

Environment Setup

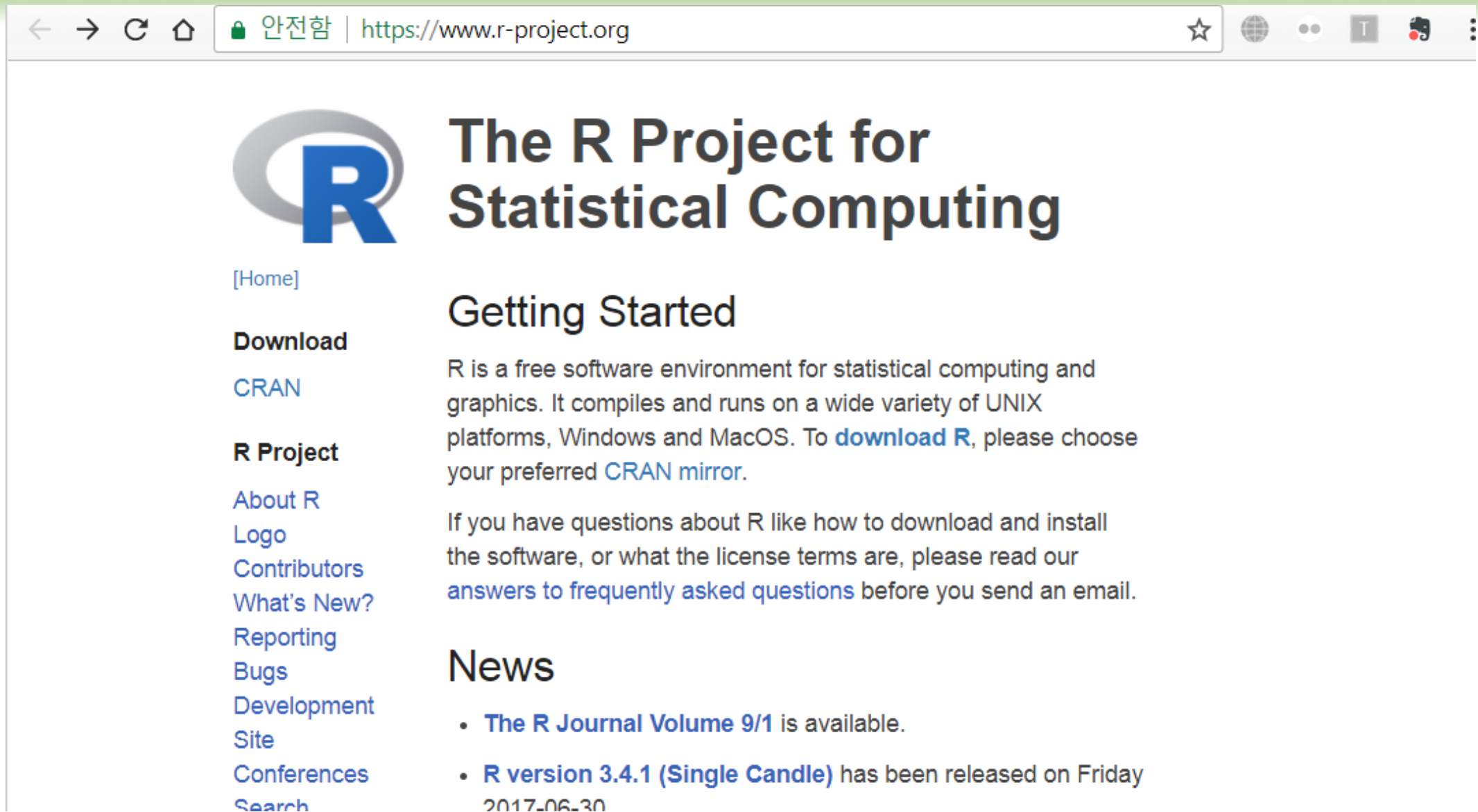


Bok, Jong Soon
javaexpert@nate.com
<https://github.com/swacademy/R>




Installation

R Software Download (Cont.)



