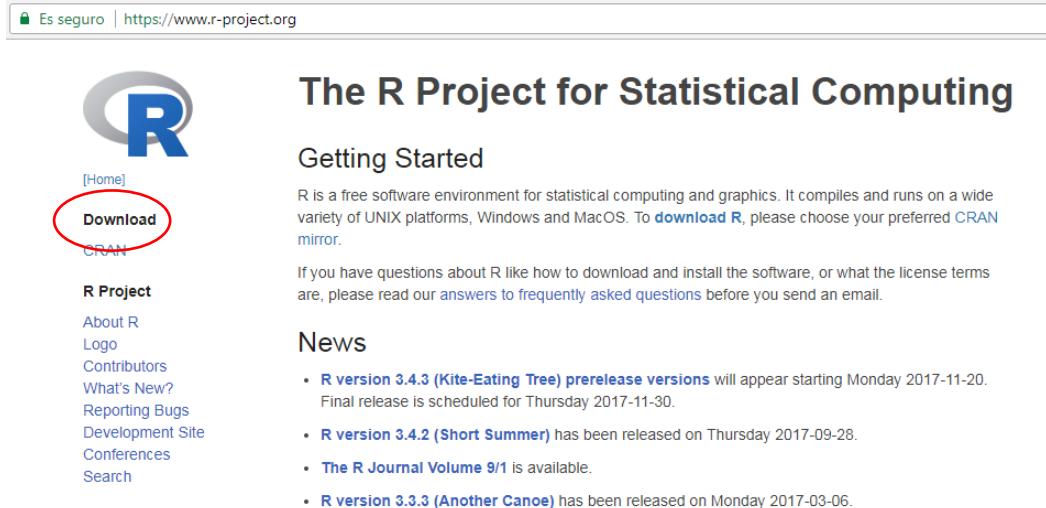


---

# 1 INSTALACIÓN DEL SOFTWARE R

- 1) Para instalar **R Commander** primero debemos instalar el software **R**. Para ello, visitar la página web:

[www.r-project.org](http://www.r-project.org)



Es seguro | <https://www.r-project.org>

## 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](#).

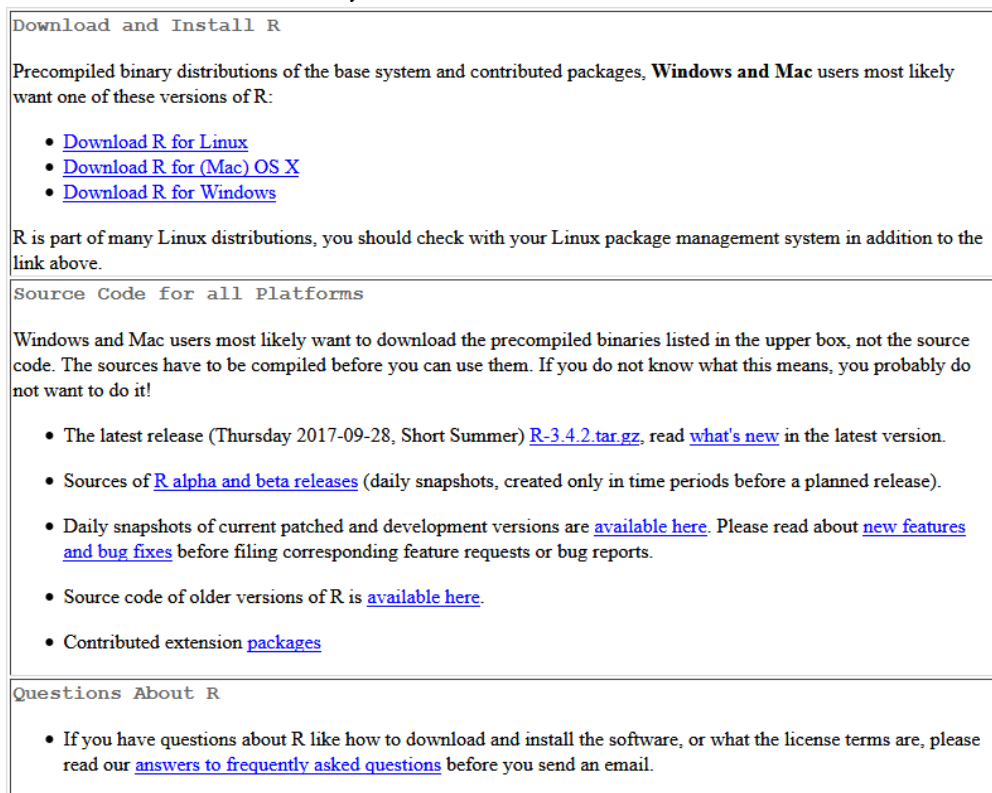
If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

### News

- [R version 3.4.3 \(Kite-Eating Tree\) prerelease versions](#) will appear starting Monday 2017-11-20. Final release is scheduled for Thursday 2017-11-30.
- [R version 3.4.2 \(Short Summer\)](#) has been released on Thursday 2017-09-28.
- [The R Journal Volume 9/1](#) is available.
- [R version 3.3.3 \(Another Canoe\)](#) has been released on Monday 2017-03-06.

