

Rrrrrrr...

Getting Set up!

- To be ready for the course you will need to download software:

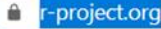
1) R (www.r-project.org)


2) R-studio (<https://rstudio.com/products/rstudio/download/>)

Installing R

Installing R

1: Go to the website (www.r-project.org)





[Home]

Download

[CRAN](#)

R Project

[About R](#)

[Logo](#)

[Contributors](#)

[What's New?](#)

[Reporting Bugs](#)

[Conferences](#)

[Search](#)

[Get Involved: Mailing Lists](#)

[Developer Pages](#)

[R Blog](#)

R Foundation

[Foundation](#)

The R Project for Statistical Computing

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](#).

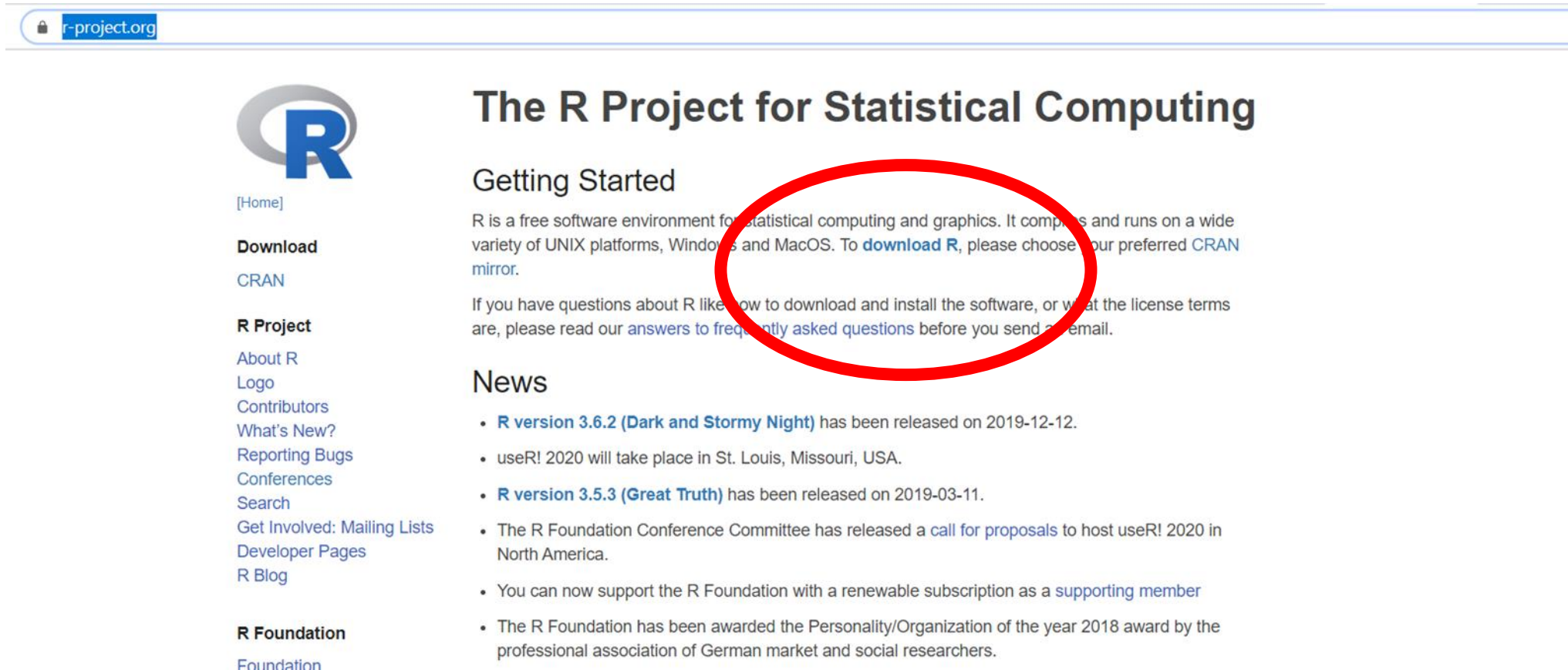
If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

News

- [R version 3.6.2 \(Dark and Stormy Night\)](#) has been released on 2019-12-12.
- useR! 2020 will take place in St. Louis, Missouri, USA.
- [R version 3.5.3 \(Great Truth\)](#) has been released on 2019-03-11.
- The R Foundation Conference Committee has released a [call for proposals](#) to host useR! 2020 in North America.
- You can now support the R Foundation with a renewable subscription as a [supporting member](#)
- The R Foundation has been awarded the Personality/Organization of the year 2018 award by the professional association of German market and social researchers.

