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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](#)

Choice depends on your operating system

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.



R for Windows



Subdirectories:

[base](#)

Binaries for base distribution (managed by Duncan Murdoch). This is what you want to [install R for the first time](#).

[contrib](#)

Binaries of contributed CRAN packages (for R \geq 2.11.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Binaries of contributed CRAN packages for outdated versions of R (for R $<$ 2.11.x; managed by Uwe Ligges).

[Rtools](#)

Tools to build R and R packages (managed by Duncan Murdoch). 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 Duncan Murdoch or 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.

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R-3.4.1 for Windows (32/64 bit)



[Download R 3.4.1 for Windows](#) (75 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?](#)

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 <http://<CRAN MIRROR>/bin/windows/base/release.htm>.

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

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R-3.4.1-win.exe



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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?](#)

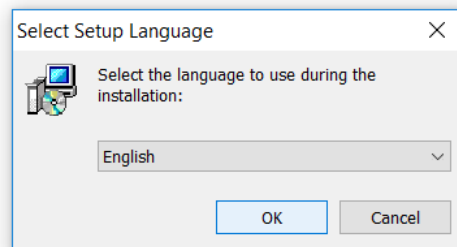
Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

- Patches to this release are incorporated in the [r-patched snapshot build](#).
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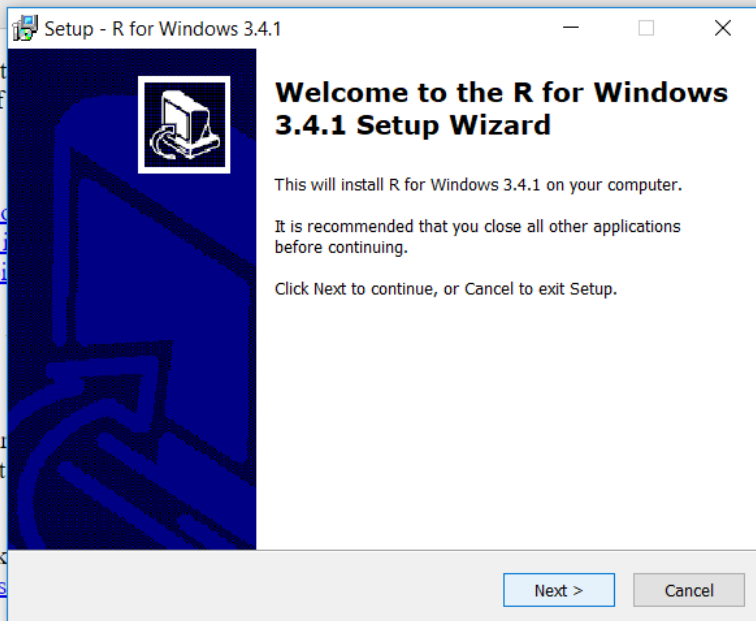
If you want to double-check that the file is the same as on the CRAN server. You will need a version of

- [Does R run under my version of Windows?](#)
- [How do I update packages?](#)
- [Should I run 32-bit or 64-bit?](#)

Please see the [R FAQ](#) for general

- Patches to this release are in
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Note to webmasters: A stable link to the R 3.4.1 binaries is [<CRAN MIRROR>/bin/windows](#)



