

# R Installation Guide

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## 1 Installation

### 1.1 Installing R

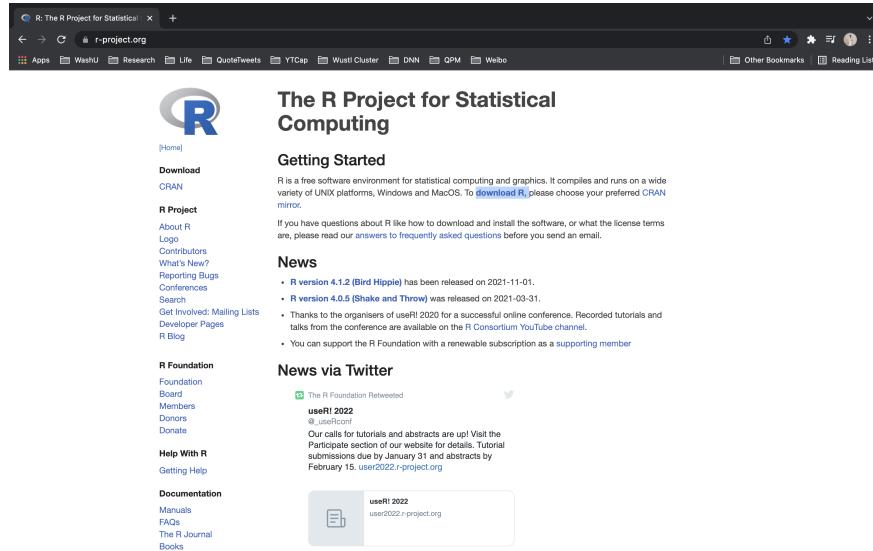


Figure 1: The R Project for Statistical Computing

Just follow the standard installation instructions and you should be good! If you are on a Linux computer, you are probably already super familiar with what you need to do here.

### 1.2 Installing RStudio (IDE)

- R Studio makes using R a lot easier!
- They are now under the bigger association POSIT

R offers a help() function that you can use when you encounter unfamiliar operators, functions, packages, etc. You can also use the shortcut "?" symbol to do the same.

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](#).

<b>0-Cloud</b> <a href="https://cloud.r-project.org/">https://cloud.r-project.org/</a>	<a href="#">Click Here</a>	Automatic redirection to servers worldwide, currently sponsored by Rstudio
Algeria <a href="https://cran.usthb.dz/">https://cran.usthb.dz/</a>		University of Science and Technology Houari Boumediene
Argentina <a href="http://mirror.fcaglp.unlp.edu.ar/CRAN/">http://mirror.fcaglp.unlp.edu.ar/CRAN/</a>		Universidad Nacional de La Plata
Australia <a href="https://cran.csiro.au/">https://cran.csiro.au/</a> <a href="https://mirror.aarnet.edu.au/pub/CRAN/">https://mirror.aarnet.edu.au/pub/CRAN/</a> <a href="https://cran.ms.unimelb.edu.au/">https://cran.ms.unimelb.edu.au/</a> <a href="https://cran.curtin.edu.au/">https://cran.curtin.edu.au/</a>		CSIRO AARNET School of Mathematics and Statistics, University of Melbourne Curtin University
Austria <a href="https://cran.wu.ac.at/">https://cran.wu.ac.at/</a>		Wirtschaftsuniversität Wien
Belgium <a href="https://www.freestatistics.org/cran/">https://www.freestatistics.org/cran/</a> <a href="https://ftp.belnet.be/mirror/CRAN/">https://ftp.belnet.be/mirror/CRAN/</a>		Patrick Wessa Belnet, the Belgian research and education network
Brazil <a href="https://cran.r.c3sl.ufpr.br/">https://cran.r.c3sl.ufpr.br/</a> <a href="https://cran.fioruz.br/">https://cran.fioruz.br/</a> <a href="https://vps.fmvz.usp.br/CRAN/">https://vps.fmvz.usp.br/CRAN/</a> <a href="https://brieger.csalq.usp.br/CRAN/">https://brieger.csalq.usp.br/CRAN/</a>		Universidade Federal do Paraná Oswaldo Cruz Foundation, Rio de Janeiro University of São Paulo, São Paulo University of São Paulo, Piracicaba
Bulgaria <a href="https://ftp.uni-sofia.bg/CRAN/">https://ftp.uni-sofia.bg/CRAN/</a>		Sofia University

Figure 2: CRAN Mirrors

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](#)

**Choose the one for 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!

- The latest release (2021-11-01, Bird Hippie) [R-4.1.2.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!

