

Installare R ed R studio

Antonio Calcagni

Claudio Zandonella Callegher

September 30, 2019

Contents

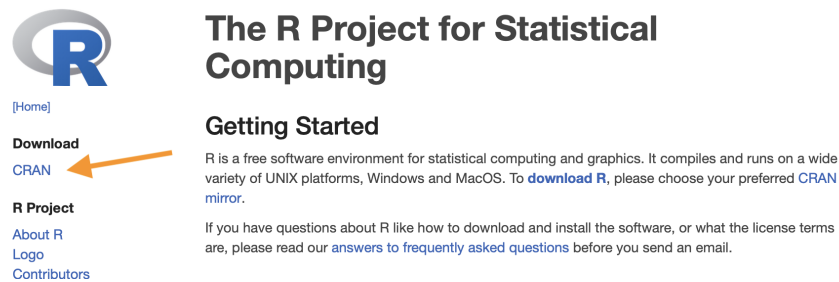
1	Installare R e R-studio	2
1.1	Installare R	2
1.1.1	R Windows	3
1.1.2	R MacOS	3
1.2	Installare R	4

1 Installare R e R-studio

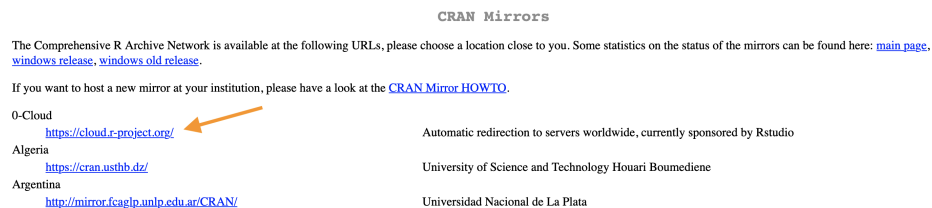
R ed R-studio sono due softwares distinti. R è un linguaggio di programmazione usato in particolare in ambiti quali la statistica. R-studio invece è un'interfaccia *user-friendly* che permette di utilizzare R. R può essere utilizzato autonomamente tuttavia è consigliato l'utilizzo attraverso R-studio. Entrambi vanno installati separatamente e la procedura varia a seconda del proprio sistema operativo (Windows, MacOS o Linux). Riportiamo le istruzioni solo per Windows e MacOS. Chi utilizza Linux sicuramente è autonomo nell'installazione dei due semplici programmi.

1.1 Installare R

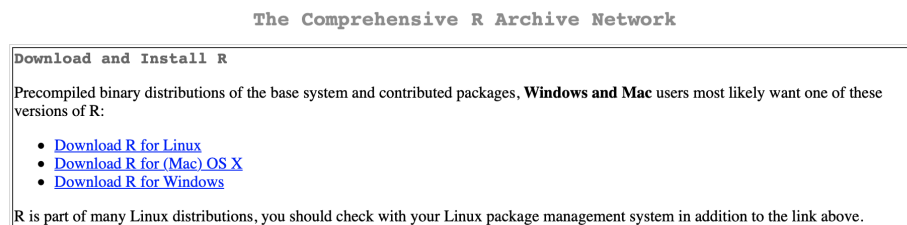
1. Accedere al sito <https://www.r-project.org>
2. Selezionare la voce **CRAN** (Comprehensive R Archive Network) dal menù di sinistra sotto **Download**



3. Selezionare il primo link <https://cloud.r-project.org/>



4. Selezionare il proprio sistema operativo



1.1.1 R Windows

- Selezionare la voce **base** dal menù di sinistra

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- [old.contrib](#) Binaries of contributed CRAN packages for outdated versions of R (for R 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.

Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

- Selezionare la voce **Download**

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.

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?](#)

- Al termine del download, eseguire il file e seguire le istruzioni fino al termine dell'installazione

1.1.2 R MacOS

- Selezionare la versione corretta a seconda della propria versione

Latest release:

[R-3.6.1.pkg](#)
MD5-hash: 279e662103dfe6a25b4573143cb995
SHA1-hash: 4e932f8e50138702d9179b54aac277f41657b0
(ca. 76MB) ←

[NEWS](#) (for Mac GUI)

[Mac-GUI-1.70.tar.gz](#)
MD5-hash: b1e5f2853464080a2296c9a880018

Note: Previous R versions for El Capitan can be found in the [el-capitan/base](#) directory.

[R-3.3.3.pkg](#)
MD5-hash: 933ba0f10303a666e19096a480011bf
SHA1-hash: 5ae71800b158059513b68c45972d51cc3d027
(ca. 71MB) ←

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.

Important: this release uses Clang 7.0.0 and GNU Fortran 6.1, neither of which is supplied by Apple. If you wish to compile R packages from sources, you will need to download and install those tools - see the [tools](#) directory.

News features and changes in the R app Mac GUI

Sources for the R app GUI 1.70 for Mac OS X. This file is only needed if you want to join the development of the GUI, it is not intended for regular users. Read the INSTALL file for further instructions.


Binaries for legacy OS X systems:

R 3.3.3 binary for Mac OS X 10.9 (Mavericks) and higher, signed package. Contains R 3.3.3 framework, R app GUI 1.69 in 64-bit for Intel Macs, Tcl/Tk 8.6.0 X11 libraries and Texinfo 5.2. The latter two components are optional and can be omitted when choosing "custom install", it is 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 OS X to a new major version.


