

Instalación de R y RStudio

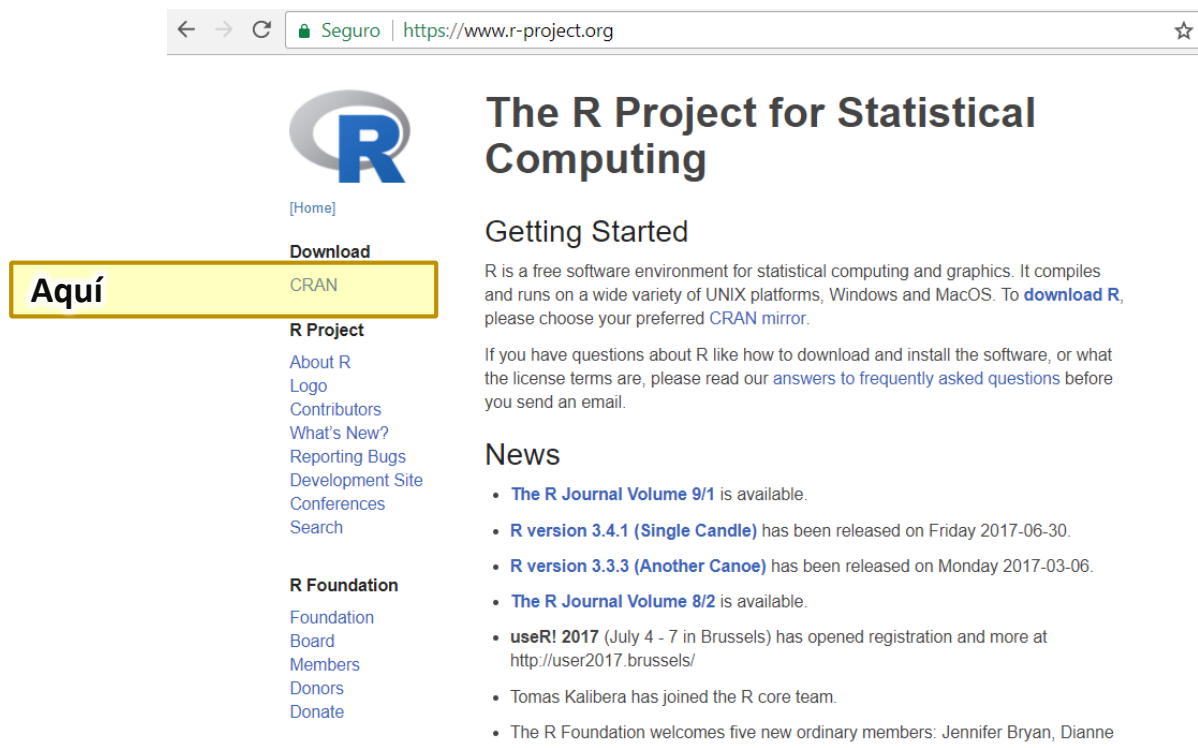


R y RStudio




R y RStudio

- Dirigirse a su web (<http://www.r-project.org>)
- Seleccionar el enlace Download [CRAN](#).



The screenshot shows a web browser window with the address bar displaying "Seguro | https://www.r-project.org". The website content includes the R logo, the title "The R Project for Statistical Computing", and a "Getting Started" section. A yellow box highlights the "Download" link in the left sidebar, which points to "CRAN".

← → ↻ Seguro | https://www.r-project.org ☆

 **The R Project for Statistical Computing**

[Home]

Download

Aquí CRAN

R Project

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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](#).

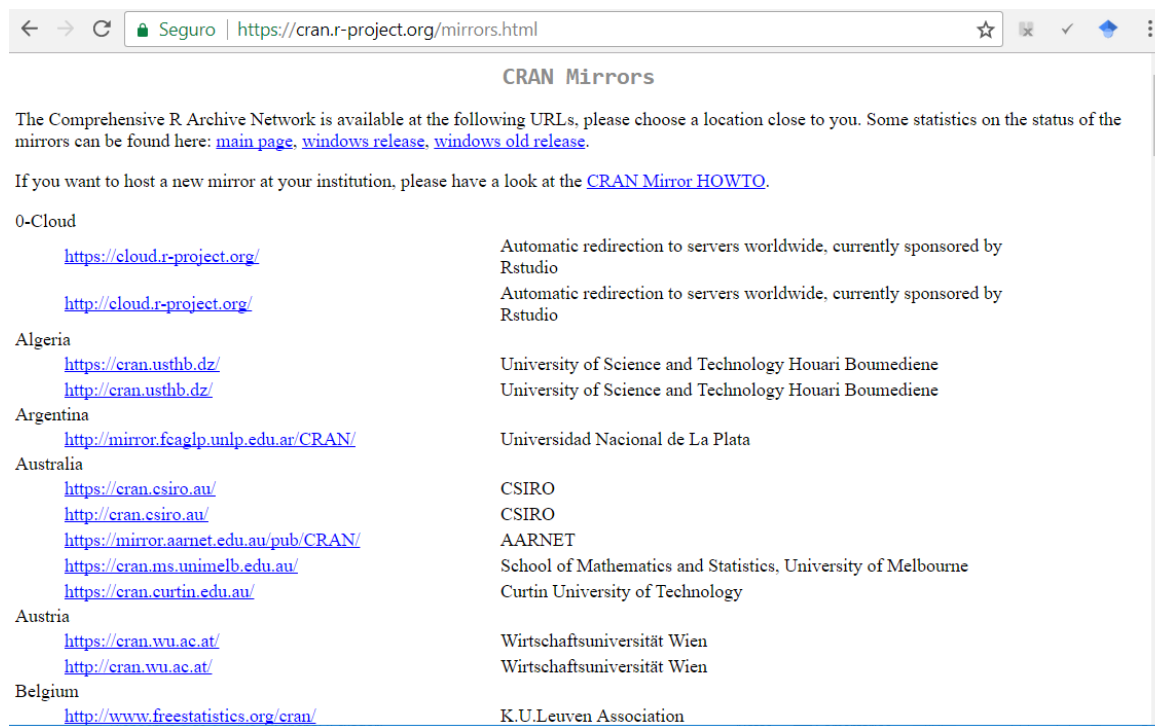
If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