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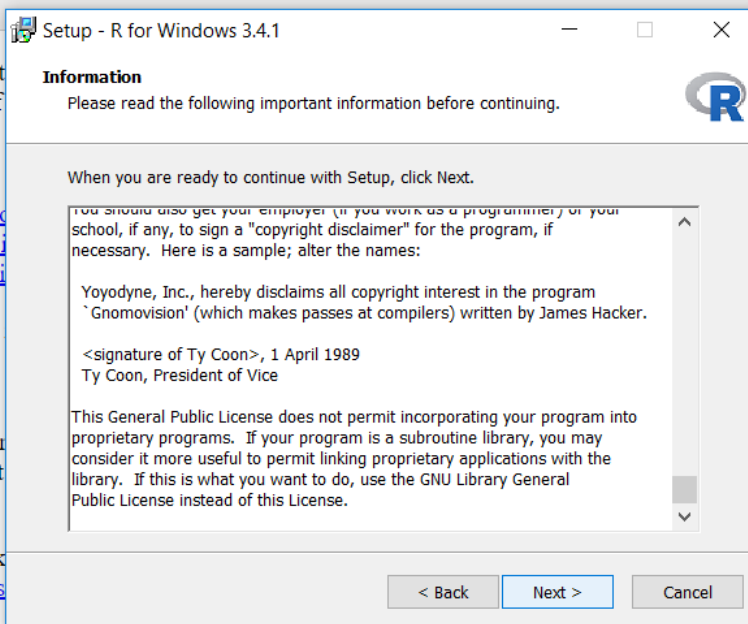
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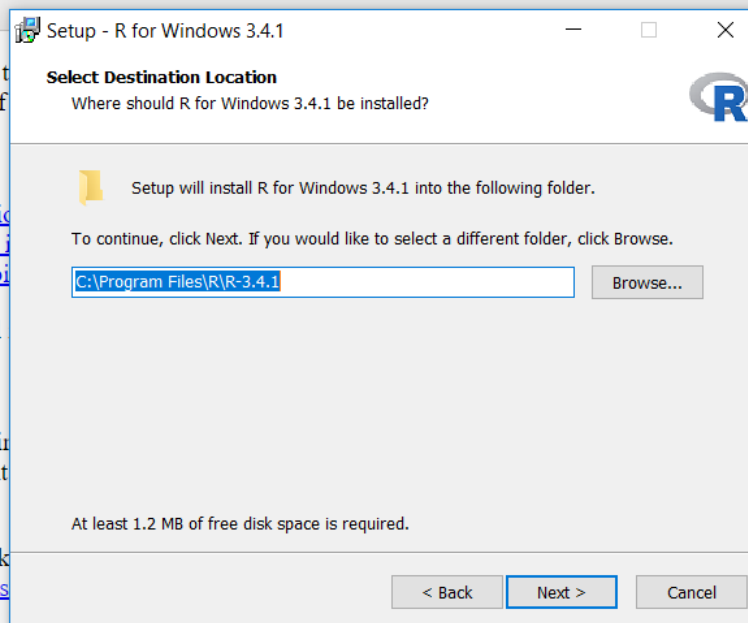
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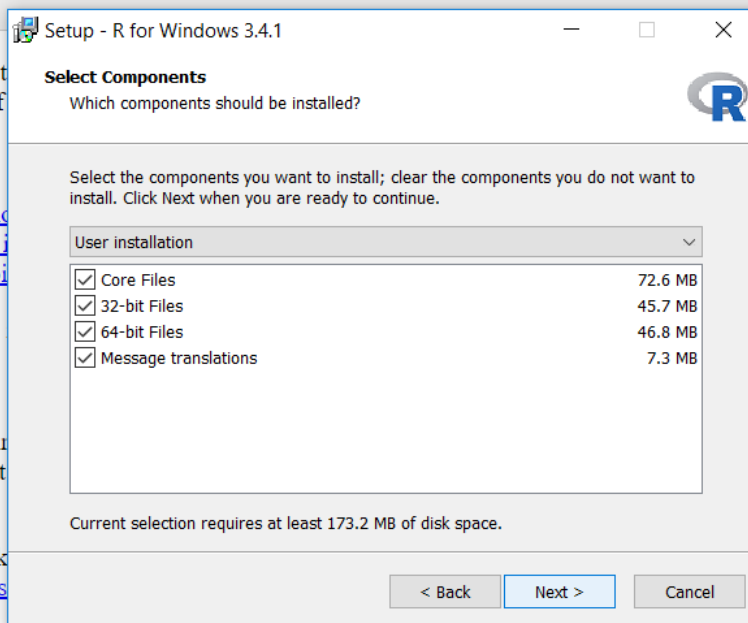
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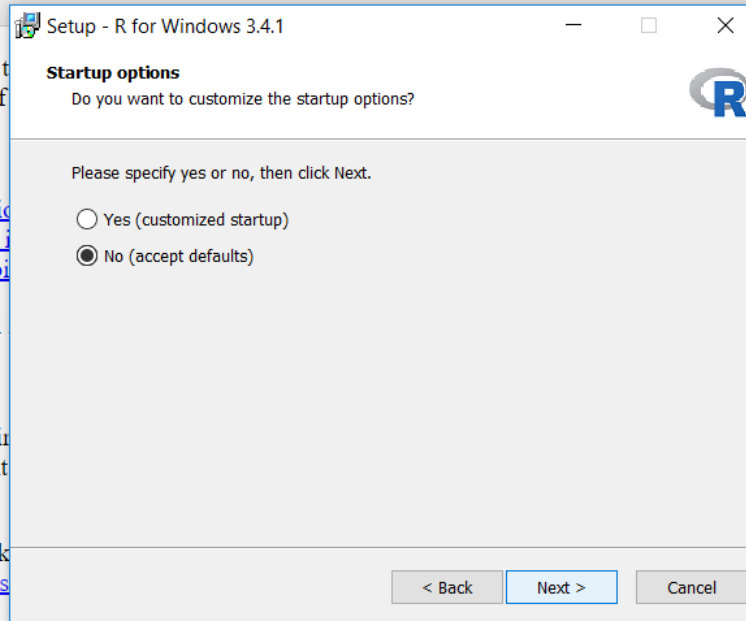
