Introducción a R: Instalación y elementos básicos

Darwin Del Castillo, MD

Contenido de hoy I

Instalación

R: Mis primeros pasos

Instalación

¿Cómo instalar R?

Descargar R de la página oficial: https://cran.r-project.org/



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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 Linux package management system in addition to the link above.

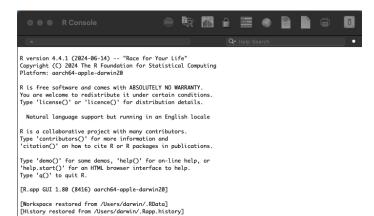
Source Code for all Platforms

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 (2024-10-31, Pile of Leaves) R-4.4.2.tar.gz, read what's new in the latest version.
- . The CRAN directory src/base-prerelease contains R alpha, beta, and re releases as daily snapshots in time periods before a planned release.
- Between releases, the same directory src/base-prerelease contains snapshots of current patched and development versions.
 Please read about new features and bug fixes before filing corresponding feature requests or bug reports.
- Alternatively, daily snapshots are available here.
- . Source code of older versions of R is available here.
- Contributed extension packages

Ouestions About R

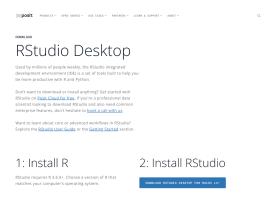
If you have questions about R like how to download and install the software, or what the license terms are, please read our <u>answers to frequently asked questions</u> before you send an email.



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¿Cómo instalar RStudio?

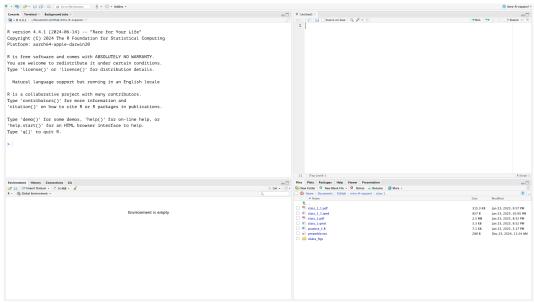
Descargar RStudio de la página oficial: https://posit.co/products/rstudio/download/



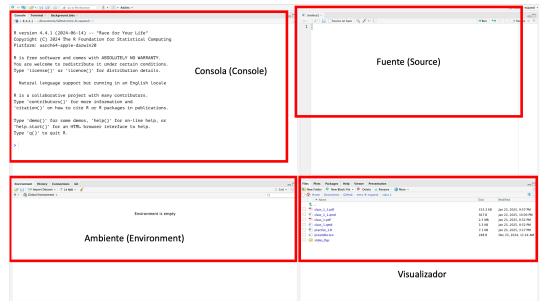
¿Qué es RStudio?

- RStudio es un entorno de desarrollo integrado (IDE) para R.
- Interfaz gráfica que facilita la escritura de código en R.
- No es la única, pero es la más popular (p.ej. RCommander, Visual Studio Code, Positron, Jupyter).

RStudio



RStudio: Elementos de la interfaz



Instalación R: Mis primeros pasos

R: Mis primeros pasos

R: Operaciones básicas

- R puede ser utilizado como una calculadora.
- Operadores aritméticos: +, -, \times , /, \wedge , $\sqrt{}$

```
# Suma básica
1 + 1
[1] 2
# Multiplicación
3 * 4
[1] 12
# Potencia
2^3
[1] 8
# Raíz cuadrada
sqrt(16)
[1] 4
```