

DOWNLOADING R AND RSTUDIO

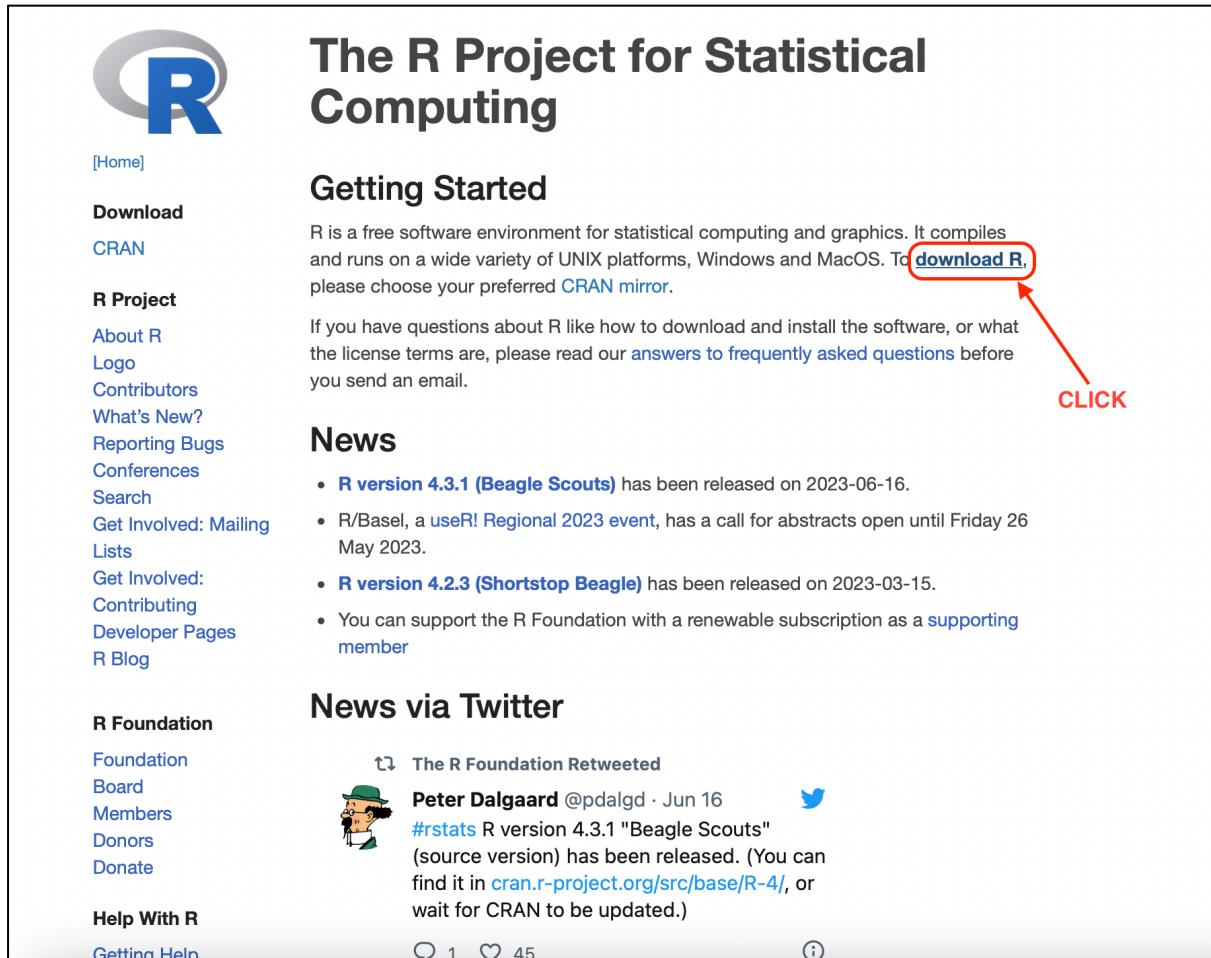
Before starting this course, we recommend downloading both R and RStudio. See instructions below.

1. Downloading R

Visit this website <https://www.r-project.org/> and download the latest version of R suitable for your computer.

STEP BY STEP:

STEP 1



The screenshot shows the homepage of The R Project for Statistical Computing. The page is titled "The R Project for Statistical Computing" and features a navigation menu on the left. The main content area is titled "Getting Started" and contains a paragraph of text with a link to "download R". A red arrow points to this link with the word "CLICK" written next to it. Below the "Getting Started" section is a "News" section with three bullet points. At the bottom of the page is a "News via Twitter" section featuring a tweet from Peter Dalgaard about the release of R version 4.3.1.

The R Project for Statistical Computing

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Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To [download R](#), please choose your preferred [CRAN mirror](#).


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.

News

- **R version 4.3.1 (Beagle Scouts)** has been released on 2023-06-16.
- R/Basel, a [useR! Regional 2023 event](#), has a call for abstracts open until Friday 26 May 2023.
- **R version 4.2.3 (Shortstop Beagle)** has been released on 2023-03-15.
- You can support the R Foundation with a renewable subscription as a [supporting member](#)

News via Twitter

The R Foundation Retweeted

 **Peter Dalgaard** @pdalgd · Jun 16

[#rstats](#) R version 4.3.1 "Beagle Scouts" (source version) has been released. (You can find it in cran.r-project.org/src/base/R-4/, or wait for CRAN to be updated.)