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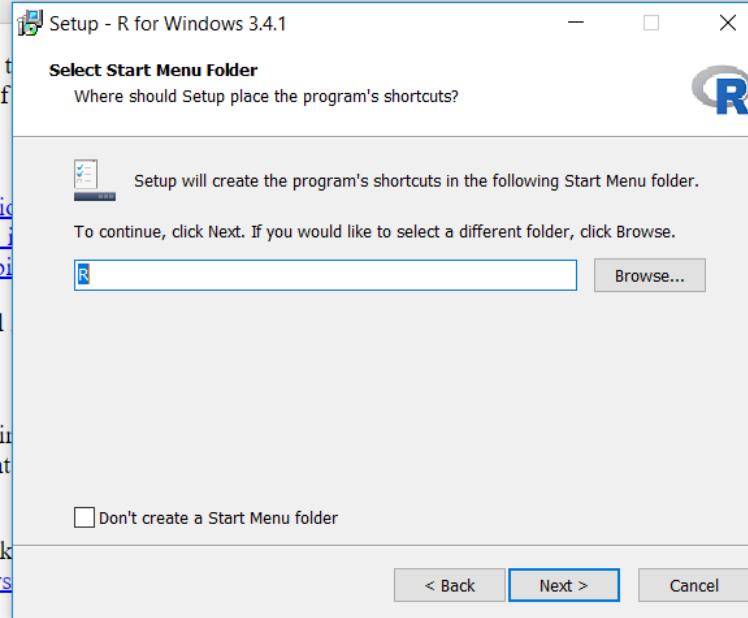
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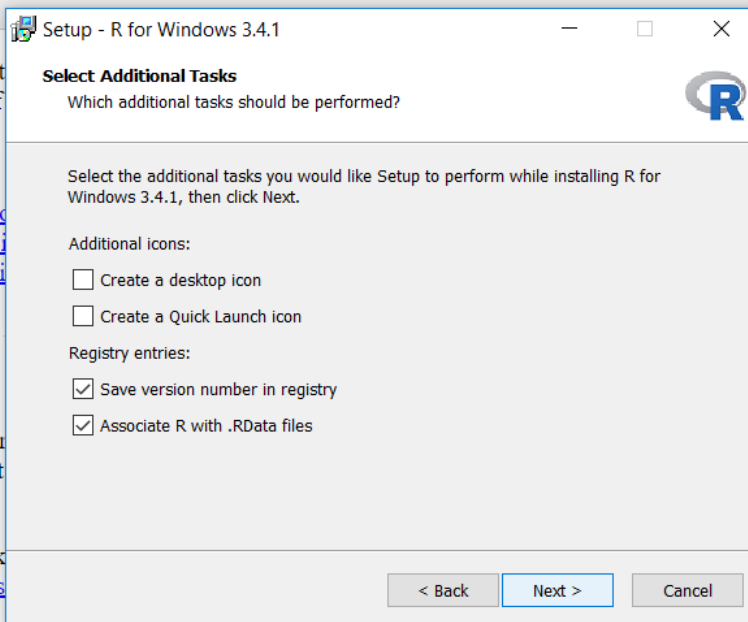
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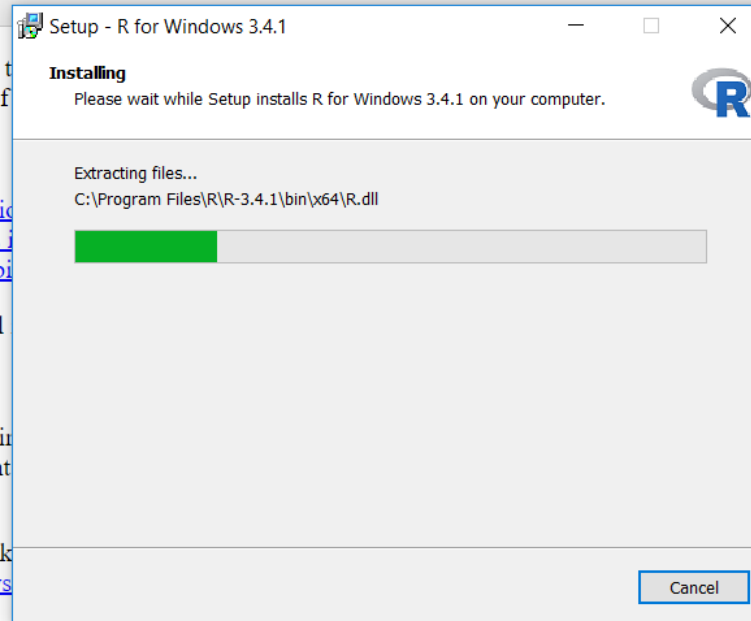
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Note to webmasters: A stable link to the R source code is [<CRAN MIRROR>/bin/windows](#)