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- 2) Clicar **Download – CRAN** y seleccionar el servidor 0-Cloud:



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.

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 (Thursday 2017-09-28, Short Summer) [R-3.4.2.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](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions 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 [answers to frequently asked questions](#) before you send an email.

- 3) Seleccionar el sistema operativo deseado: **Linux, Mac OS X, Windows**.

---

## 2 WINDOWS

- 4) Clicar en **install R for the first time**:

R for Windows

Subdirectories:

<a href="#">base</a>	Binaries for base distribution. This is what you want to <b>install R for the first time</b> .
<a href="#">contrib</a>	Binaries of contributed CRAN packages (for R $\geq$ 2.13.x; managed by Uwe Ligges). There is also information on <a href="#">third party software</a> available for CRAN Windows services and corresponding environment and make variables.
<a href="#">old contrib</a>	Binaries of contributed CRAN packages for outdated versions of R (for R $<$ 2.13.x; managed by Uwe Ligges).
<a href="#">Rtools</a>	Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

- 5) Descargar el fichero:

[Download R 3.4.2 for Windows](#) (75 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

- 6) Ir a la carpeta de descargas y ejecutar el fichero de instalación:

### R-3.4.2-win.exe

Seguir las instrucciones de instalación. Seleccionar la versión de 32:

32-bit Instalación del usuario	
<input checked="" type="checkbox"/> Core Files	72.7 MB
<input checked="" type="checkbox"/> 32-bit Files	45.7 MB
<input type="checkbox"/> 64-bit Files	46.9 MB
<input type="checkbox"/> Message translations	7.3 MB

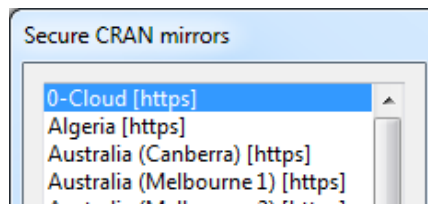
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## 3 R COMMANDER

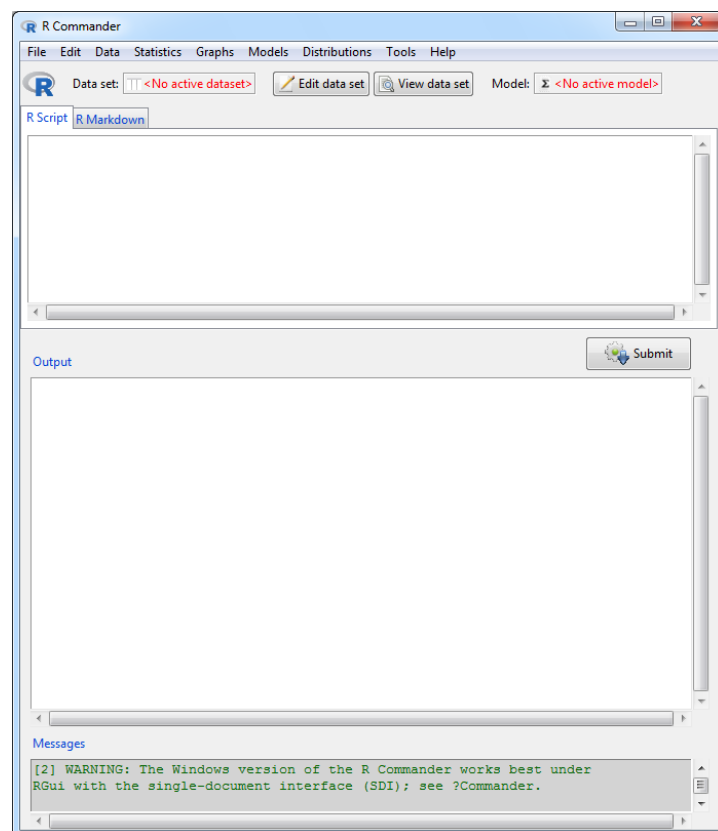
7) Abrir el programa **R** y escribir la siguiente instrucción:

```
install.packages("Rcmdr")  
library(Rcmdr)
```

En la ventana Secure CRAN mirrors seleccionar **0-Cloud**:



Se abrirá la Consola de **R Commander**:



Una vez instalados los dos programas, para acceder a **R Commander** solamente tendremos que abrir **R** y cargar la librería **Rcmdr**:

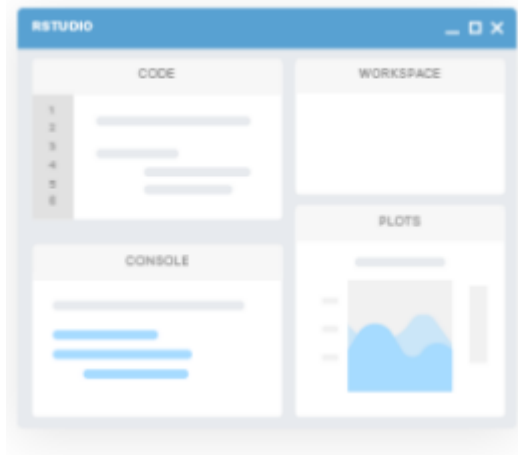
```
library(Rcmdr)
```

---

## 4 RSTUDIO

- 8) También es posible utilizar **R Commander** desde la plataforma **RStudio**. Para instalar **RStudio**, visitar la página web:

[www.rstudio.com](http://www.rstudio.com)



### RStudio

RStudio makes R easier to use. It includes a code editor, debugging & visualization tools.

