

Installing R and RStudio

Installing R

R can be downloaded from <https://cran.r-studio.org>

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.

Choose the version of R appropriate for your operating system

**Note that R can be installed without administrator privileges
on all operating systems**

Accepting the default options should generally be fine

R for Windows

Subdirectories:

[base](#)

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

[contrib](#)

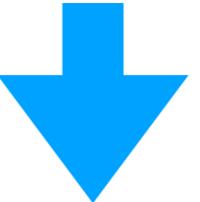
Binaries of contributed CRAN packages (for R >= 2.13.x; managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.

[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Binaries of contributed CRAN packages for outdated versions of R (for R 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.



R-3.6.1 for Windows (32/64 bit)

[Download R 3.6.1 for Windows](#) (81 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 [fingerprint](#) on the master server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

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 3.6.1 "Action of the Toes" released on 2019/07/05

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-3.6.1.pkg`

in the *Terminal* application to print the MD5 checksum for the R-3.6.1.pkg image. On Mac OS X 10.7 and later you can also validate the signature using
`pkgutil --check-signature R-3.6.1.pkg`

Latest release:

[R-3.6.1.pkg](#)

MD5-hash: 279e6662103dfe6a625b4573143cb9⁵
SHA1-hash: 4e932f8e5013870d2a9179b54eaed277f41657b0
(ca. 76MB)

R 3.6.1 binary for OS X 10.11 (El Capitan) and higher, signed package. Contains R 3.6.1 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.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) to be installed since it is no longer part of OS X. Always re-install XQuartz when upgrading your macOS to a new major version.

Installing RStudio

R Studio®

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RStudio

Shiny

R Packages

RStudio Team

RStudio Server Pro

RStudio Connect

RStudio Package Manager

shinyapps.io

Download RStudio

Discover Shiny

Discover RStudio Team

Discover RStudio Server Pro Standard and Enterprise

The screenshot shows the RStudio homepage. A red circle highlights the browser's address bar at the top, which contains the URL https://www.rstudio.com. Below the address bar, the RStudio logo is visible. To the right of the logo is a navigation bar with links for Products, Resources, Pricing, About Us, and Blogs. A magnifying glass icon is also present. A black arrow points to the 'Products' link. A dropdown menu is open under 'Products', listing several items: RStudio, Shiny, R Packages, RStudio Team, RStudio Server Pro, RStudio Connect, RStudio Package Manager, and shinyapps.io. The background of the page features a blue hexagonal pattern with various R package names like dplyr, knitr, and tidyverse.

Introducing RStudio Team

RStudio's recommended professional data science solutions for every team. RStudio Team includes:

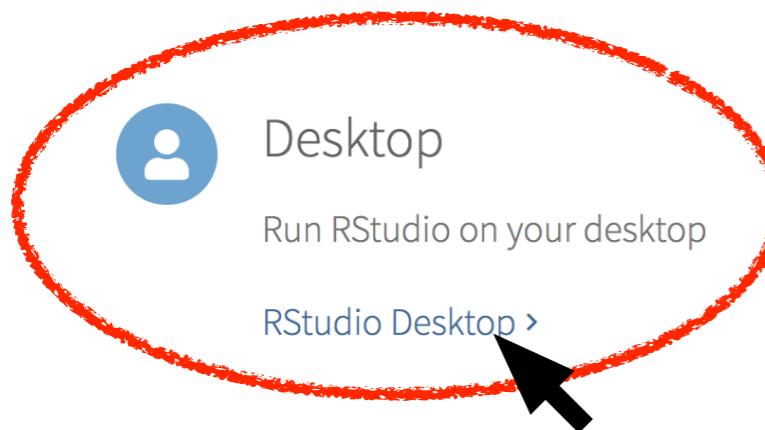


RStudio

Take control of your R code

RStudio is an integrated development environment (IDE) for R. It includes a console, syntax-highlighting editor that supports direct code execution, as well as tools for plotting, history, debugging and workspace management. [Click here](#) to see more RStudio features.

RStudio is available in open source and commercial editions and runs on the desktop (Windows, Mac, and Linux) or in a browser connected to RStudio Server or RStudio Server Pro (Debian/Ubuntu, RedHat/CentOS, and SUSE Linux).