News

- **The R Journal Volume 9/1** is available.
- **R version 3.4.1 (Single Candle)** has been released on Friday 2017-06-30.
- **R version 3.3.3 (Another Canoe)** has been released on Monday 2017-03-06.
- **The R Journal Volume 8/2** is available.
- **useR! 2017** (July 4 - 7 in Brussels) has opened registration and more at <http://user2017.brussels/>
- Tomas Kalibera has joined the R core team.
- The R Foundation welcomes five new ordinary members: Jennifer Bryan, Dianne

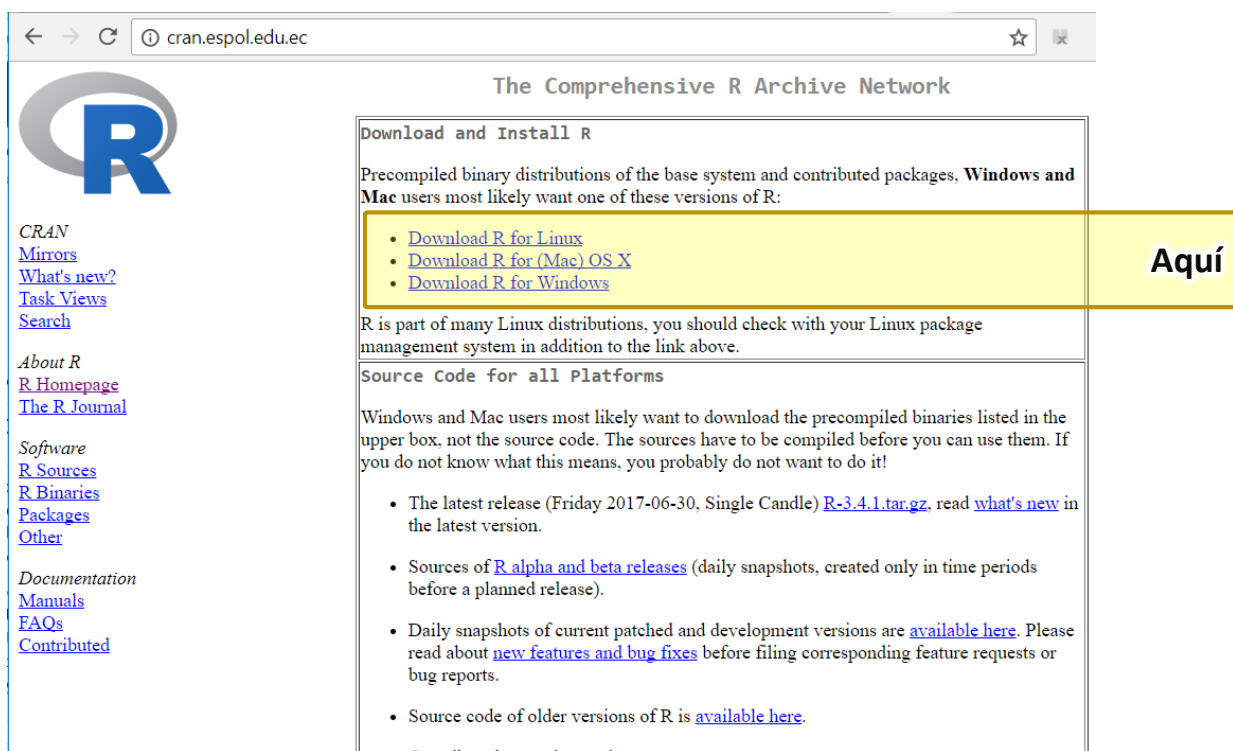
R y RStudio

- Buscar y dar click en el enlace que nos permite descargar R desde Ecuador <http://cran.espol.edu.ec/>