Installing R

2: Click on the link to download R



The screenshot shows the homepage of the R Project for Statistical Computing. The browser's address bar displays 'r-project.org'. On the left, a sidebar contains the R logo and a list of links: [Home], Download, CRAN, R Project, About R, Logo, Contributors, What's New?, Reporting Bugs, Conferences, Search, Get Involved: Mailing Lists, Developer Pages, R Blog, R Foundation, and Foundation. The main content area features the title 'The R Project for Statistical Computing' and a section 'Getting Started'. The 'Getting Started' text states: '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.' The phrase 'download R' is circled in red. Below this, it says: '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.' A 'News' section follows, listing several updates: 'R version 3.6.2 (Dark and Stormy Night)' released on 2019-12-12, 'useR! 2020' in St. Louis, 'R version 3.5.3 (Great Truth)' released on 2019-03-11, a call for proposals for useR! 2020, and awards from 2018.

[r-project.org](#)

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Installing R

3: Select a local
CRAN mirror.
Choose and click on
any of the Canadian
links

← → ↻ cran.r-project.org/mirrors.html

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](#)

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

Installing R

4: Click to
download the R
version for your
computer

(...most likely
Windows)

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 the 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 source code must 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 (2019-12-12, Dark and Stormy Night) [R-3.6.2.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](#) corresponding feature requests or bug reports.

Installing R

5: Click here to install for the first time

R for Windows

Subdirectories:

[base](#)

Binaries for base distribution. This is what you want to **install R for the first time.**

[contrib](#)

Binaries of contributed CRAN packages (for R \geq 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.

[old contrib](#)

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

[Rtools](#)

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.

Installing R

6: Click here to download

R-3.6.2 for Windows (32/64 bit)

[Download R 3.6.2 for Windows](#) (8.1 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [md5sum](#) of the .exe to the [file](#) on the CRAN server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

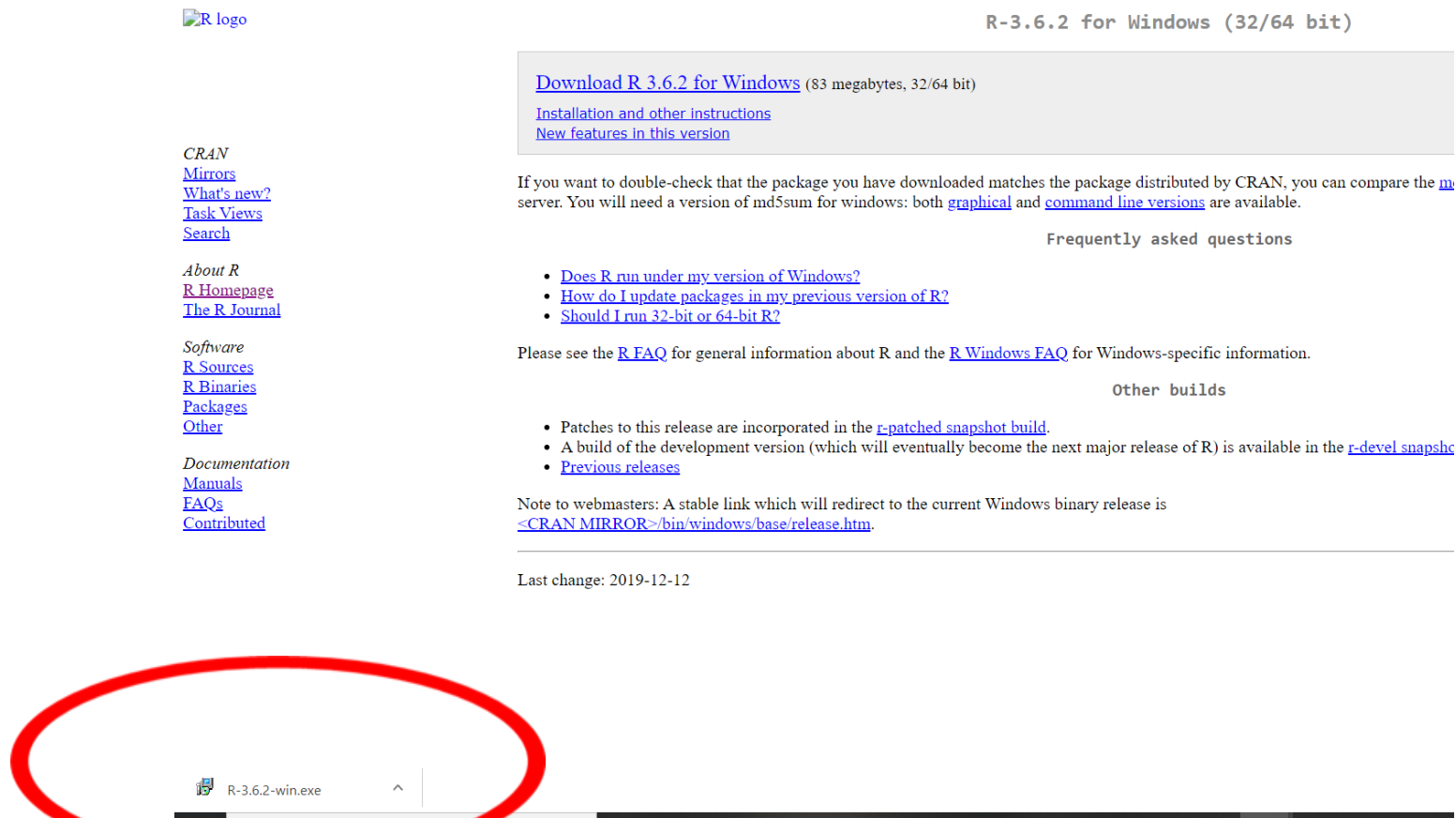
Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