Server

Centralize access and computation

RStudio Server >

Take a tour of RStudio's IDE



Products Resources Pricing About Us Blogs



RStudio Desktop

Open Source Edition

Commercial License

Overview

- Access RStudio locally
- Syntax highlighting, code completion, and smart indentation
- Execute R code directly from the source editor
- Quickly jump to function definitions
- Easily manage multiple working directories using projects
- Integrated R help and documentation
- Interactive debugger to diagnose and fix errors quickly
- Extensive package development tools

All of the features of open source; plus:

- A commercial license for organizations not able to use AGPL software
- Access to priority support

Support

Community forums only

- Priority Email Support
- 8 hour response during business hours (ET)

License

AGPL v3

[RStudio License Agreement](#)

Pricing

Free

\$995/year

[DOWNLOAD RSTUDIO DESKTOP](#)

[BUY NOW](#)



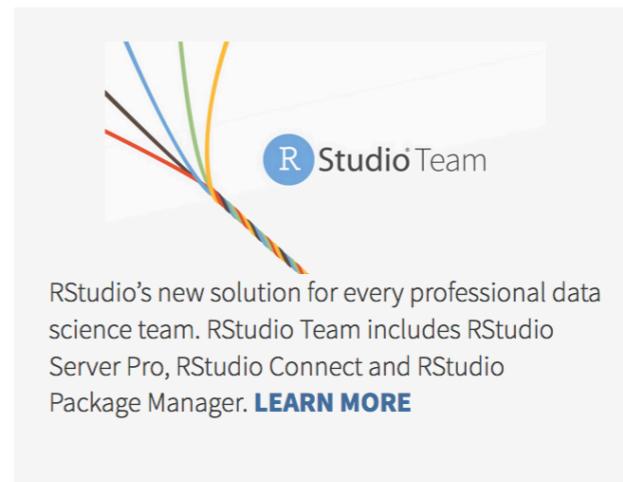


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Choose Your Version of RStudio

RStudio is a set of integrated tools designed to help you be more productive with R. It includes a console, syntax-highlighting editor that supports direct code execution, and a variety of robust tools for plotting, viewing history, debugging and managing your workspace. [Learn More about RStudio features.](#)



RStudio's new solution for every professional data science team. RStudio Team includes RStudio Server Pro, RStudio Connect and RStudio Package Manager. [LEARN MORE](#)

RStudio Desktop

Open Source License

FREE

[DOWNLOAD](#)

[Learn More](#)

RStudio Desktop

Commercial License

\$995 per year

[BUY](#)

[Learn More](#)

RStudio Server

Open Source License

FREE

[DOWNLOAD](#)

[Learn More](#)

RStudio Server Pro

Commercial License

\$4,975 per year
(5 Named Users)

[BUY](#)

[Evaluation | Learn More](#)

Integrated Tools for R



Choose the version corresponding to your operating system

Installers for Supported Platforms

| Installers | Size | Date | MD5 |
|---|----------|------------|--|
| RStudio 1.2.1335 - Windows 7+ (64-bit) | 126.9 MB | 2019-04-08 | d0e2470f1f8ef4cd35a669aa323a2136 |
| RStudio 1.2.1335 - macOS 10.12+ (64-bit) | 121.1 MB | 2019-04-08 | 6c570b0e2144583f7c48c284ce299eef |
| RStudio 1.2.1335 - Ubuntu 14/Debian 8 (64-bit) | 92.2 MB | 2019-04-08 | c1b07d0511469abfe582919b183eee83 |
| RStudio 1.2.1335 - Ubuntu 16 (64-bit) | 99.3 MB | 2019-04-08 | c142d69c210257fb10d18c045fff13c7 |
| RStudio 1.2.1335 - Ubuntu 18/Debian 10 (64-bit) | 100.4 MB | 2019-04-08 | 71a8d1990c0d97939804b46cfb0aea75 |
| RStudio 1.2.1335 - Fedora 19/RedHat 7 (64-bit) | 114.1 MB | 2019-04-08 | 296b6ef88969a91297fab6545f256a7a |
| RStudio 1.2.1335 - Debian 9 (64-bit) | 100.6 MB | 2019-04-08 | 1e32d4d6f6e216f086a81ca82ef65a91 |
| RStudio 1.2.1335 - OpenSUSE 15 (64-bit) | 101.6 MB | 2019-04-08 | 2795a63c7efd8e2aa2dae86ba09a81e5 |
| RStudio 1.2.1335 - SLES/OpenSUSE 12 (64-bit) | 94.4 MB | 2019-04-08 | c65424b06ef6737279d982db9eefcae1 |