R y RStudio

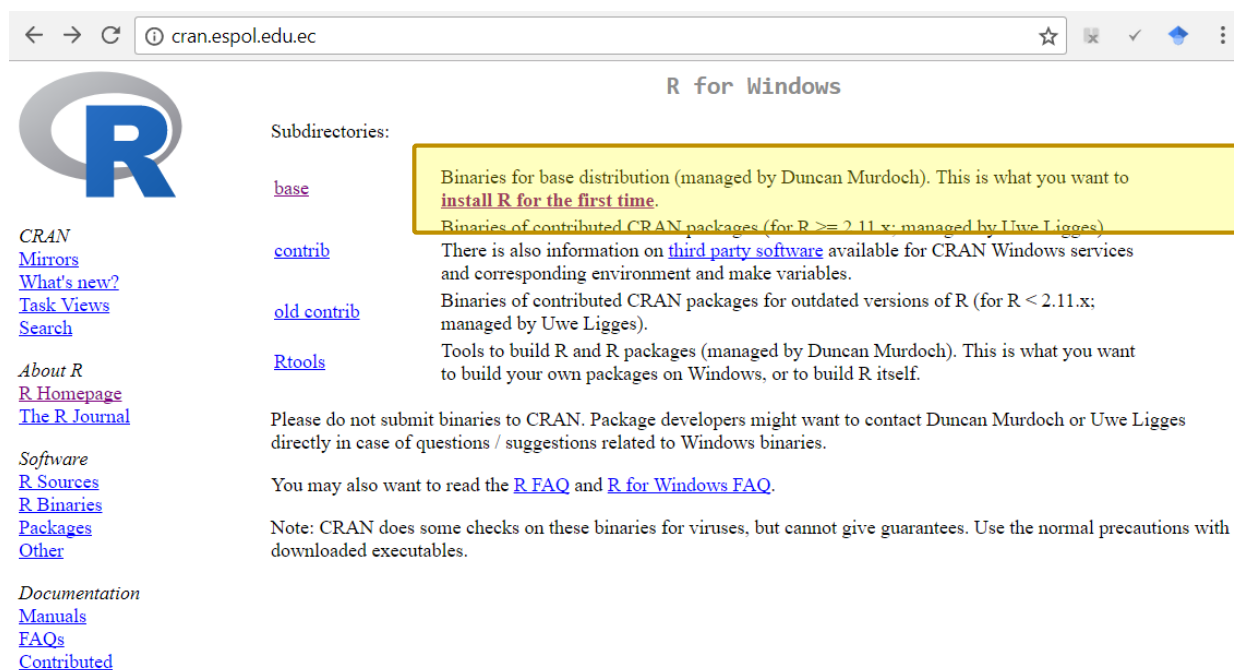
- Elegir la versión que corresponde a nuestro sistema operativo (Windows, Linux o Mac), en este curso se usará Windows.



The screenshot shows the CRAN (Comprehensive R Archive Network) website. The browser address bar shows `cran.espol.edu.ec`. The page title is "The Comprehensive R Archive Network". On the left, there is a sidebar with links: 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 has a section titled "Download and Install R" which states: "Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:". Below this, a yellow box highlights three links: "Download R for Linux", "Download R for (Mac) OS X", and "Download R for Windows". A yellow callout box with the word "Aquí" points to this highlighted area. Below the highlighted links, there is a section titled "Source Code for all Platforms" which states: "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!". This section lists several links for source code, including the latest release, alpha and beta releases, daily snapshots, and older versions.

