

15.1.2

Install R

Now that he has a bit of background on R and RStudio, Jeremy is ready to get downloading. First he'll download R itself and then move on to RStudio.

We must first install R before installing RStudio. This way, RStudio can easily find our R installation while being configured; otherwise, we would have to manually tell RStudio where to find our installed applications.

To install R on macOS or Windows, navigate to [R's Comprehensive R Archive Network \(CRAN\) server](https://cran.r-project.org/mirrors.html) (<https://cran.r-project.org/mirrors.html>) and select a mirror link near our region. In most cases, any U.S. mirror link will do (see the following images):

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
Algeria	https://cran.usthb.dz/	University of Science and Technology Houari Boumediene
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 of Technology
Austria	https://cran.wu.ac.at/	Wirtschaftsuniversität Wien
Belgium	https://www.freeststatistics.org/cran/ https://lib.ugent.be/CRAN/	Patrick Wessa Ghent University Library
Brazil	https://nbcgib.uesc.br/mirrors/cran/ https://cran-r-c3sl.ufpr.br/ https://cran.fiocruz.br/ https://vps.fmvz.usp.br/CRAN/ https://brieger.esalq.usp.br/CRAN/	Computational Biology Center at Universidade Estadual de Santa Cruz Universidade Federal do Parana Oswaldo Cruz Foundation, Rio de Janeiro University of Sao Paulo, Sao Paulo University of Sao Paulo, Piracicaba
Bulgaria	https://ftp.uni-sofia.bg/CRAN/	Sofia University
Canada	https://mirror.its.sfu.ca/mirror/CRAN/ https://muug.ca/mirror/cran/ https://mirror.its.dal.ca/cran/ http://cran.utstat.utoronto.ca/	Simon Fraser University, Burnaby Manitoba Unix User Group Dalhousie University, Halifax University of Toronto
Chile	https://cran.dcc.uchile.cl/ https://cran.dmc.ufro.cl/	Departamento de Ciencias de la Computación, Universidad de Chile Departamento de Matemática y Estadística, Universidad de La Frontera
China	https://mirrors.tuna.tsinghua.edu.cn/CRAN/ https://mirrors.ustc.edu.cn/CRAN/	TUNA Team, Tsinghua University University of Science and Technology of China

South Africa	http://r.adu.org.za/ http://cran.mirror.ac.za/	University of Cape Town TENET, Johannesburg
Spain	https://cran.rediris.es/	Spanish National Research Network, Madrid
Sweden	https://ftp.acc.umu.se/mirror/CRAN/	Academic Computer Club, Umeå University
Switzerland	https://stat.ethz.ch/CRAN/	ETH Zürich
Taiwan	https://ftp.yzu.edu.tw/CRAN/ http://cran.csie.ntu.edu.tw/	Department of Computer Science and Engineering, Yuan Ze University National Taiwan University, Taipei
Thailand	http://mirrors.psu.ac.th/pub/cran/	Prince of Songkla University, Hatyai
Turkey	https://cran.pau.edu.tr/ https://cran.ncc.metu.edu.tr/	Pamukkale University, Denizli Middle East Technical University Northern Cyprus Campus, Mersin
UK	https://www.stats.bris.ac.uk/R/ https://cran.ma.imperial.ac.uk/	University of Bristol Imperial College London
USA	https://cran.cnr.berkeley.edu/ https://mirror.las.iastate.edu/CRAN/ https://ftp.usgs.iu.edu/CRAN/ https://rweb.crmdata.ku.edu/cran/ https://cran.mtu.edu/ https://repo.miserver.it.umich.edu/cran/ http://cran.wustl.edu/ http://archive.linux.duke.edu/cran/ https://cran.case.edu/ https://ftp.osuosl.org/pub/cran/ http://lib.stat.cmu.edu/R/CRAN/ http://cran.mirrors.hoobly.com/ https://mirrors.nics.utk.edu/cran/ https://cran.revolutionanalytics.com/	University of California, Berkeley, CA Iowa State University, Ames, IA Indiana University University of Kansas, Lawrence, KS Michigan Technological University, Houghton, MI MBNI, University of Michigan, Ann Arbor, MI Washington University, St. Louis, MO Duke University, Durham, NC Case Western Reserve University, Cleveland, OH Oregon State University Statlib, Carnegie Mellon University, Pittsburgh, PA Hoobly Classifieds, Pittsburgh, PA National Institute for Computational Sciences, Oak Ridge, TN Revolution Analytics, Dallas, TX
Uruguay	https://espejito.fder.edu.uy/cran/	Facultad de Derecho, Universidad de la República