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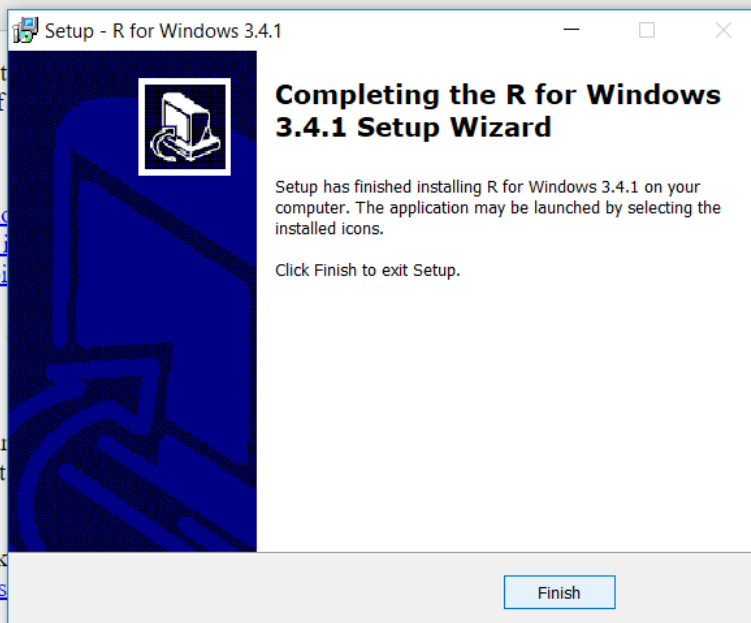
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Note to webmasters: A stable link is <http://<CRAN MIRROR>/bin/windows/32/64/R341.exe>