Installing R

7: Look in your download folder (may be at the bottom of the page)

8: double click on the folder and follow the prompts



The screenshot shows the CRAN website for downloading R 3.6.2 for Windows. The page layout includes a sidebar on the left with links for CRAN, Mirrors, What's new?, Task Views, Search, About R, R Homepage, The R Journal, Software, R Sources, R Binaries, Packages, Other, Documentation, Manuals, FAQs, and Contributed. The main content area features the title 'R-3.6.2 for Windows (32/64 bit)' and a prominent button labeled 'Download R 3.6.2 for Windows (83 megabytes, 32/64 bit)'. Below this button are links for 'Installation and other instructions' and 'New features in this version'. A paragraph explains how to verify the download against the CRAN server using md5sum. A 'Frequently asked questions' section lists three common queries. Below that, a note directs users to the R FAQ and R Windows FAQ. An 'Other builds' section mentions patched snapshots and development versions. A note to webmasters provides a stable link to the current Windows binary release. The footer indicates the last change was on 2019-12-12. At the bottom of the browser window, a taskbar shows a file named 'R-3.6.2-win.exe' which is circled in red.

R logo

R-3.6.2 for Windows (32/64 bit)

[Download R 3.6.2 for Windows](#) (83 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

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Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

- Patches to this release are incorporated in the [r-patched snapshot build](#).
- A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot](#)
- [Previous releases](#)

Note to webmasters: A stable link which will redirect to the current Windows binary release is CRAN.MIRROR>/bin/windows/base/release.htm.

