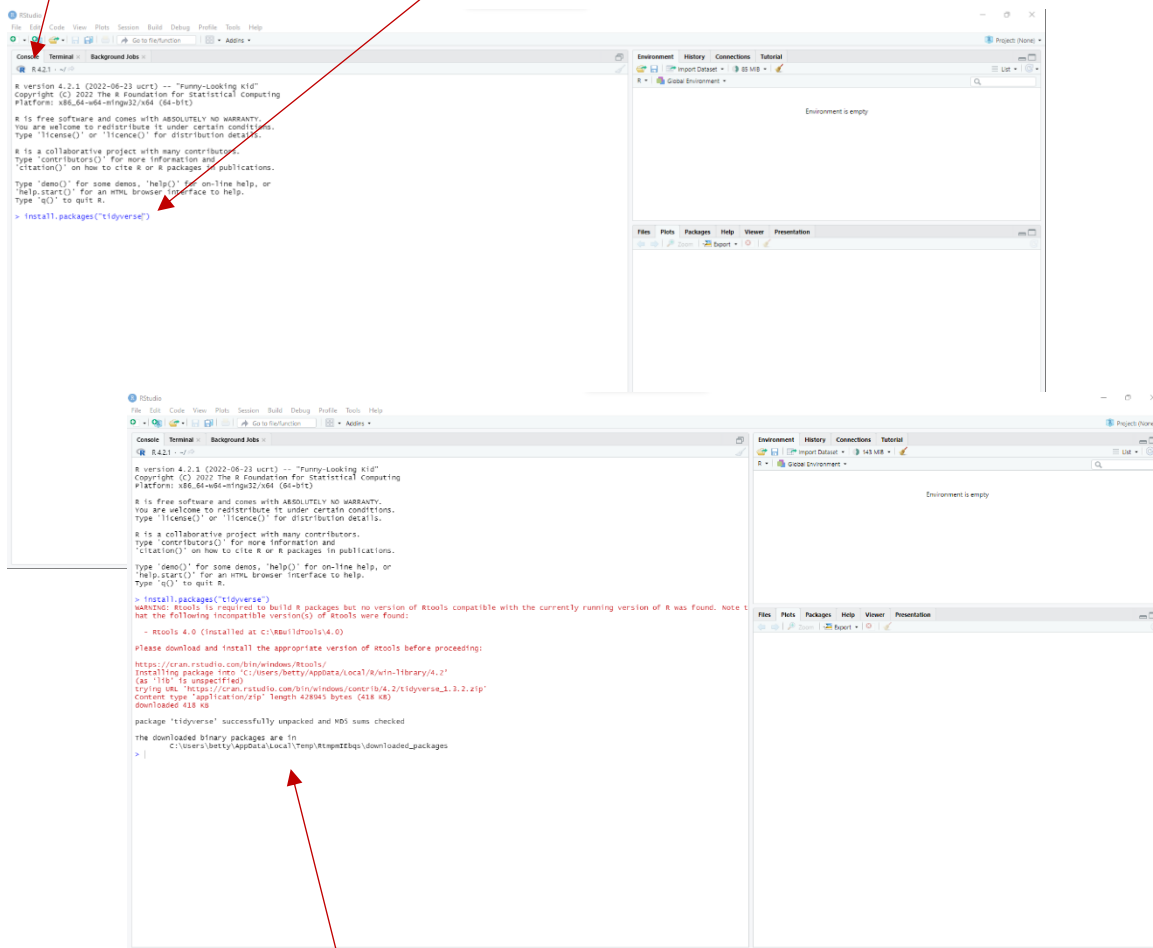
RStudio requires a 64-bit operating system. If you are on a 32 bit system, you can use an [older version](#) of RStudio.

OS	Download	Size	SHA-256
Windows 10/11	<a href="#">RStudio-2022.07.1-554.exe</a>	190.14 MB	5ab6215b
macOS 10.15+	<a href="#">RStudio-2022.07.1-554.dmg</a>	221.04 MB	7b1a2285
Ubuntu 18+/Debian 10+	<a href="#">rstudio-2022.07.1-554-arm64.deb</a>	132.91 MB	7409e751
Ubuntu 22	<a href="#">rstudio-2022.07.1-554-arm64.deb</a>	145.33 MB	92f2ab75

3. Save, locate, and install RStudio from this file.

## Open RStudio and Install the Tidyverse package:

1. Find the RStudio app and click to start an RStudio session.
2. In the RStudio session that opens (which may appear differently on your computer), look for the “Console” window.
3. At the prompt `>` type,  
`install.packages("tidyverse")`  
 then press enter to run the command.



4. Several automatic install messages *may* be displayed during the tidyverse package installation. RStudio should indicate installation of the package was successful.

You are now ready to use RStudio!