

Installing R and RStudio

In this Video, we are going to take a look at...

- Getting set up with R and RStudio

Installing R



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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.

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 (Friday 2017-06-30, Single Candle) [R-3.4.1.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.

What are R and CRAN?

R is 'GNU S', a freely available language and environment for statistical computing and graphics which provides a wide variety of statistical and graphical techniques: linear and nonlinear modelling, statistical tests, time series analysis, classification, clustering, etc. Please consult the [R project homepage](#) for further information.

CRAN is a network of ftp and web servers around the world that store identical, up-to-date, versions of code and documentation for R. Please use the CRAN [mirror](#) nearest to you to minimize network load.

Submitting to CRAN

To "submit" a package to CRAN, check that your submission meets the [CRAN Repository Policy](#) and then use the [web form](#).

If this fails, upload to <ftp://CRAN.R-project.org/incoming/> and send an email to CRAN@R-project.org following the policy. Please do not attach submissions to emails, because this will clutter up the mailboxes of half a dozen people.

Note that we generally do not accept submissions of precompiled binaries due to security reasons. All binary distribution listed above are compiled by selected maintainers, who are in charge for all binaries of their platform, respectively.



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<https://cran.r-project.org>



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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 3.4.1 "Single Candle" released on 2017/06/07

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. Please 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-3.4.1.pkg
in the *Terminal* application to print the MD5 checksum for the R-3.4.1.pkg image. On Mac OS X 10.7 and later you can also validate the signature using
pkgutil --check-signature R-3.4.1.pkg

Files:

[R-3.4.1.pkg](#)
MD5-hash: 92126672ca1e9d8cc28fc3259c5c67be
SHA1-hash: 4138852c0f2a205f6c648d88669bc7d8a514b762
(ca. 61MB)

R 3.4.1 binary for OS X 10.11 (El Capitan) and higher, signed package. Contains R 3.4.1 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 OS X to a new major version.

Important: this release uses Clang 4.0.0 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.

[R-3.3.3.pkg](#)
MD5-hash: 897ba010c303e66e1906e4800e17bf
SHA1-hash: 5ae719000b15805945f58c08e45972d51cc3d027
(ca. 71MB)

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.

[R-3.2.1-snowleopard.pkg](#)
MD5-hash: 586f9801314d9cb750780cc78914085
SHA1-hash: be6e91db12bac22a3248bcb51c7cfa9063eeef80
(ca. 68MB)

R 3.2.1 legacy binary for Mac OS X 10.6 (Snow Leopard) - 10.8 (Mountain Lion), signed package. Contains R 3.2.1 framework, R.app GUI 1.66 in 64-bit for Intel Macs.

This package contains the R framework, 64-bit GUI (R.app), Tcl/Tk 8.6.0 X11 libraries and Texinfo 5.2. GNU Fortran is **NOT** included (needed if you want to compile packages from sources that contain FORTRAN code) please see [the tools directory](#).
NOTE: the binary support for OS X before Mavericks is being phased out, we do not expect further releases!

[Mac-GUI-1.69.tar.gz](#)
MD5-hash: 12f6d1b32004caa94dc63193e3770e601

Sources for the R.app GUI 1.69 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.

[NEWS](#) (for Mac GUI)