- Al termine del download, eseguire il file e seguire le istruzioni fino al termine dell'installazione di R
- Successivamente è necessario installare anche una componente aggiuntiva **XQuartz** pre-mendo il link all'interno del riquadro arancione riportato nella figura precedente

- Selezionare la voce Download



The XQuartz project is an open-source effort to develop a version of the [X.Org X Window System](#) that runs on OS X. Together with supporting libraries and applications, it forms the X11.app that Apple shipped with OS X versions 10.5 through 10.7.

Quick Download

Download	Version	Released	Info
 XQuartz-2.7.11.dmg	2.7.11	2016-10-29	For OS X 10.6.3 or later

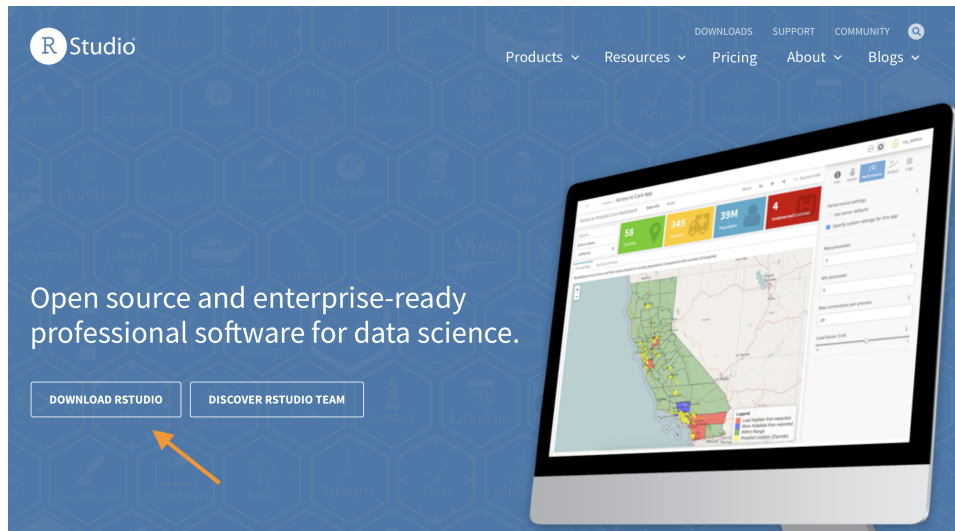
License Info

An XQuartz installation consists of many individual pieces of software which have various licenses. The X.Org software components' licenses are discussed on the [X.Org Foundation Licenses page](#). The [quartz-wm](#) window manager included with the XQuartz distribution uses the [Apple Public Source License Version 2](#).

- Al termine del download, eseguire il file e seguire le istruzioni fino al termine dell'installazione

1.2 Installare R

1. Accedere al sito <https://rstudio.com>
2. Selezionare la voce **Download RStudio**





The image shows the RStudio website homepage. The main heading is "Open source and enterprise-ready professional software for data science." Below this, there are two buttons: "DOWNLOAD RSTUDIO" and "DISCOVER RSTUDIO TEAM". An orange arrow points to the "DOWNLOAD RSTUDIO" button. On the right side, there is a large image of a laptop displaying a map of California with various data points.

3. Selezionare la versione gratuita di RStudio Desktop

	RStudio Desktop Open Source License Free	RStudio Desktop Commercial License \$995 /year	RStudio Server Open Source License Free	RStudio Server Pro Commercial License \$4,975 /year (5 Named Users)
	DOWNLOAD	BUY	DOWNLOAD	BUY
	Learn more	Learn more	Learn more	Evaluation Learn more
Integrated Tools for R	✓	✓	✓	✓
Priority Support		✓		✓
Access via Web Browser			✓	✓

4. Selezionare la versione corretta a seconda del proprio sistema operativo

Installers for Supported Platforms

Installers	Size	Date	MD5
RStudio 1.2.5001 - Ubuntu 18/Debian 10 (64-bit)	105.43 MB	2019-09-19	f108e4d5c1b6c19690378b3ca0990249
RStudio 1.2.5001 - Debian 9 (64-bit)	105.70 MB	2019-09-19	23dca12a5e0a0849522f05b4a8600ce8
RStudio 1.2.5001 - Fedora 28/Red Hat 8 (64-bit)	120.90 MB	2019-09-19	45eab0baf8d0504d183f09c8d40ae704
RStudio 1.2.5001 - macOS 10.12+ (64-bit) 	126.86 MB	2019-09-19	a4d8ee737818158b272450eaad4bdc4f
RStudio 1.2.5001 - SLES/OpenSUSE 12 (64-bit)	99.04 MB	2019-09-19	ca94a9bb7e7f5474eedd233ddeef14d6
RStudio 1.2.5001 - OpenSUSE 15 (64-bit)	107.12 MB	2019-09-19	2a40768fdc5c5f97cd1d40628bf8aaad
RStudio 1.2.5001 - Fedora 19/Red Hat 7 (64-bit)	120.27 MB	2019-09-19	14bc52d6f78bc4ee22abff2298be919f
RStudio 1.2.5001 - Ubuntu 14/Debian 8 (64-bit)	96.93 MB	2019-09-19	c19b0ece90130bed7248c1bf6001c647
RStudio 1.2.5001 - Windows 10/8/7 (64-bit) 	149.83 MB	2019-09-19	c54d8779f363ec9636c7831e577521bd
RStudio 1.2.5001 - Ubuntu 16 (64-bit)	104.88 MB	2019-09-19	4ff58a08c305207729feb65eb145a5a2

5. Al termine del download, eseguire il file e seguire le istruzioni fino al termine dell'installazione