R y RStudio

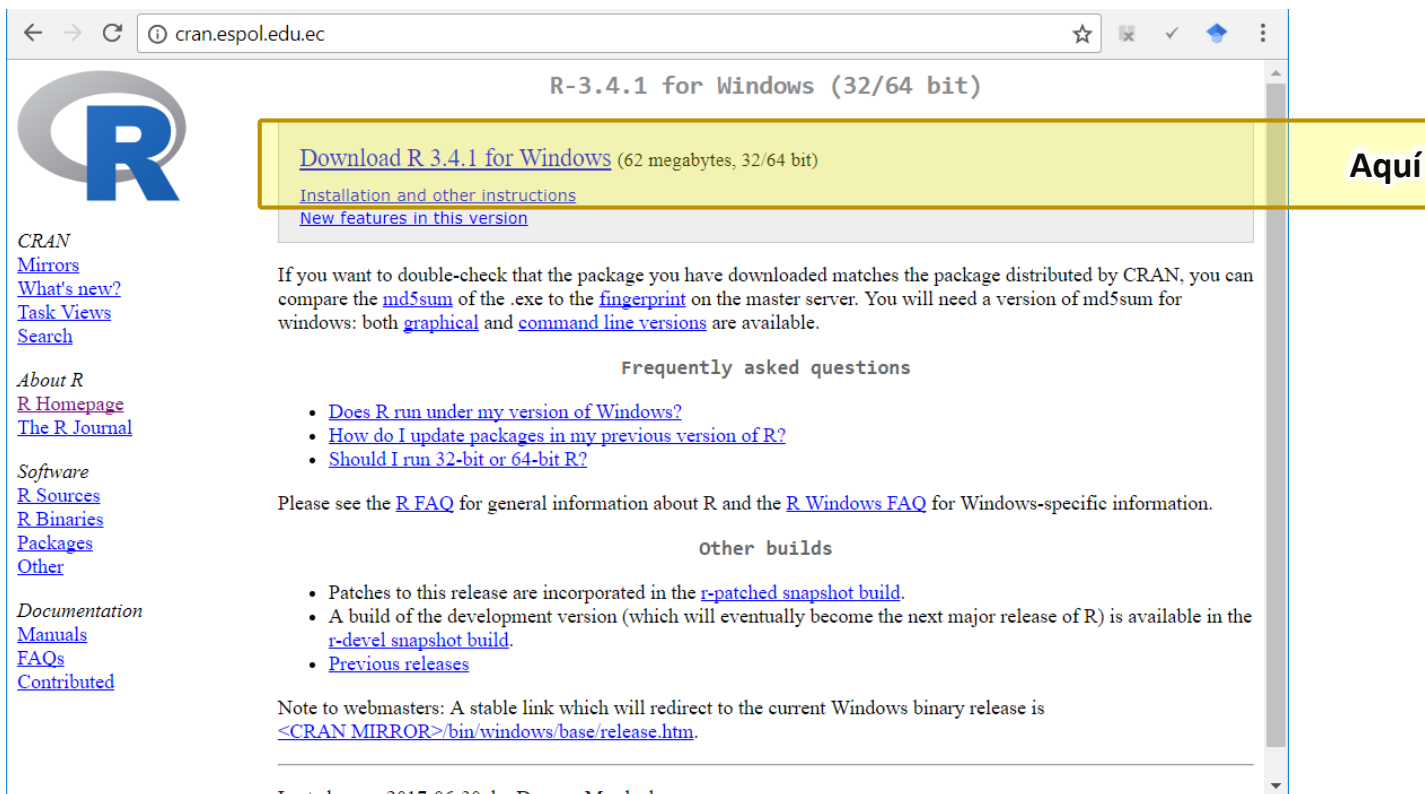
- Escoger, Install R for the first time



The screenshot shows the CRAN website for Windows. The browser address bar displays "cran.espol.edu.ec". The page title is "R for Windows". On the left, there is a sidebar with links: 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 lists subdirectories: base, contrib, old contrib, and Rtools. A yellow box highlights the "base" subdirectory, stating: "Binaries for base distribution (managed by Duncan Murdoch). This is what you want to install R for the first time." To the right of this box, the word "Aquí" is written. Below the subdirectories, there is a note about submitting binaries to CRAN and a link to the R FAQ and R for Windows FAQ.

R y RStudio

- Escoger Download R 3.4.1 for Windows, descargar e instalar.



The screenshot shows a web browser window with the address bar displaying "cran.espol.edu.ec". The page title is "R-3.4.1 for Windows (32/64 bit)". The main content area features a yellow box with the link "Download R 3.4.1 for Windows (62 megabytes, 32/64 bit)". To the right of this box, the word "Aquí" is written. Below the yellow box, there are links for "Installation and other instructions" and "New features in this version". The page also includes a sidebar with links for "CRAN", "About R", "Software", and "Documentation".

R-3.4.1 for Windows (32/64 bit)

[Download R 3.4.1 for Windows](#) (62 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

Aquí

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.

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.

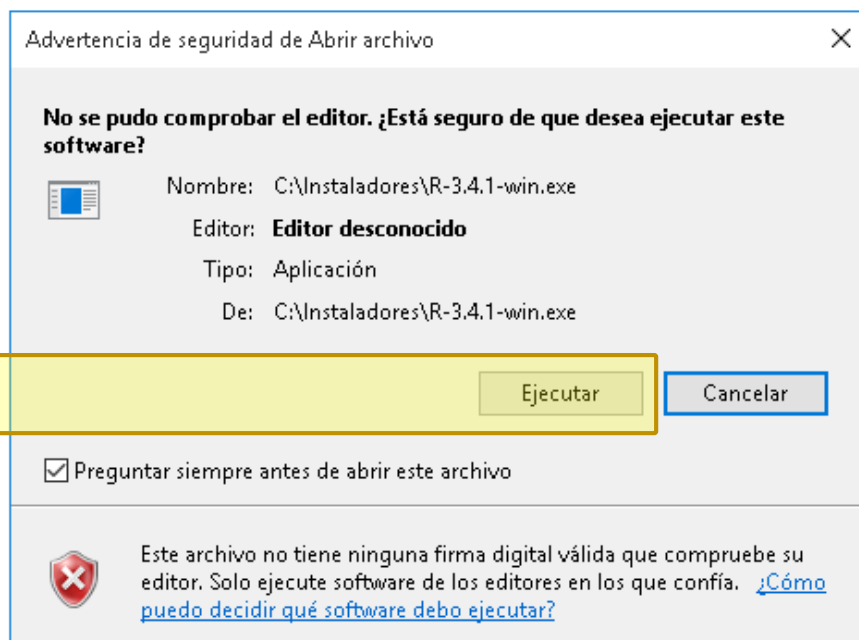
Other builds

- 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 build](#).
- [Previous releases](#)

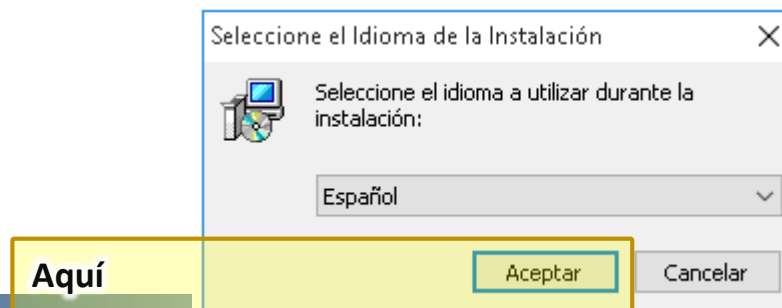
Note to webmasters: A stable link which will redirect to the current Windows binary release is [<CRAN MIRROR>/bin/windows/base/release.htm](#).