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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.

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\$995 per year

BUY

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RStudio Server
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RStudio Connect
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year

TALK

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Integrated
Tools for R



Priority
Support



RStudio Desktop 1.0.153 — 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 1.0.153 - 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/Tarballs

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	2077c181311d1aad6fb8d435f8f1f45f
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	85.4 MB	2017-07-20	92e1a22d14952273ec389e5a55be614f
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	86.6 MB	2017-07-20	0b71c5a7fc53c84b3fe67242240b3531

Source Code

A tarball containing source code for RStudio v1.0.153 can be downloaded from [here](#)

Choice depends on
your operating
system

RStudio Desktop 1.0.153 — Release Notes

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

Installers for Supported Platforms

Windows users

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/Tarballs

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	2077c181311d1aad6fb8d435f8f1f45f
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	85.4 MB	2017-07-20	92e1a22d14952273ec389e5a55be614f
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	86.6 MB	2017-07-20	0b71c5a7fc53c84b3fe67242240b3531

Source Code

A tarball containing source code for RStudio v1.0.153 can be downloaded from [here](#)

RStudio Desktop 1.0.153 — 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 1.0.153 - 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/Tarballs

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	2077c181311d1aad6fb8d435f8f1f45f
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	85.4 MB	2017-07-20	92e1a22d14952273ec389e5a55be614f
RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	86.6 MB	2017-07-20	0b71c5a7fc53c84b3fe67242240b3531

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<https://download1.rstudio.org/RStudio-1.0.153.exe>



RStudio Desktop 1.0.153 — Release Notes

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Installers for Supported Platforms

Installers

RStudio 1.0.153 - Windows Vista/7/8/10
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RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 7+ (64-bit)
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RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)

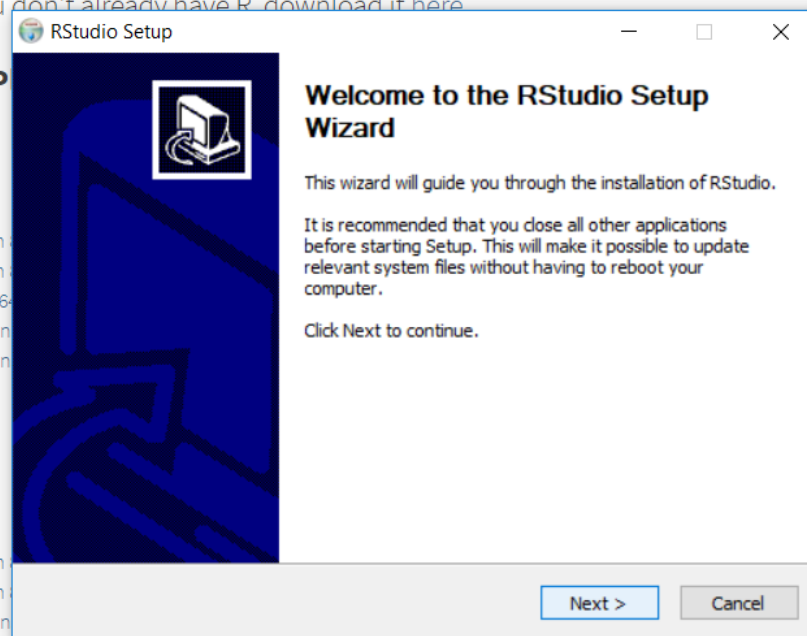
Zip/Tarballs

Zip/tar archives

RStudio 1.0.153 - Windows Vista/7/8/10
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 7+ (64-bit)
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 9+ (64-bit)
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ad6fb8d435f8f1f45f
73ec389e5a55be614f
0b71c5a7fc53c84b3fe67242240b3531