News features and changes in the R.app Mac GUI

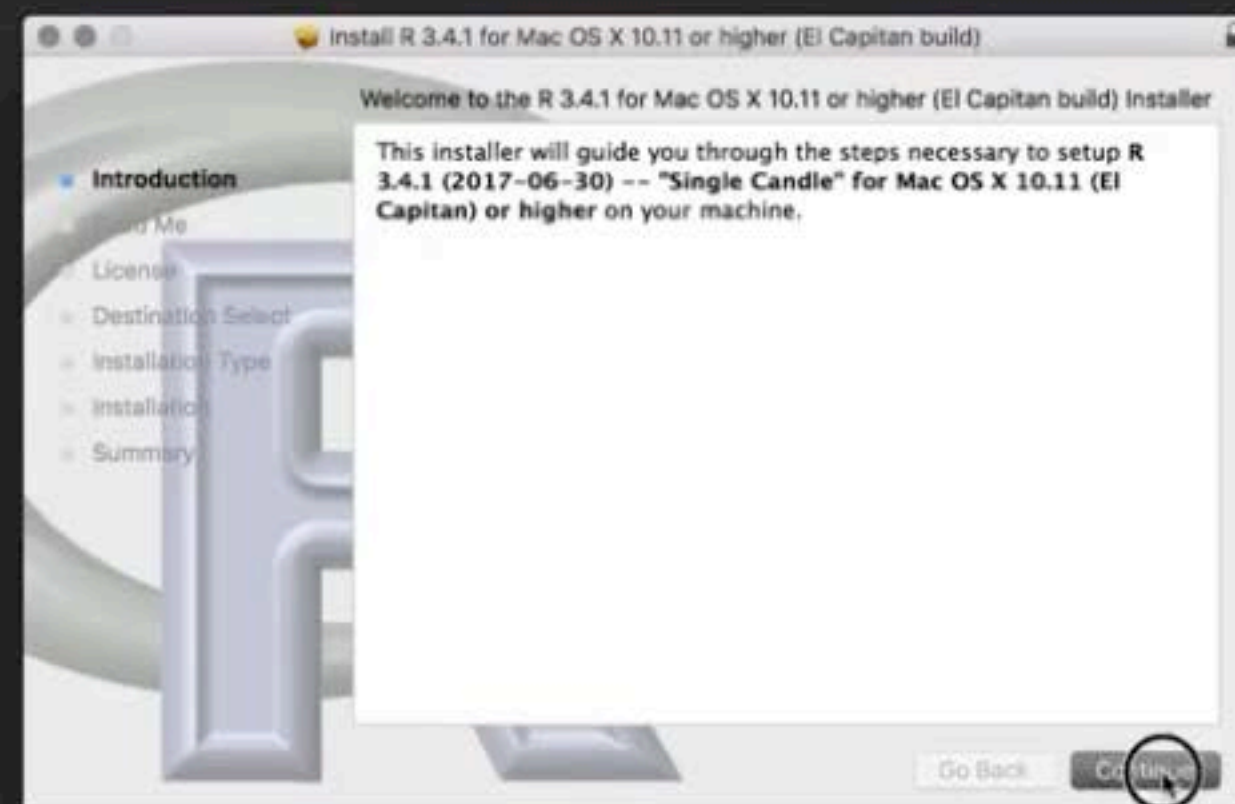
The new R.app Cocoa GUI has been written by Simon Urbanek and Stefano Iacus with contributions from many developers and translators world-wide, see "About R" in the GUI.

Subdirectories:

[tools](#)

Additional tools necessary for building R for Mac OS X:
Universal GNU Fortran compiler for Mac OS X (see [R for Mac tools page](#) for details).







Installing RStudio

RStudio

Open source and enterprise-ready
professional software for R

[Download RStudio](#)
[Discover Shiny](#)


RStudio

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

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


Shiny

Shiny helps you make interactive web applications for visualizing data. Bring R data analysis to life.

[Learn More](#)


R Packages

Our developers create popular packages to expand the features of R. Includes ggplot2, dplyr, R Markdown & more.

[Learn More](#)



RStudio Desktop

	Open Source Edition	Commercial License
Overview	<ul style="list-style-type: none">• 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	<p>All of the features of open source; plus:</p> <ul style="list-style-type: none">• A commercial license for organizations not able to use AGPL software• Access to priority support
Support	Community forums only	<ul style="list-style-type: none">• 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

RStudio Server

Open Source Edition	Commercial License
<ul style="list-style-type: none"> Access via a web browser 	All of the features of open source; plus:

Have Questions?

[TALK TO THE SALES TEAM](#)

RStudio Desktop 1.0.143 — Release Notes

RStudio requires R 2.11.1+. If you don't already have R, download it [here](#).

Installers for Supported Platforms

Installers	Size	Date	MD5
RStudio 1.0.143 - Windows Vista/7/8/10	81.9 MB	2017-04-19	76bb84296b9202759b3eb1de555a2231
RStudio 1.0.143 - Mac OS X 10.6+ (64-bit)	71.2 MB	2017-04-19	c7f1ed865428b225b202fd1b431954b4
RStudio 1.0.143 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	85.5 MB	2017-04-19	21ca14bffc1a2361ead2d763d0313d
RStudio 1.0.143 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	92.1 MB	2017-04-19	75761eae209158d8415d562b3771fbec
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	84.7 MB	2017-04-19	2c356d4ee50667ad4042ee196afb3c53
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	85.7 MB	2017-04-19	7ab5fc240351debe491c6c5a7acb6068