- Make sure you make a shortcut to RStudio on your Desktop (Windows) or Dock (Mac). This is what we'll be using all the time

Installing some default R packages

The screenshot shows the RStudio interface with several panes:

- Top Bar:** RStudio, File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Window, Help.
- Toolbar:** Includes icons for New Project, Go to file/function, Addins, and Project: (None).
- File Menu:** Shows a dropdown with options like R Script, Create a new R script, R Markdown..., Shiny Web App..., and others.
- Jobs Pane:** Displays the R startup message: "9-04-26) -- "Planting of a Tree" The R Foundation for Statistical Computing release-darwin15.6.0 (64-bit)".
- Environment Pane:** Shows the Global Environment. It displays the message "Environment is empty".
- Files Pane:** Shows the contents of the Home directory, including files like %le.screencaptre, .bash_history, .bash_profile, .bash_profile-anaconda3.bak, .bash_sessions, .cache, .CFUserTextEncoding, .coffee_history, .conda, .condarc, and .config.

RStudio File Edit Code View Plots Session Build Debug Profile Tools Window Help RStudio Addins Project: (None)

Untitled1 x Source on Save Import Dataset Global Environment

Run Source Environment History Connections

Grid

Environment is empty

1

1:1 (Top Level) R Script

Console Terminal Jobs

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

>

Files Plots Packages Help Viewer

New Folder Delete Rename More

Home

| Name | Size | Modified |
|-----------------------------|--------|-----------------------|
| %le.screencaptre | 0 B | Mar 23, 2019, 7:53 PM |
| .anaconda | | |
| .anaconda_backup | | |
| .android | | |
| .atom | | |
| .bash_history | 7.6 KB | Jul 17, 2019, 1:04 AM |
| .bash_profile | 675 B | Jul 4, 2019, 1:22 AM |
| .bash_profile-anaconda3.bak | 149 B | Nov 23, 2017, 2:26 AM |
| .bash_sessions | | |
| .cache | | |
| .CFUserTextEncoding | 7 B | Jun 21, 2019, 9:45 AM |
| .coffee_history | 0 B | Oct 26, 2018, 5:45 PM |
| .conda | | |
| .condarc | 40 B | Jul 4, 2019, 2:14 AM |
| .config | | |

Type the above line exactly as written

The screenshot shows the RStudio interface. In the top-left, the code editor window titled 'Untitled1*' contains the R command: `install.packages(c("tidyverse", "rmarkdown", "tinytex", "rio"))`. The top bar includes the RStudio menu and various status indicators like battery level and signal strength. To the right of the code editor are three main panels: the Environment panel, which displays the message 'Environment is empty'; the History panel, which is currently inactive; and the Connections panel, also inactive. Below the code editor is the Console panel, which displays the standard R startup message about being free software with no warranty, followed by prompts and information about contributors and help. The bottom-right corner shows the Files panel, listing files and folders in the current directory, including '.anaconda', '.bash_history', and '.config'.

RStudio File Edit Code View Plots Session Build Debug Profile Tools Window Help RStudio Addins Project: (None)

Untitled1* Run Source

```
1 install.packages(c("tidyverse", "rmarkdown", "tinytex", "rio"))
```

Environment History Connections

Import Dataset Global Environment

| Name | Type | Length | Size | Value |
|----------------------|------|--------|------|-------|
| Environment is empty | | | | |

Files Plots Packages Help Viewer

New Folder Delete Rename More

Home

| Name | Size | Modified |
|-----------------------------|--------|-----------------------|
| %le.screencaptre | 0 B | Mar 23, 2019, 7:53 PM |
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| .conda | | |
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| .config | | |

1:63 (Top Level) R Script

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'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

>

**You should be all set
to start class!**