

Getting R and RStudio

Pay It Forward Workshop
Pre-program Session (Lizz Huntley)

Contents of this presentation

1. What is R? What is RStudio?
2. Why would we use them?
3. How to install R
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1. What are R and RStudio?



== a programming language



== software to more easily use that programming language

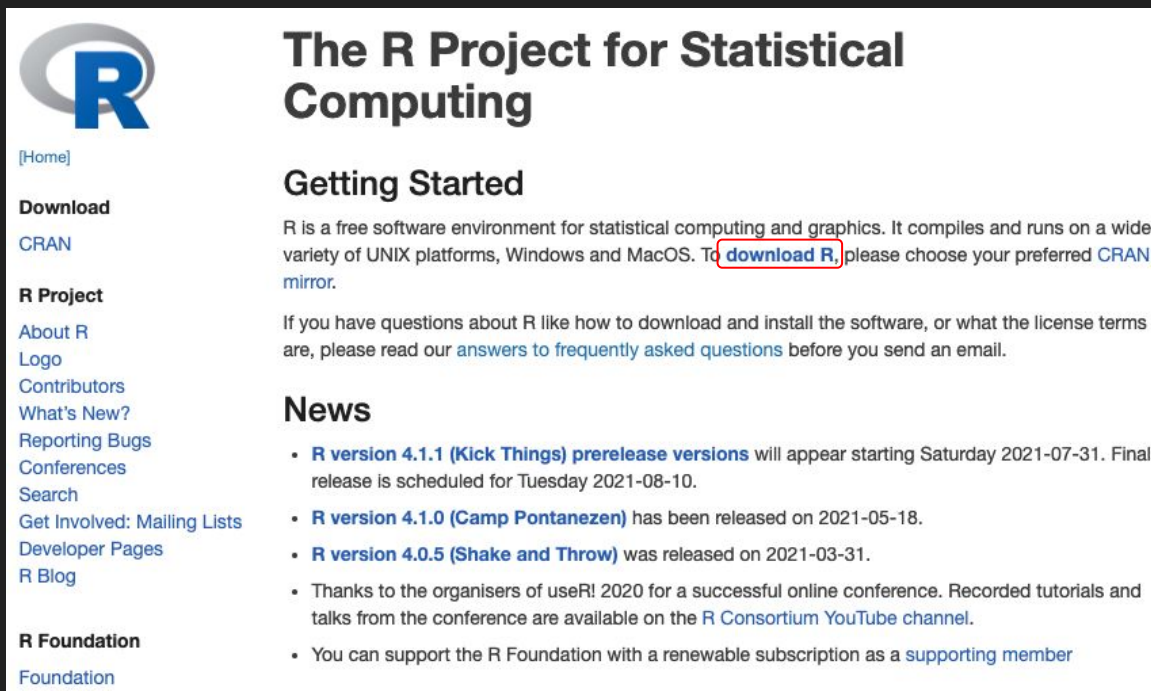
2. Why would we use them?

1. FREE
2. Widely used
3. Did I mention free?
4. Benefits over “point-and-click” software




3. How to install R

1. Go to the R homepage (r-project.org) and click on “download R”



The screenshot shows the R Project homepage. On the left is a sidebar with navigation links. The main content area features the title 'The R Project for Statistical Computing', a 'Getting Started' section with a paragraph about R and a 'download R' link highlighted with a red box, and a 'News' section with a list of recent releases and events.



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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 4.1.1 (Kick Things) prerelease versions** will appear starting Saturday 2021-07-31. Final release is scheduled for Tuesday 2021-08-10.
- **R version 4.1.0 (Camp Pontanezen)** has been released on 2021-05-18.
- **R version 4.0.5 (Shake and Throw)** was released on 2021-03-31.
- Thanks to the organisers of useR! 2020 for a successful online conference. Recorded tutorials and talks from the conference are available on the [R Consortium YouTube channel](#).
- You can support the R Foundation with a renewable subscription as a [supporting member](#)

3. How to install R

2. Select a CRAN mirror

- Click on whichever institution is geographically closest to you
- All links lead to the same download page to get R

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:

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/>

CSIRO


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

AARNET

3. How to install R

3. Select the “Download R” link for whichever operating system you use

- Follow whatever instructions you normally take for downloading on your computer