Last changes: 2017-06-30, by Duncan Murdoch

Instalar R



- En ciertos Windows sale una pantalla intermedia pidiendo permisos, dar OK.



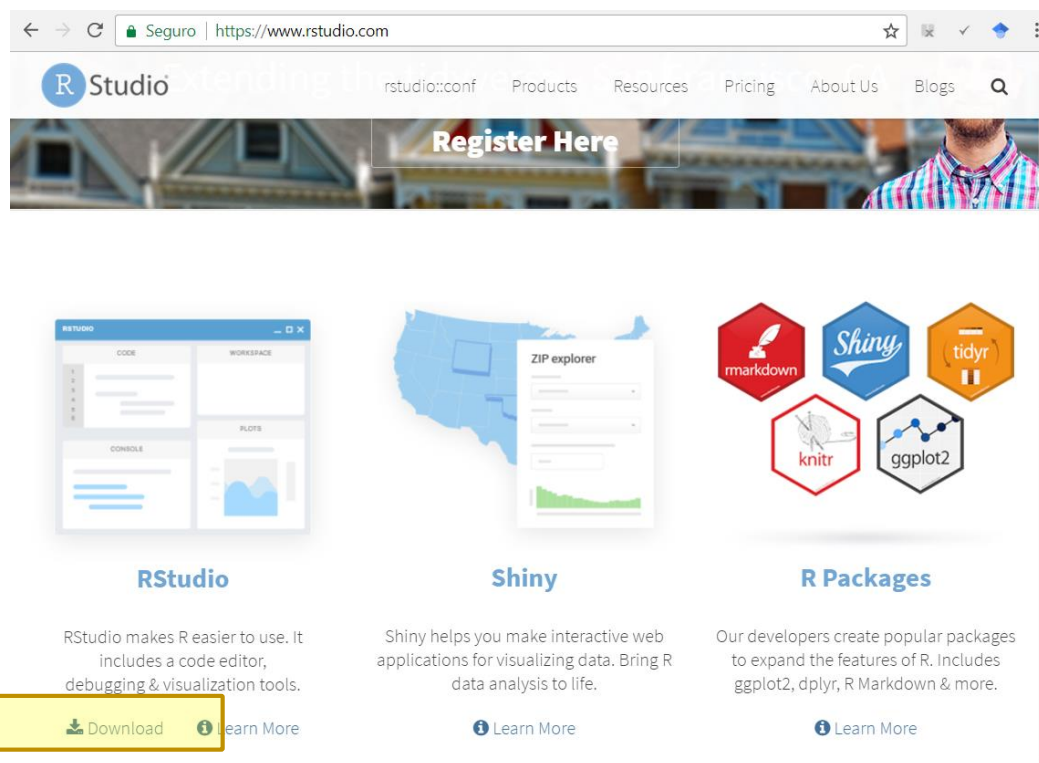
Instalar R

- Luego es dar todo Next > Next (Siguiente > Siguiente)



RStudio

- Dirigirse a su web (<http://www.rstudio.com>)
- Seleccionar el enlace Rstudio - Download



RStudio

- Seleccionar la version de Rstudio a utilizar, en este caso

RStudio Desktop - Open Source License

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

RStudio

[rstudio.conf](#) [Products](#) [Resources](#) [Pricing](#) [About Us](#) [Blogs](#) [Q](#)



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 Desktop Open Source License	RStudio Desktop Commercial License	RStudio Server Open Source License	RStudio Server Pro Commercial License	RStudio Server Pro + RStudio Connect Commercial License
	FREE	\$995 per year	FREE	\$9,995 per year	\$29,995 per year
Integrated Tools for R	●	●	●	●	●
Priority Support		●		●	●
Access via Web Browser			●	●	●
Enterprise Security				●	●
Project Sharing				●	●
Manage Multiple R Sessions & Versions				●	●
Admin Dashboard				●	●
Load Balancing				●	●
Push-Button Publishing					●
Self-Managed Content					●
Scheduled Updates & Distribution					●
License	AGPL	Commercial	AGPL	Commercial	Commercial
Price	FREE	\$995/yr	FREE	\$9,995/yr	\$29,995/yr

Aquí

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R y RStudio

- Seleccionar [RStudio 1.0.153 - Windows Vista/7/8/10](https://www.rstudio.com/products/rstudio/download/#download), descargar e instalar.