RStudio Desktop 1.0.153 — Release Notes

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RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 7

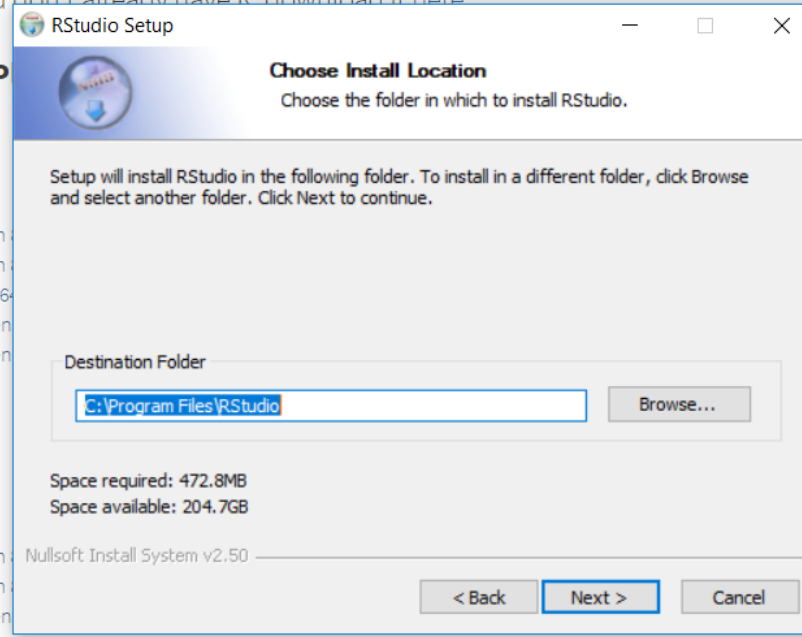
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8

RStudio 1.0.153 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)

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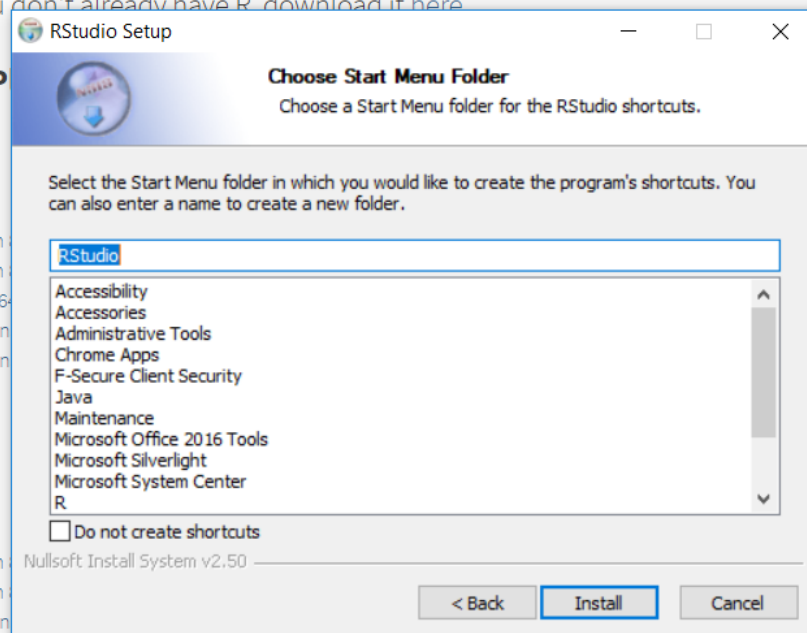
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524f9e2477facd346
ad6fb8d435f8f1f45f
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Zip/Tarballs