**What are R and CRAN?**

R is 'GNU S', a freely available language and environment for statistical computing and graphics which provides a wide variety of statistical and graphical techniques: linear and nonlinear modelling, statistical tests, time series analysis, classification, clustering, etc. Please consult the [R project homepage](#) for further information.

CRAN is a network of ftp and web servers around the world that store identical, up-to-date, versions of code and documentation for R. Please use the CRAN [mirror](#) nearest to you to minimize network load.

**Submitting to CRAN**

Figure 3: Choose your OS

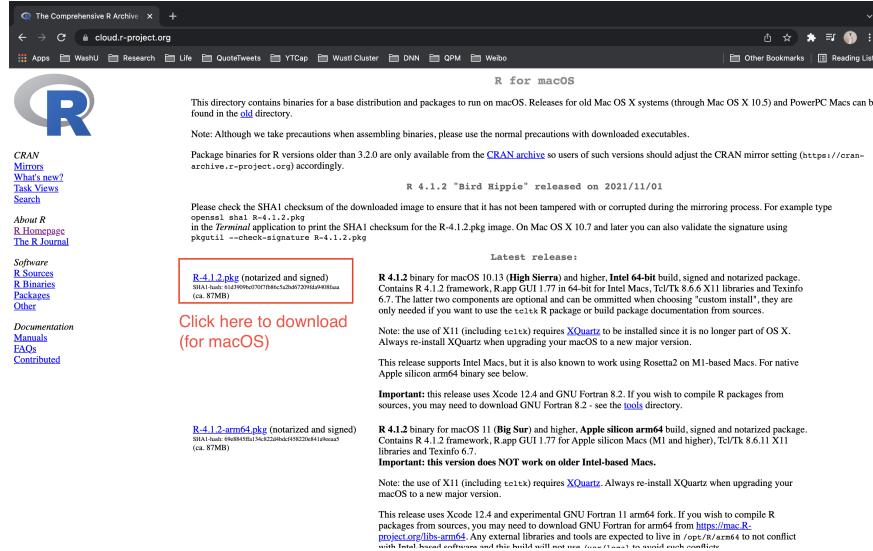