The screenshot shows the R Project website in a web browser. The browser's address bar displays the URL <https://www.r-project.org>. The website features the R logo on the left, followed by the title "The R Project for Statistical Computing". Below the title, there is a "Getting Started" section with a paragraph about R being a free software environment for statistical computing and graphics, available on various platforms. A sidebar on the left contains links for "Download", "CRAN", "R Project", "About R", "Logo", "Contributors", "What's New?", "Reporting", "Bugs", "Development", "Site", "Conferences", and "Search". The "News" section on the right lists two items: "The R Journal Volume 9/1 is available." and "R version 3.4.1 (Single Candle) has been released on Friday 2017-06-30".

← → ↻ 🏠 🔒 안전함 | <https://www.r-project.org> ☆ 🌐 👤 T 🐙 ⋮



The R Project for Statistical Computing

[\[Home\]](#)

Download

[CRAN](#)

R Project

[About R](#)

[Logo](#)

[Contributors](#)

[What's New?](#)

[Reporting](#)

[Bugs](#)

[Development](#)

[Site](#)

[Conferences](#)

[Search](#)

Getting Started

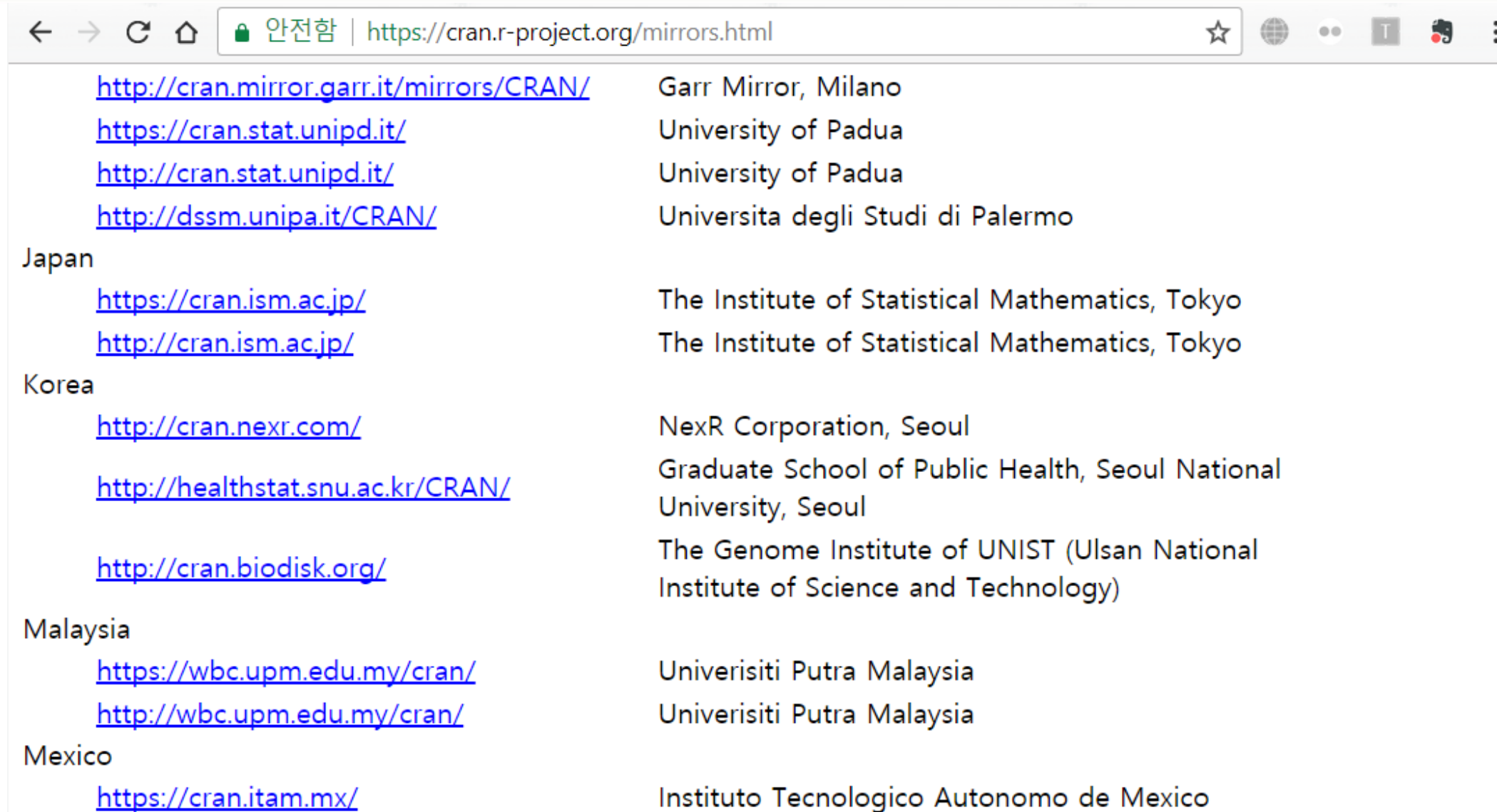
R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To [download R](#), please choose your preferred [CRAN mirror](#).