1 45

STEP 2

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/>

CLICK

Universidad Nacional de La Plata

Australia

<https://cran.csiro.au/>

CSIRO

<https://mirror.aarnet.edu.au/pub/CRAN/>

AARNET

<https://cran.ms.unimelb.edu.au/>

School of Mathematics and Statistics, University of Melbourne

<https://cran.curtin.edu.au/>

Curtin University

Austria

<https://cran.wu.ac.at/>

Wirtschaftsuniversität Wien

Belgium

<https://www.freeststatistics.org/cran/>

Patrick Wessa

<https://ftp.belnet.be/mirror/CRAN/>

Belnet, the Belgian research and education network

Brazil

<https://cran-r-c3sl.ufpr.br/>

Universidade Federal do Parana

<https://vps.fmvz.usp.br/CRAN/>

University of Sao Paulo, Sao Paulo

<https://brieger.esalq.usp.br/CRAN/>

University of Sao Paulo, Piracicaba

Bulgaria

<https://ftp.uni-sofia.bg/CRAN/>

Sofia University

Canada

STEP 3

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](#)

CLICK THE OPTION
THAT MATCHES
YOUR OPERATING
SYSTEM

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!

STEP 4

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 available you can check the SHA1 checksum of the downloaded image:

```
openssl sha1 R-4.3.1.pkg
```

Latest release:

For Apple silicon (M1/M2) Macs: **R 4.3.1** binary for macOS 11 (**Big Sur**) and higher, signed and notarized packages.

[R-4.3.1-arm64.pkg](#)

SHA1-

hash: 14c018ff547f5bb37c1d96b33207343b83e9345
(ca. 90MB, notarized and signed)

Contains R 4.3.1 framework, R.app GUI 1.79, Tcl/Tk 8.6.12 X11 libraries and re optional and can be omitted when needed if you want to use the `tcltk` R from sources.

CLICK THE LATEST LINK TO
DOWNLOAD (IF YOU HAVE AN
OLDER MACHINE, SCROLL DOWN
FOR OLDER LINKS)

For older Intel Macs:

[R-4.3.1-x86_64.pkg](#)

SHA1-

hash: 1af8055a601d5de5dfefdb3956ecc8f745c2401
(ca. 92MB, notarized and signed)

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

2. Downloading RStudio

Visit this website <https://rstudio.com/products/rstudio/download/> and download the latest free Desktop version of RStudio suitable for your computer.

STEP BY STEP:

STEP 1

The screenshot shows the RStudio website's download page. At the top, there is a dark green header with the text "Grow your data science skills at posit::conf(2023) | September 17th-20th in Chicago" and a "LEARN MORE" button. Below the header is a navigation bar with the "posit" logo and menu items: "PRODUCTS", "SOLUTIONS", "LEARN & SUPPORT", "EXPLORE MORE", and "PRICING". The main content area is divided into two columns. The left column is titled "1: Install R" and contains the text "RStudio requires R 3.3.0+. Choose a version of R that matches your computer's operating system." and a blue button labeled "DOWNLOAD AND INSTALL R". The right column is titled "2: Install RStudio" and features a blue button labeled "DOWNLOAD RSTUDIO DESKTOP FOR MACOS 11+". Below this button, it states "This version of RStudio is only supported on macOS 11 and higher. For earlier macOS environments, please [download a previous version.](#)". Red annotations with arrows point to the "DOWNLOAD RSTUDIO DESKTOP FOR MACOS 11+" button, the "download a previous version." link, and the "DOWNLOAD AND INSTALL R" button. A red text box at the top right says "SCROLL DOWN AND CLICK ON BLUE BUTTON (IF YOU ARE A WINDOWS USER, YOU SHOULD SEE 'DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS')." and another red text box at the bottom left says "IF YOU HAVE AN OLDER COMPUTER, CLICK THIS INSTEAD".

1: Install R

RStudio requires R 3.3.0+. Choose a version of R that matches your computer's operating system.

DOWNLOAD AND INSTALL R

2: Install RStudio

DOWNLOAD RSTUDIO DESKTOP FOR MACOS 11+

This version of RStudio is only supported on macOS 11 and higher. For earlier macOS environments, please [download a previous version.](#)

SCROLL DOWN AND CLICK ON BLUE BUTTON (IF YOU ARE A WINDOWS USER, YOU SHOULD SEE "DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS").

IF YOU HAVE AN OLDER COMPUTER, CLICK THIS INSTEAD

STEP 2

The screenshot shows a macOS system dialog box with a white background and a black border. The text inside reads: "Do you want to allow downloads on 'posit.co'?" followed by "You can change which websites can download files in Websites Preferences." At the bottom right, there are two buttons: "Cancel" and "Allow". A red arrow points to the "Allow" button, with the word "CLICK" written in red above it. The "Allow" button is highlighted with a red rounded rectangle.

Do you want to allow downloads on "posit.co"?

You can change which websites can download files in Websites Preferences.

Cancel Allow

CLICK