Figure 4: macOS download

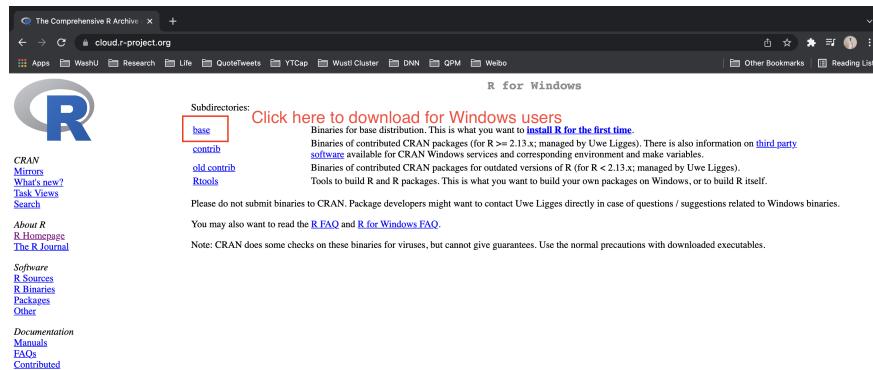


Figure 5: Windows download

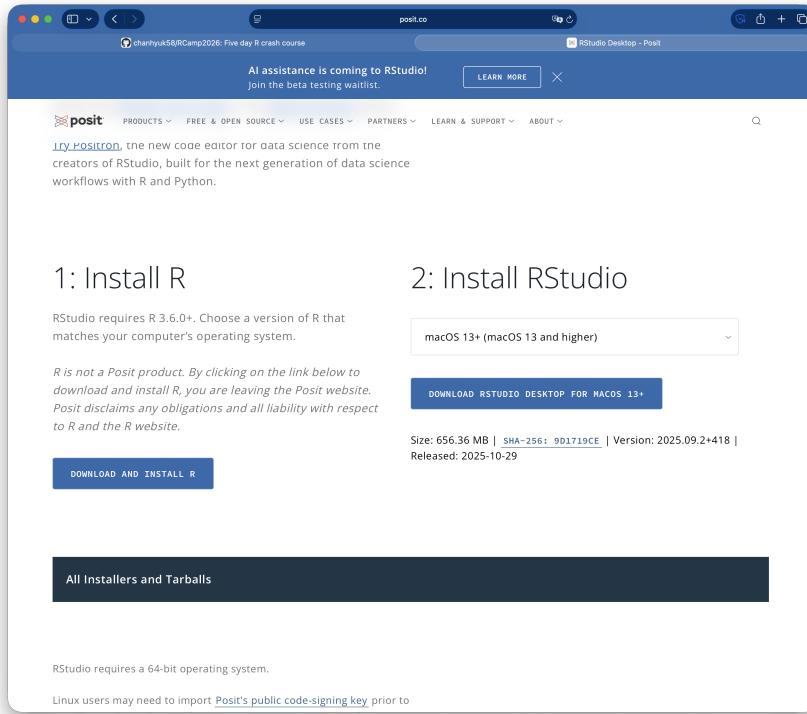


Figure 6: RStudio download page

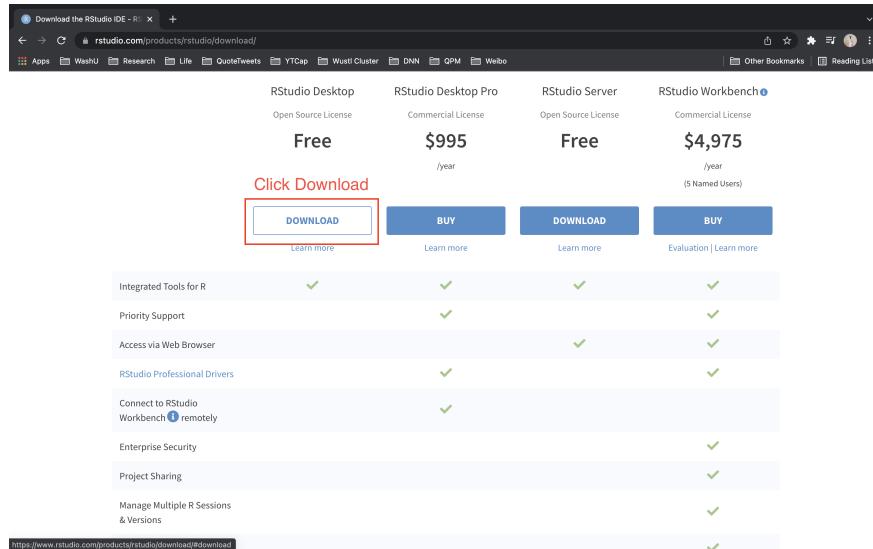


Figure 7: Download RStudio Desktop (free version)

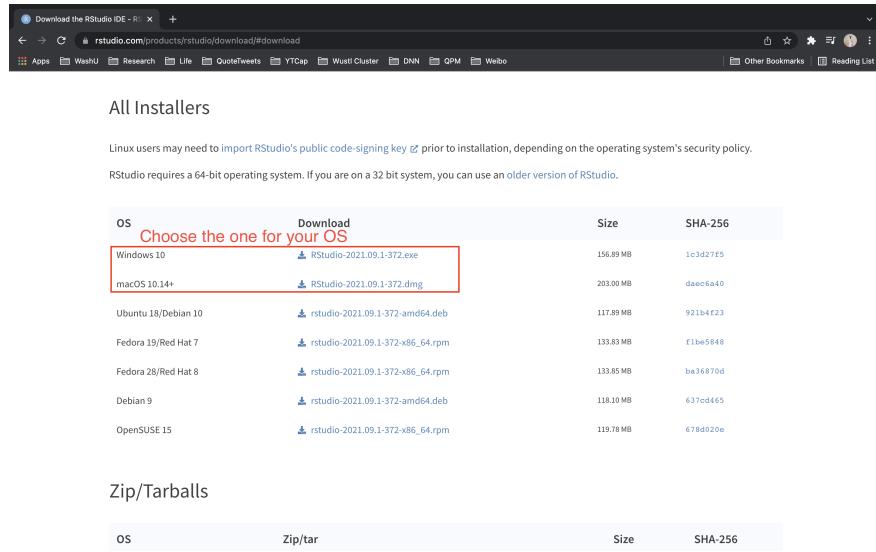


Figure 8: Choose the one for your OS

```
help("%*%") # special characters
?mean # alphanumeric
help("+")
```

### 1.3 In-class exercises:

1. Install the latest version of R on your computer. <https://www.r-project.org/>
2. Install RStudio. <https://www.rstudio.com/products/rstudio/download/>
3. Create your first R script, and name it *my\_script.r* .