Zip/Tarballs

Zip/tar archives	Size	Date	MD5
RStudio 1.0.143 - Windows Vista/7/8/10	117.6 MB	2017-04-19	24ae8674ba0cc0c5310c8172f2e5f12e
RStudio 1.0.143 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	86.2 MB	2017-04-19	c4444d8159463b8e7a950ba4fe7150e0
RStudio 1.0.143 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	93.2 MB	2017-04-19	c92ecfdb80432a6532c823a22630918b
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	85.4 MB	2017-04-19	197280b1c10edae0bacf898a14d9a58f
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	86.6 MB	2017-04-19	04afcc818259577c188097955336cae2

Source Code

A tarball containing source code for RStudio v1.0.143 can be downloaded from [here](#)

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RStudio 1.0.143 - Mac OS X 10.6+ (64-bit)	71.2 MB	2017-04-19	c7f1ed865428b225b202fd1b431954b4
RStudio 1.0.143 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	85.5 MB	2017-04-19	21ca14bffcdbc1a236lead2d763d0313d
RStudio 1.0.143 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	92.1 MB	2017-04-19	75761eae209158d8415d562b3771fbec
RStudio 1.0.143 - Fedora 19+/Redhat 7+/openSUSE 13.1+ (32-bit)	84.7 MB	2017-04-19	2c356d4ee50667ad4042ee196afb3c53
RStudio 1.0.143 - Fedora 19+/Redhat 7+/openSUSE 13.1+ (64-bit)	85.7 MB	2017-04-19	7ab5fc240351debe491c6c5a7acb6068



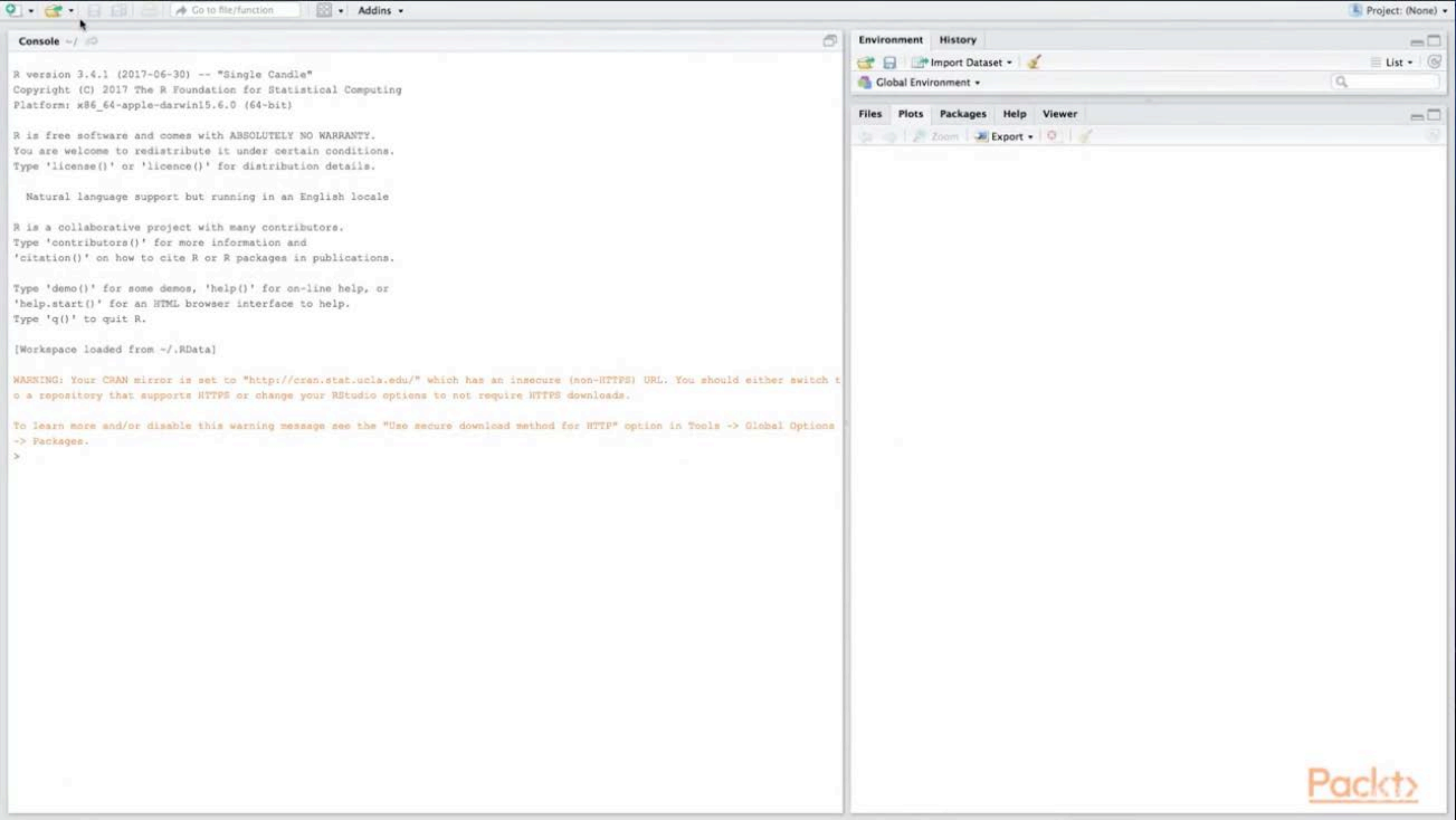
RStudio 1.0.143 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	93.2 MB	2017-04-19	c92ecfdb80432a65320823a22630918b
RStudio 1.0.143 - Fedora 19+/Redhat 7+/openSUSE 13.1+ (32-bit)	85.4 MB	2017-04-19	197280b1c10edae0bacf898a14d9a58f
RStudio 1.0.143 - Fedora 19+/Redhat 7+/openSUSE 13.1+ (64-bit)	86.6 MB	2017-04-19	04afce818259577c188097955336cae2