After you navigate to a CRAN mirror site, you'll reach a self-explanatory download page. Follow the appropriate download link for either your macOS or Windows environment:

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](#)
- [Download R for \(Mac\) OS X](#)
- [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 (2019-07-05, Action of the Toes) [R-3.6.1 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.

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

To "submit" a package to CRAN, check that your submission meets the [CRAN Repository Policy](#) and then use the [web form](#).


If this fails, upload to <ftp://CRAN.R-project.org/incoming/> and send an email to CRAN-submissions@R-project.org following the policy. Please do not attach submissions to emails, because this will clutter up the mailboxes of half a dozen people.

Note that we generally do not accept submissions of precompiled binaries due to security reasons. All binary distribution listed above are compiled by selected maintainers, who are in charge for all binaries of their platform, respectively.

For queries about this web site, please contact [the webmaster](#).

This server is hosted by [The College of Natural Resources](#) at [University of California, Berkeley](#)

For those running a macOS environment, select the latest release **.pkg** file (the link is midpage):



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[Contributed](#)

R for Mac OS X

This directory contains binaries for a base distribution and packages to run on Mac OS X (release 10.6 and above). Mac OS 8.6 to 9.2 (and Mac OS X 10.1) are no longer supported but you can find the last supported release of R for these systems (which is R 1.7.1) [here](#). Releases for old Mac OS X systems (through Mac OS X 10.5) and PowerPC Macs can be found in the [old](#) directory.

Note: CRAN does not have Mac OS X systems and cannot check these binaries for viruses. Although we take precautions when assembling binaries, please use the normal precautions with downloaded executables.

As of 2016/03/01 package binaries for R versions older than 2.12.0 are only available from the [CRAN archive](#) so users of such versions should adjust the CRAN mirror setting accordingly.

R 3.6.2 "Dark and Stormy Night" released on 2019/12/12

Important: since R 3.4.0 release we are now providing binaries for OS X 10.11 (El Capitan) and higher using non-Apple toolkit to provide support for OpenMP and C++17 standard features. To compile packages you may have to download tools from the [tools](#) directory and read the corresponding note below.

Please check the MD5 checksum of the downloaded image to ensure that it has not been tampered with or corrupted during the mirroring process. For example type

```
md5 R-3.6.2.pkg
```

in the *Terminal* application to print the MD5 checksum for the R-3.6.2.pkg image. On Mac OS X 10.7 and later you can also validate the signature using

```
pkgutil --check-signature R-3.6.2.pkg
```

Latest release:

R 3.6.2 binary for OS X 10.11 (El Capitan) and higher, signed package. Contains R 3.6.2 framework, R.app GUI 1.70 in 64-bit for Intel Macs, Tcl/Tk 8.6.6 X11 libraries and Texinfo 5.2. 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.

R-3.6.2.pkg

MD5: 83741657...dfe3efe16b5a95d65ea0
SHA1:
hash: e07a717ab448932fa967472f5f41c28ea9d7506a
(ca. 77MB)

For those running a Windows environment, click on the base installer link. On the next page, click the "Download R for Windows" link to start downloading the installer:

R for Windows

Subdirectories:

- base**
- [contrib](#)
- [old.contrib](#)
- [Rtools](#)

Binaries for base distribution. This is what you want to [install R for the first time](#).

Binaries of contributed CRAN packages (for R >= 2.13.x; managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.

Binaries of contributed CRAN packages for outdated versions of R (for R < 2.13.x; managed by Uwe Ligges).

Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

Once your installer files are successfully downloaded (**.pkg** for macOS or **.exe** for Windows), run them just as you would for any other installation program. Use all default install options and, if prompted, check all boxes to allow all R components to install.

 [Retake](#)

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