Last change: 2019-12-12

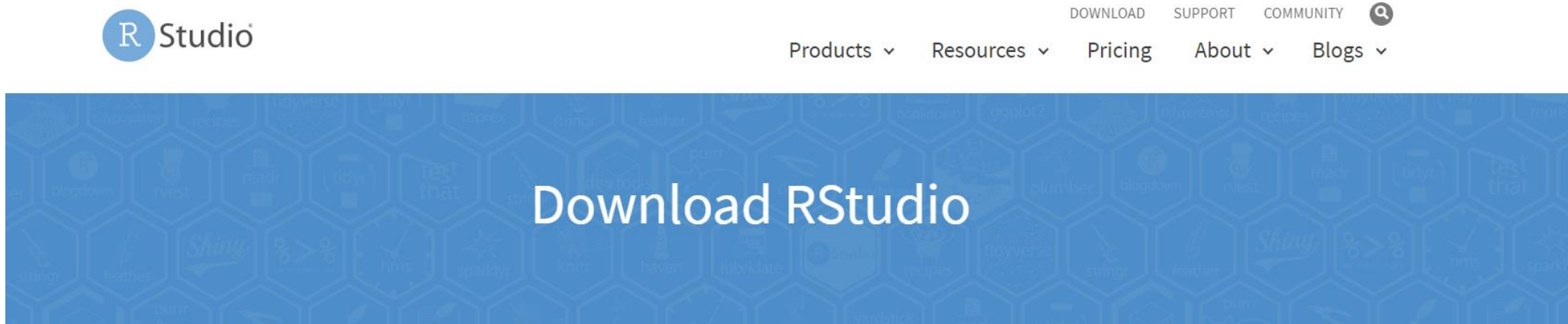
R-3.6.2-win.exe

Installing R-studio

Installing R-studio

1: Click on the link :

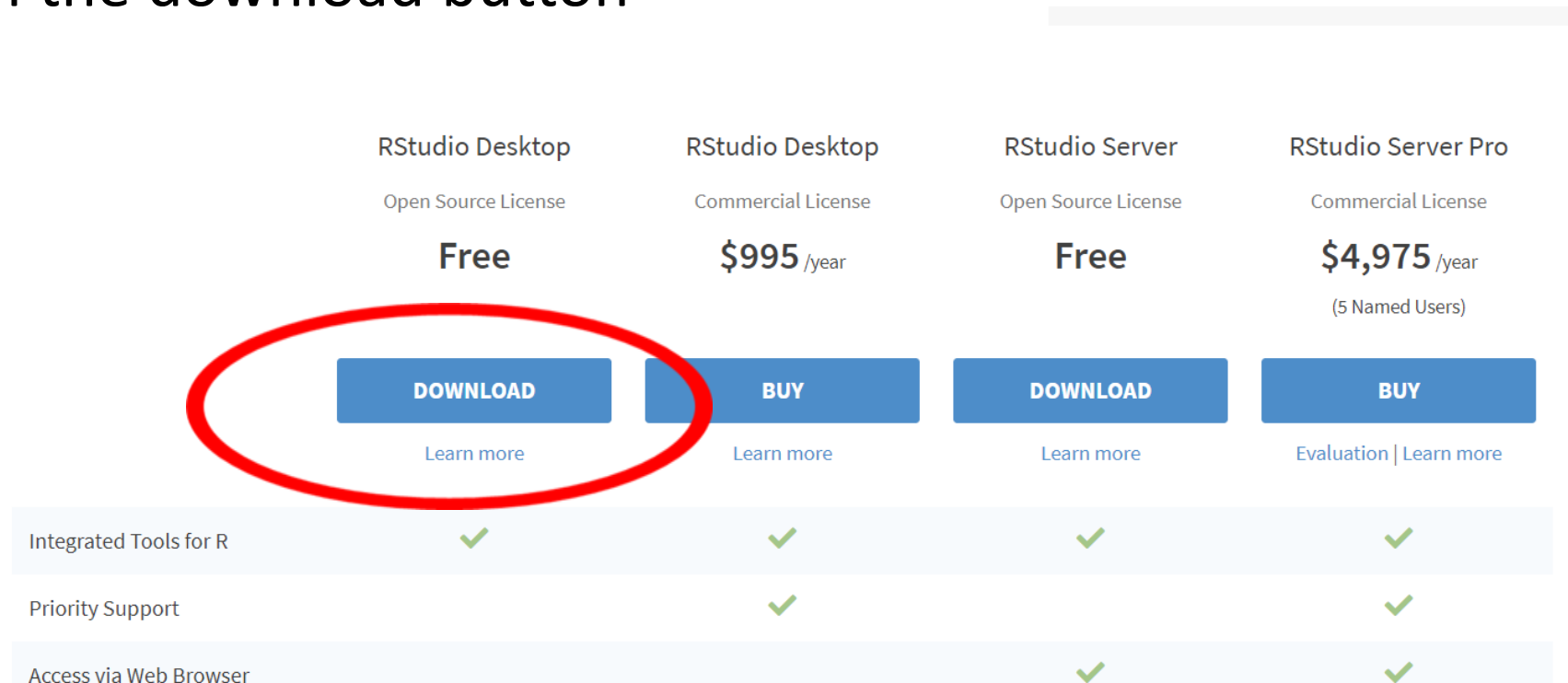
<https://rstudio.com/products/rstudio/download/>