Source Code

A tarball containing source code for RStudio v1.0.143 can be downloaded from [here](#)

- Macintosh HD
- RStudio-1.0.143
- Data
- twentyseven
n





Console ~/

```
R version 3.4.1 (2017-06-30) -- "Single Candle"
Copyright (C) 2017 The R Foundation for Statistical Computing
Platform: x86_64-apple-darwin15.6.0 (64-bit)

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.

[Workspace loaded from ~/.RData]

WARNING: Your CRAN mirror is set to "http://cran.stat.ucla.edu/" which has an insecure (non-HTTPS) URL. You should either switch to a repository that supports HTTPS or change your RStudio options to not require HTTPS downloads.

To learn more and/or disable this warning message see the "Use secure download method for HTTP" option in Tools -> Global Options -> Packages.
>
```

Environment

History

Import Dataset

Global Environment

Files

Plots

Packages

Help

Viewer

Zoom

Export

Untitled1*

Source on Save

Run

Source

1

a = 1

2

b = 2

1:1

(Top Level)

R Script

Console

~/Documents/RCourse/

Type 'demo()' for some demos, 'help()' for on-line help, or
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Type 'q()' to quit R.

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```
> setwd("~/Documents/RCourse")
> a = 1
> b = 2
> a + b
[1] 3
>
```

Environment

History

Import Dataset

List

Global Environment

Values

a	1
b	2

Files

Plots

Packages

Help

Viewer

New Folder

Delete

Rename

More

Home

Documents

RCourse

Name	Size	Modified
.Rhistory	19.7 KB	Jul 5, 2017, 12:43 AM
1.1_WS_Draft.pptx	7.5 MB	Jul 10, 2017, 10:37 PM
1.2_WS_Draft.pptx	16.6 MB	Jul 10, 2017, 11:12 PM
1.3_WS_Draft.pptx	16.8 MB	Jul 10, 2017, 11:30 PM
1.4_WS_Draft.pptx	72.5 KB	Jul 11, 2017, 11:47 AM
1.5_WS_Draft.pptx	72.6 KB	Jul 11, 2017, 11:55 AM
1_WS_Draft.pptx	24.3 MB	Jul 7, 2017, 4:23 PM
2.1_WS_Draft copy.pptx	1.1 MB	Jun 11, 2017, 8:19 PM
2_WS_Draft.pptx	1.2 MB	Jul 11, 2017, 11:59 AM
2_WS_Draft_dashboard.R	660 B	May 25, 2017, 11:19 PM
2_WS_Draft_googleAnalyticsR.R	1.1 KB	Jul 5, 2017, 12:42 AM
old		
old_v2		
StockPhoto		
TestFolderScripts		
Video_Template		
~\$1.4_WS_Draft.pptx	165 B	Jun 11, 2017, 9:49 PM
~\$1.5_WS_Draft.pptx	165 B	Jun 7, 2017, 11:04 AM
~\$1.8_WS_Draft.pptx	165 B	Jul 1, 2017, 9:38 PM