Zip/tar archives

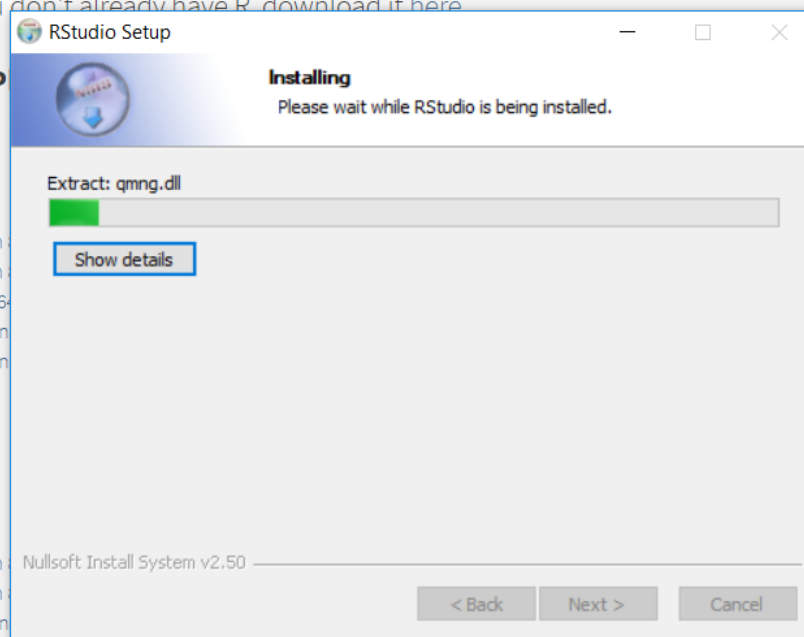
RStudio 1.0.153 - Windows Vista/7/8/10

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86.6 MB

2017-07-20

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RStudio Desktop 1.0.153 — Release Notes

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Zip/Tarballs

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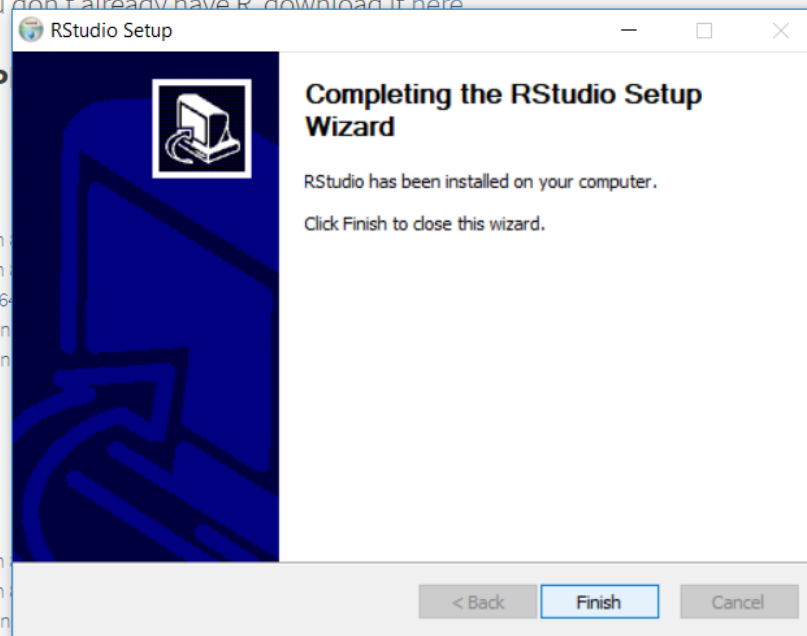
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5524f9e2477facd346

ad6fb8d435f8f1f45f

73ec389e5a55be614f

0b71c5a7fc53c84b3fe67242240b3531

Source Code

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You're ready to open RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Console Terminal x
~/R_Users_Workshop/PG_module/course_notes/R-A_Hitchhikers_Guide_to_Reproducible_Research/Pre-workshop/

```
R version 3.6.1 (2019-07-05) -- "Action of the Toes"  
Copyright (C) 2019 The R Foundation for Statistical Computing  
Platform: x86_64-w64-mingw32/x64 (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.
```

```
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.
```

```
> |
```