[Download](#) [Learn More](#)

- 9) Clicar **RStudio Desktop Open Source Licence** y seleccionar el sistema operativo deseado:

#### Installers for Supported Platforms

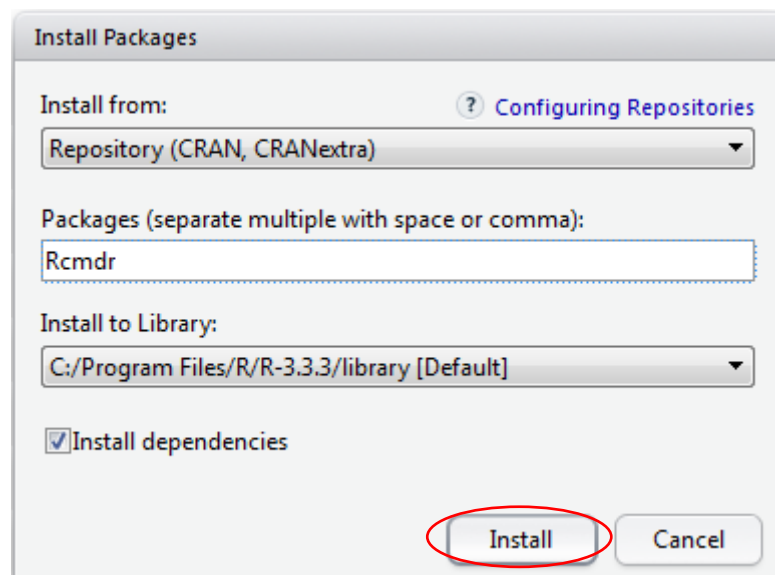
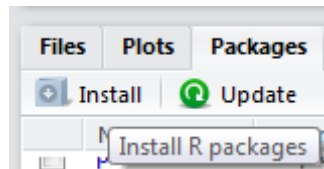
Installers	Size	Date
RStudio 1.1.385 - Windows Vista/7/8/10	85.8 MB	2017-10-09
RStudio 1.1.383 - Mac OS X 10.6+ (64-bit)	74.5 MB	2017-10-09
RStudio 1.1.383 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	89.2 MB	2017-10-09
RStudio 1.1.383 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	97.4 MB	2017-10-09
RStudio 1.1.383 - Ubuntu 16.04+/Debian 9+ (64-bit)	65 MB	2017-10-09
RStudio 1.1.383 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	88.1 MB	2017-10-09
RStudio 1.1.383 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	90.6 MB	2017-10-09

- 10) Tras descargar el fichero, ir a la carpeta de descargas y ejecutar el fichero de instalación.

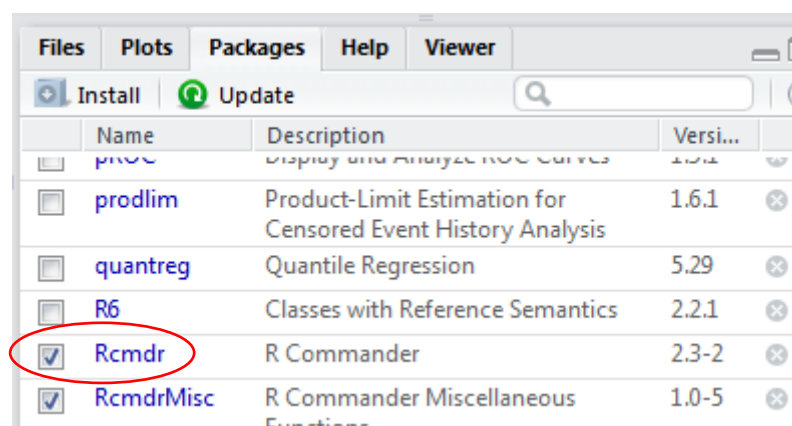
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## 5 R COMMANDER DESDE RSTUDIO

11) Abrir el programa **RStudio** e instalar el paquete **Rcmdr**:



A continuación activar el paquete **Rcmdr** desde la pestaña **Packages**:



Se abrirá la Consola de **R Commander**.

---

## 6 CARGAR PAQUETES

Al abrir el programa, se cargan una serie de paquetes para el análisis de los datos. Los paquetes son colecciones de funciones de **R**, datos, y código compilado en un formato definido. Algunos paquetes permiten añadir menús adicionales a la consola de **R Commander**.

Los paquetes adicionales que deben ser cargados para el correcto desarrollo del curso son: **foreign**, **Hmisc**.