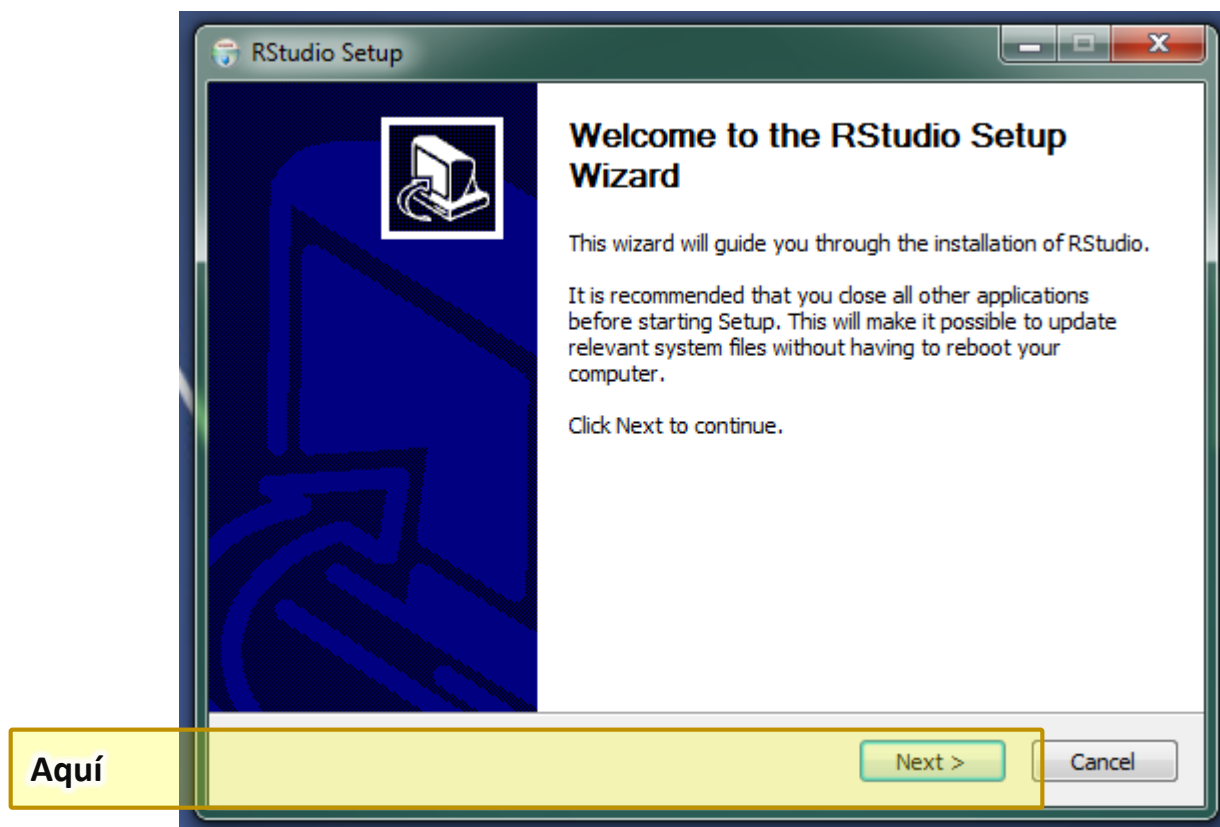
The screenshot shows the RStudio download page. A yellow box highlights the 'RStudio 1.0.153 - Windows Vista/7/8/10' installer. Below the table, there is a section for 'Zip/Tarballs'.

Installers	Size	Date	MD5
RStudio 1.0.153 - Windows Vista/7/8/10	81.9 MB	2017-07-20	b3b4bbc82865ab105c21cb70b17271b3
RStudio 1.0.153 - Mac OS X 10.6+ (64-bit)	71.2 MB	2017-07-20	8773610566b74ec3e1a88b2fdb10c8b5
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	85.5 MB	2017-07-20	981be44f91fc07e5f69f52330da32659
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	91.7 MB	2017-07-20	2d0769bea2bf6041511d6901a1cf69c3
RStudio 1.0.153 - Ubuntu 16.04+/Debian 9+ (64-bit)	61.9 MB	2017-07-20	d584cbab01041777a15d62cbef69a976
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	84.7 MB	2017-07-20	8dfce96059b05a063c49b705eca0ceb4
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	85.7 MB	2017-07-20	16c2c8334f961c65d9bfa8fb813ad7e7

Zip/tar archives	Size	Date	MD5
RStudio 1.0.153 - Windows Vista/7/8/10	117.6 MB	2017-07-20	024b5714fa6ef337fe0c6f5e2894cbcb
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	86.2 MB	2017-07-20	f8e0ffa7ec62665524f9e2477facd346
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	92.7 MB	2017-07-20	7077-101311d1-2dcfbed42cf0f1f4ef

Instalar RStudio

- Ejecutar el archivo .exe y dar todo Next > Next (Siguiente > Siguiente)