Installing R-studio

2: Scroll to the bottom of the page

3: Click on the download button



The screenshot shows the RStudio pricing page. At the top, there's a horizontal bar with the RStudio logo on the left and a search bar on the right. Below this, there are four product cards arranged in a row. The first card is for 'RStudio Desktop' with an 'Open Source License' and is 'Free'. The second card is also for 'RStudio Desktop' but with a 'Commercial License' for '\$995 /year'. The third card is for 'RStudio Server' with an 'Open Source License' and is 'Free'. The fourth card is for 'RStudio Server Pro' with a 'Commercial License' for '\$4,975 /year (5 Named Users)'. Each card has a blue button: 'DOWNLOAD' for the open source versions and 'BUY' for the commercial versions. The 'DOWNLOAD' button for the first 'RStudio Desktop' card is circled in red. Below the buttons are links for 'Learn more'. At the bottom of the page, there are three rows of features: 'Integrated Tools for R', 'Priority Support', and 'Access via Web Browser'. Each feature row has a green checkmark under the first three cards and a green checkmark under the fourth card.

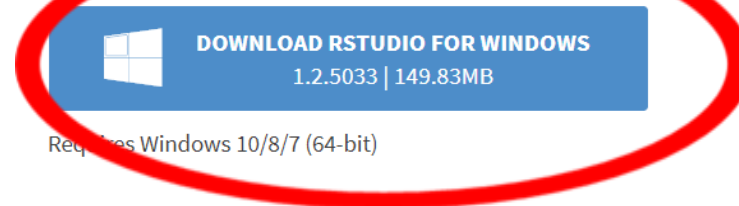
	RStudio Desktop Open Source License Free	RStudio Desktop Commercial License \$995 /year	RStudio Server Open Source License Free	RStudio Server Pro Commercial License \$4,975 /year (5 Named Users)
	DOWNLOAD Learn more	BUY Learn more	DOWNLOAD Learn more	BUY Evaluation Learn more
Integrated Tools for R	✓	✓	✓	✓
Priority Support		✓		✓
Access via Web Browser			✓	✓

Installing R-studio

4: Click on the download for Windows button

RStudio Desktop 1.2.5033 - [Release Notes](#)

1. Install R. RStudio requires [R 3.0.1+](#).
2. Download RStudio Desktop. Recommended for your system:



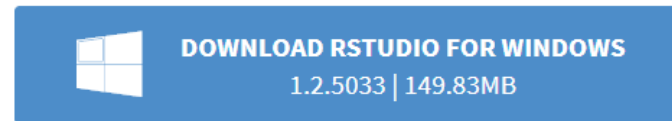
Installing R-studio

5: Wait for download
then double click the
R-Studio-
1.2.5033.exe

6: Follow the install
instructions (choose
defaults)

RStudio Desktop 1.2.5033 - [Release Notes](#)

1. Install R. RStudio requires [R 3.0.1+](#).
2. Download RStudio Desktop. Recommended for your system:

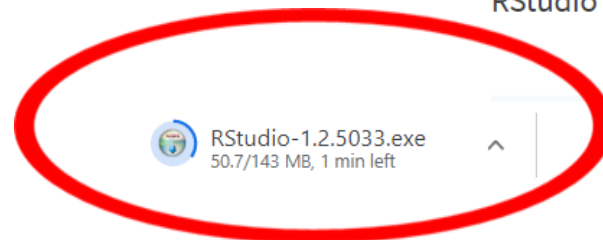


Requires Windows 10/8/7 (64-bit)

All Installers

Linux users may need to [import RStudio's public code-signing key](#) prior to installation, d

RStudio 1.2 requires a 64-bit operating system. If you are on a 32 bit system, you can use



Other helpful links

- R project (<https://www.r-project.org/>)

Tips for beginners:

- <https://support.rstudio.com/hc/en-us/articles/201141096-Getting-Started-with-R>
- Some other tips for setting up and running R by Carl Swartz (<http://people.stat.sfu.ca/~cschwarz/CourseNotes/HowGetSoftware.html#R>)
- Beginners course (<https://bcgov.github.io/ds-cop-intro-to-r/>)