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 Software Download (Cont.)

	
http://cran.mirror.garr.it/mirrors/CRAN/	Garr Mirror, Milano
https://cran.stat.unipd.it/	University of Padua
http://cran.stat.unipd.it/	University of Padua
http://dssm.unipa.it/CRAN/	Universita degli Studi di Palermo
Japan	
https://cran.ism.ac.jp/	The Institute of Statistical Mathematics, Tokyo
http://cran.ism.ac.jp/	The Institute of Statistical Mathematics, Tokyo
Korea	
http://cran.nexr.com/	NexR Corporation, Seoul
http://healthstat.snu.ac.kr/CRAN/	Graduate School of Public Health, Seoul National University, Seoul
http://cran.biodisk.org/	The Genome Institute of UNIST (Ulsan National Institute of Science and Technology)
Malaysia	
https://wbc.upm.edu.my/cran/	Univerisiti Putra Malaysia
http://wbc.upm.edu.my/cran/	Univerisiti Putra Malaysia
Mexico	
https://cran.itam.mx/	Instituto Tecnologico Autonomo de Mexico


R Software Download (Cont.)



The screenshot shows a web browser window with the address bar displaying `cran.biodisk.org`. The page title is "The Comprehensive R Archive Network". On the left, there is a sidebar with the R logo and a list of links: [CRAN](#), [Mirrors](#), [What's new?](#), [Task Views](#), [Search](#), [About R](#), [R Homepage](#), [The R Journal](#), [Software](#), [R Sources](#), [R Binaries](#), [Packages](#), and [Other](#). The main content area is titled "Download and Install R" and contains the following text: "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 text is a bulleted list of links: [Download R for Linux](#), [Download R for \(Mac\) OS X](#), and [Download R for Windows](#). Further down, it states: "R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above." Below this is a section titled "Source Code for all Platforms" with the text: "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!"

← → ↻ 🏠 ⓘ cran.biodisk.org ☆ 🌐 ⚙️ T 🐼 ⋮

The Comprehensive R Archive Network



CRAN
[Mirrors](#)
[What's new?](#)
[Task Views](#)
[Search](#)

About R
[R Homepage](#)
[The R Journal](#)

Software
[R Sources](#)
[R Binaries](#)
[Packages](#)
[Other](#)

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:

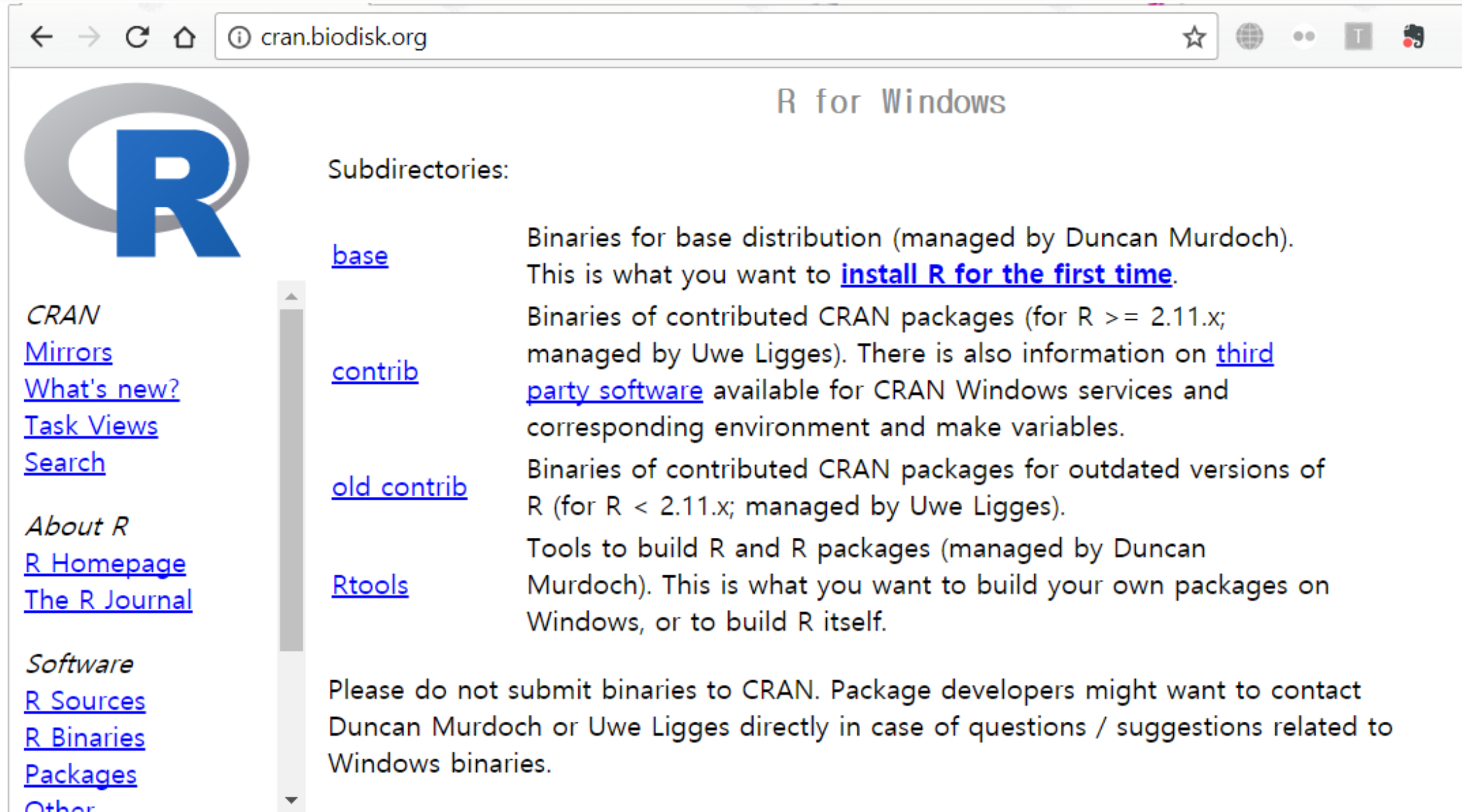
- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

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!

R Software Download (Cont.)