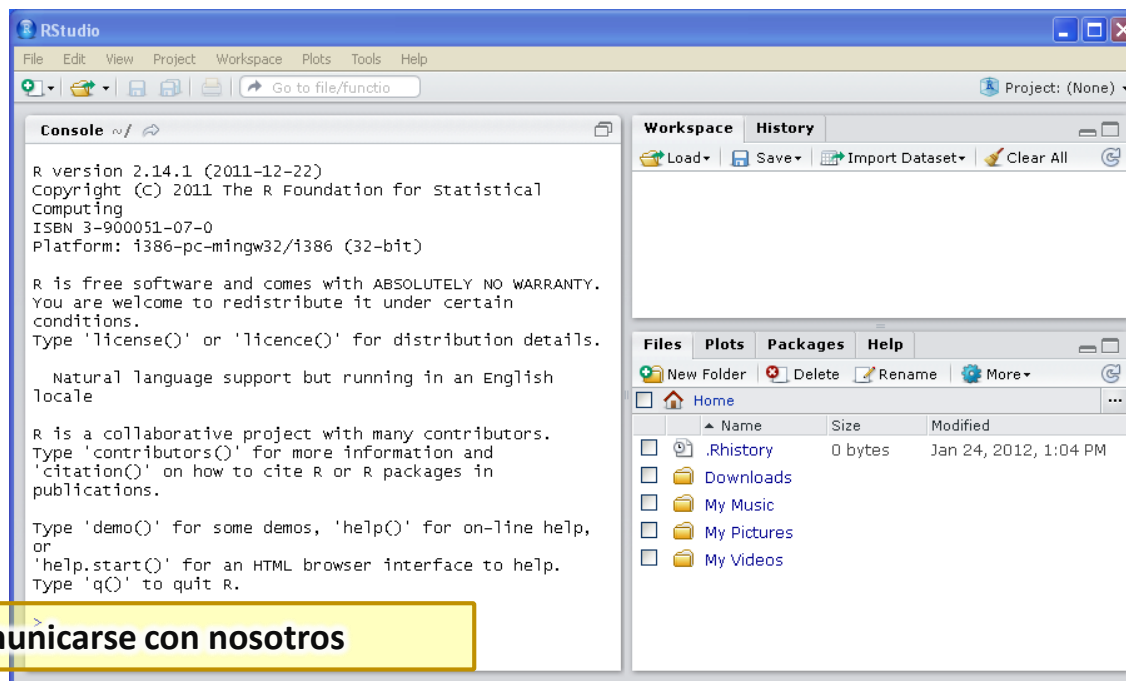




Instalar paquetes necesarios

R y Rstudio: Abrir RStudio

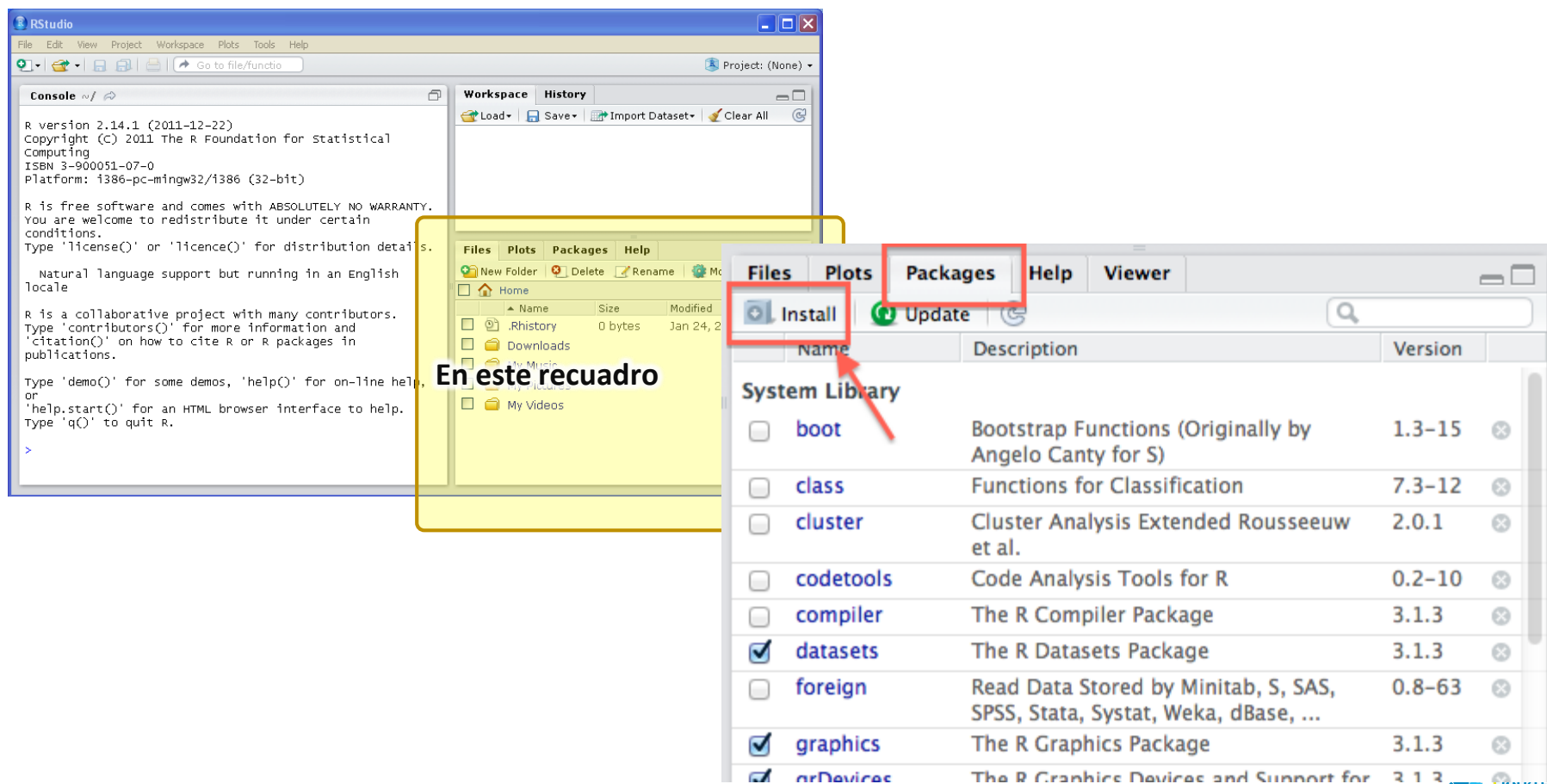
- Abrir RStudio (ojo: es el logo circulo azul con la R en blanco)
- La primer vista es así:



Si no les resulta así, comunicarse con nosotros

R y Rstudio: Instalar un paquete

> Recuadro inferior derecho > Packages > Install



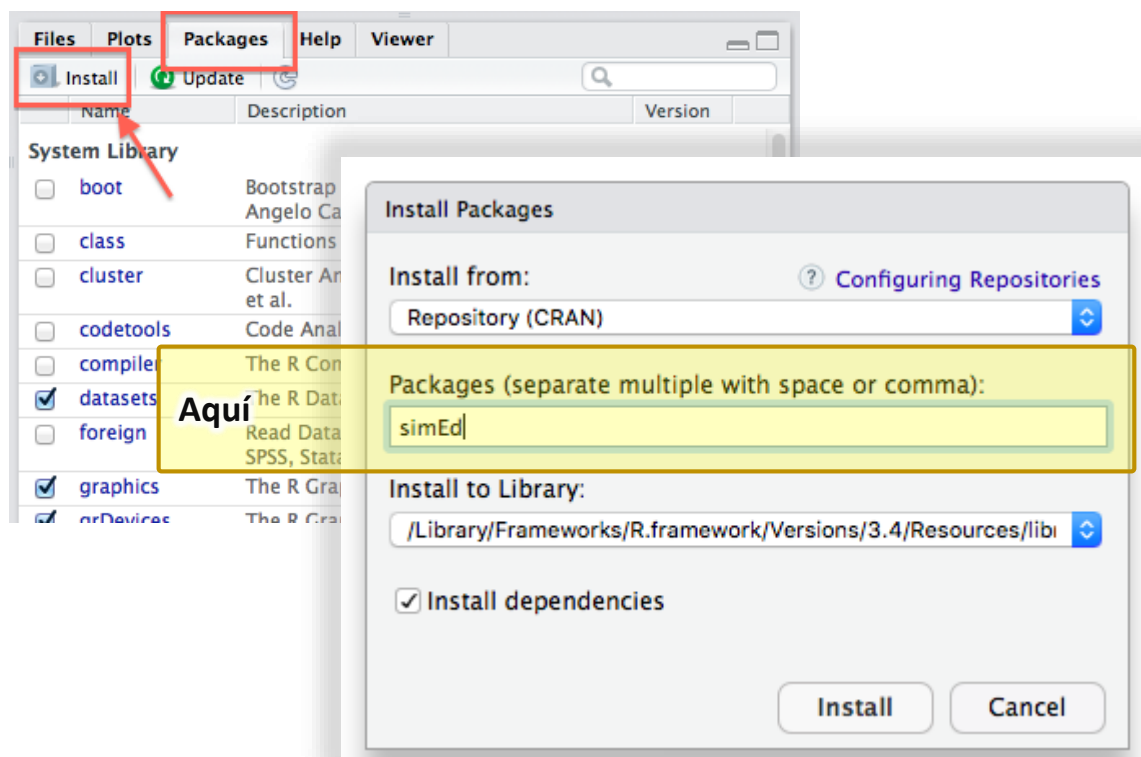
The screenshot shows the RStudio interface. The 'Console' pane on the left displays the R version and platform information. The 'Workspace' pane in the center shows the file explorer. The 'Packages' pane on the right is active, showing a list of installed and available packages. The 'Install' button is highlighted with a red box, and a red arrow points to it. The text 'En este recuadro' is overlaid on the Packages pane.

En este recuadro

Name	Description	Version
System Library		
<input type="checkbox"/> boot	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-15
<input type="checkbox"/> class	Functions for Classification	7.3-12
<input type="checkbox"/> cluster	Cluster Analysis Extended Rousseeuw et al.	2.0.1
<input type="checkbox"/> codetools	Code Analysis Tools for R	0.2-10
<input type="checkbox"/> compiler	The R Compiler Package	3.1.3
<input checked="" type="checkbox"/> datasets	The R Datasets Package	3.1.3
<input type="checkbox"/> foreign	Read Data Stored by Minitab, S, SAS, SPSS, Stata, Systat, Weka, dBase, ...	0.8-63
<input checked="" type="checkbox"/> graphics	The R Graphics Package	3.1.3
<input checked="" type="checkbox"/> graphicsDevices	The R Graphics Devices and Support for	3.1.3

R y Rstudio: Instalar un paquete

> Recuadro inferior derecho > Packages > Install > En el pop up escribir los paquetes a instalar (de preferencia uno a uno para ver mensajes)



Paquetes :

- tidyverse
- openxlsx
- reshape2
- GGally
- modeest
- fdth
- prettyR

tener cuidado con las minúsculas y mayúsculas

Instalación de R y RStudio

Ahora ya tienes R y RStudio instalados y listos para usar, esto necesitas para el curso.

Pero si deseas poder exportar archivos de Excel, te recomendamos seguir la guía de instalación de Rtools para Windows.