2

Pre-workshop

Environment History Connections Git

Import Dataset

Global Environment

Name	Type	Length	Size	Value
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Environment is empty

Files Plots Packages Help Viewer

New Folder Delete Rename More

workshop > PG_module > course_notes > R-A_Hitchhikers_Guide_to_Reproducible_Research > Pre-workshop

Name	Size	Modified
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..		
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docs		
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plots		
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README.md	686 B	Dec 2, 2019, 1:24 PM
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scripts		
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testing_testing.Rproj	218 B	Dec 2, 2019, 2:03 PM
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3

1

Run the test script

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

```
test_script.R x
Source on Save
1 # Install the packages you'll require for the workshop
2
3 install.packages(c('tidyverse', 'cowplot', 'datapasta', 'janitor',
4                   'igraph', 'installr', 'knitr', 'kableExtra', 'MASS',
5                   'plotly', 'patchwork', 'reprex', 'summarytools'))
6
7 library(tidyverse)
8
9 # Does this work on your system? -----
10
11 nutrient_names <- c(G = "Glucose", L = "Leucine", P = "Phosphate",
12                   S = "Sulfate", N = "Ammonia", U = "Uracil")
13
14 # Create an object that is the weblink to the data
15
16 url <- "http://varianceexplained.org/files/Brauer2008_DataSet1.tds"
17
18 # Some example R code we'll see again during the workshop
19 # Here we're reading in data from a remote source and cleaning it
20
```



Environment History Connections Git

Import Dataset

Global Environment

Name	Type	Length	Size	Value
------	------	--------	------	-------

Environment is empty

Files Plots Packages Help Viewer

New Folder Delete Rename More

PG_module > course_notes > R-A_Hitchhikers_Guide_to_Reproducible_Research > Pre-workshop > scripts

Name	Size	Modified
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test_script.R	1.6 KB	Dec 2, 2019, 1:32 PM
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Console Terminal

~/R_Users_Workshop/PG_module/course_notes/R-A_Hitchhikers_Guide_to_Reproducible_Research/Pre-workshop/

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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.

> |

This is what you should now see

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

```
test_script.R x
Source on Save
31
32 gather(sample, expression, G0.05:U0.3) %>%
33 separate(sample, c("nutrient", "rate"), sep = 1, convert = TRUE) %>%
34 mutate(nutrient = plyr::revalue(nutrient, nutrient_names)) %>%
35 filter(!is.na(expression), systematic_name != "")
36
37
38 # Plot the clean data
39
40 cleaned_genes_tbl %>%
41
42 filter(BP == "leucine biosynthesis") %>%
43
44 ggplot(mapping = aes(x = rate, y = expression, color = nutrient)) +
45   geom_point() +
46   geom_smooth(method = "lm", se = FALSE) +
47   facet_wrap(~ name)
48
49
49:21 Does this work on your system? R Script
```

Console Terminal

```
~/R_Users_Workshop/PG_module/course_notes/R-A_Hitchhikers_Guide_to_Reproducible_Research/Pre-workshop/
```

```
GID = col_character(),
YORF = col_character(),
NAME = col_character()
)
See spec(...) for full column specifications.
> cleaned_genes_tbl %>%
+
+ filter(BP == "leucine biosynthesis") %>%
+
+ ggplot(mapping = aes(x = rate, y = expression, color = nutrient)) +
+   geom_point() +
+   geom_smooth(method = "lm", se = FALSE) +
+   facet_wrap(~ name)
>
```