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The Comprehensive R Archive Network

Download and Install R

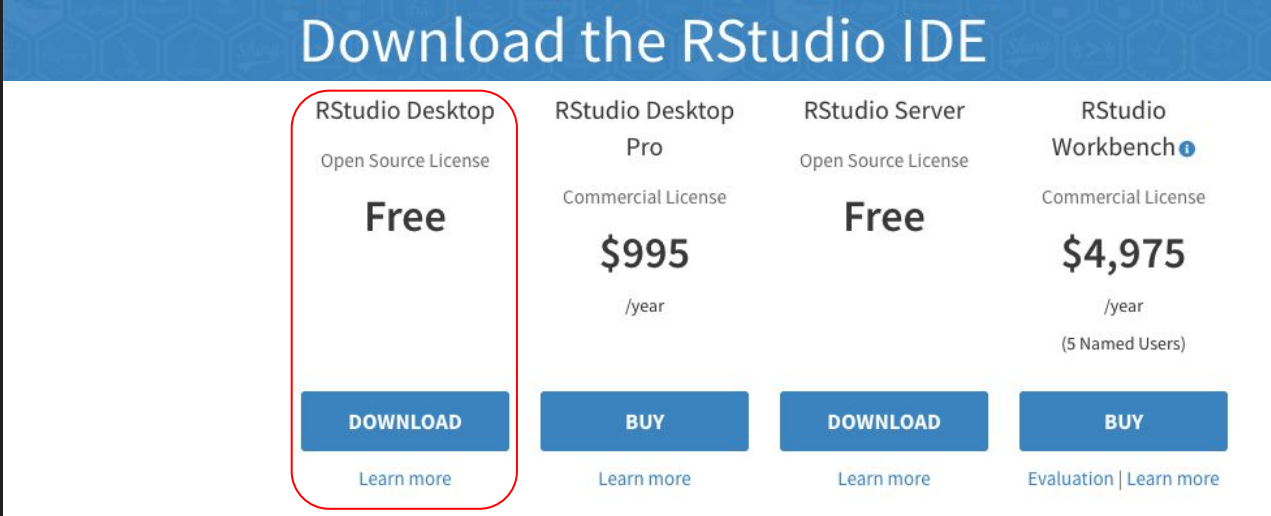
Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux \(Debian, Fedora/Redhat, Ubuntu\)](#)
- [Download R for macOS](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your

4. How to install RStudio

1. Go to the RStudio download page
(<https://www.rstudio.com/products/rstudio/download/>)
2. Click on the “RStudio *Desktop*” download button



The screenshot displays the 'Download the RStudio IDE' page. It features four product cards arranged horizontally. The first card, 'RStudio Desktop', is highlighted with a red rounded rectangle. It lists 'Open Source License' and 'Free' with a 'DOWNLOAD' button and a 'Learn more' link. The second card, 'RStudio Desktop Pro', lists 'Commercial License' and '\$995 /year' with a 'BUY' button and a 'Learn more' link. The third card, 'RStudio Server', lists 'Open Source License' and 'Free' with a 'DOWNLOAD' button and a 'Learn more' link. The fourth card, 'RStudio Workbench', lists 'Commercial License' and '\$4,975 /year (5 Named Users)' with a 'BUY' button and a link to 'Evaluation | Learn more'.

Product	License	Price	Action	Additional Info
RStudio Desktop	Open Source License	Free	DOWNLOAD	Learn more
RStudio Desktop Pro	Commercial License	\$995 /year	BUY	Learn more
RStudio Server	Open Source License	Free	DOWNLOAD	Learn more
RStudio Workbench	Commercial License	\$4,975 /year (5 Named Users)	BUY	Evaluation Learn more

5. Helpful links

- Videos on installing R and RStudio
 - [How to Install R and R Studio on Windows 10](#)
 - [How to install R and R Studio on Mac](#)
- Written explanations on installing R and RStudio
 - [From DataCarpentry](#)

6. References

Content:

- https://datacarpentry.org/R-ecology-lesson/index.html#Install_required_R_packages
- <https://bookdown.org/ndphillips/YaRrr/why-is-r-so-great.html>

Images:

- Recipe Book: Photo by Social Cut on Unsplash
- McCafe Delivery: Photo by [Erik Mclean](#) on [Unsplash](#)