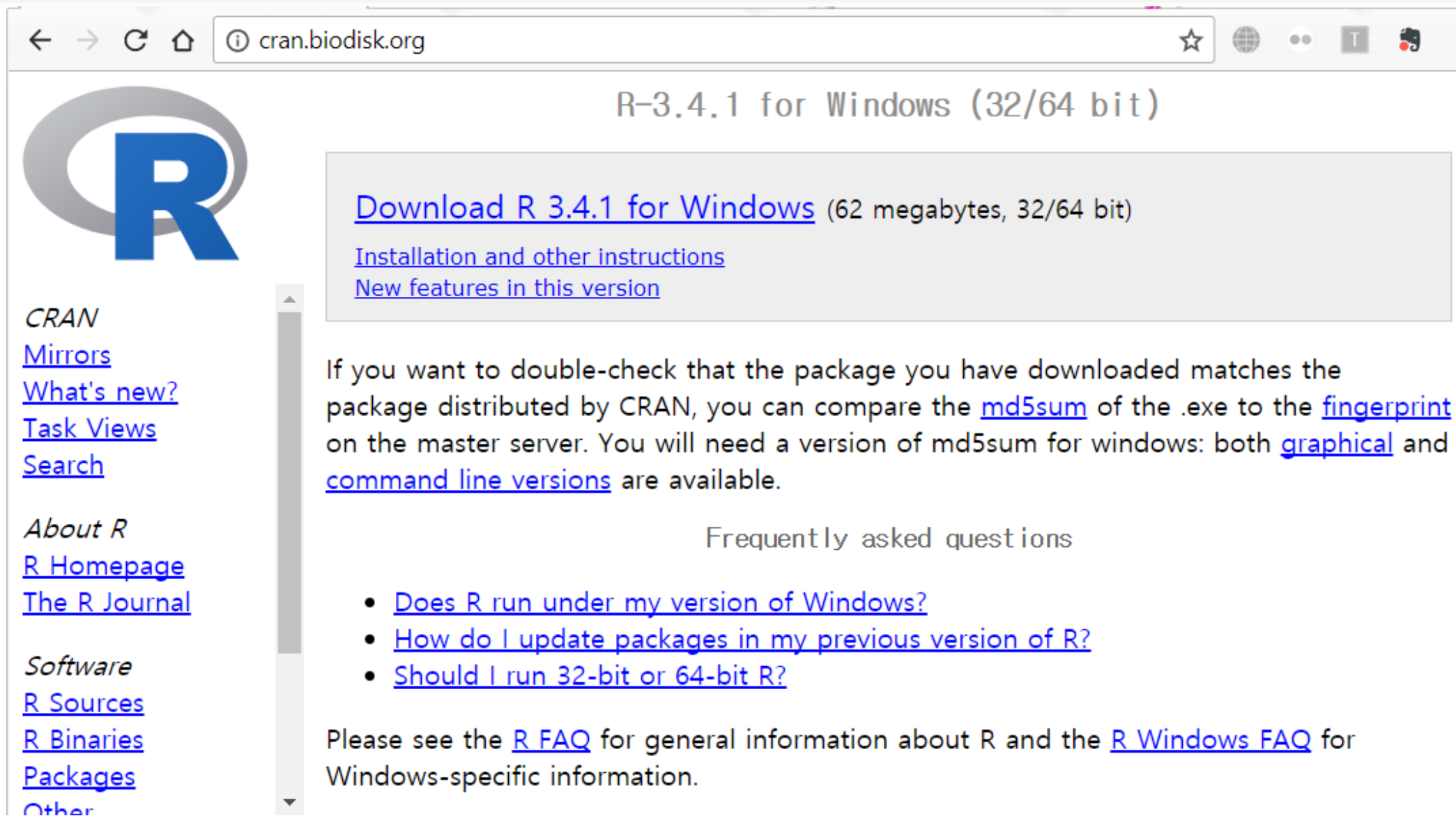


The screenshot shows a web browser window with the address bar displaying "cran.biodisk.org". The page title is "R for Windows". On the left side, there is a navigation menu with the R logo at the top. The menu items are: "CRAN", "Mirrors", "What's new?", "Task Views", "Search", "About R", "R Homepage", "The R Journal", "Software", "R Sources", "R Binaries", "Packages", and "Other". The main content area is titled "Subdirectories:" and lists four subdirectories with their descriptions:

- [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.

At the bottom of the subdirectories list, there is a note: "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."

R Software Download (Cont.)



The screenshot shows a web browser window with the address bar displaying `cran.biodisk.org`. The page title is "R-3.4.1 for Windows (32/64 bit)". The main content area features a large R logo on the left and a download link "Download R 3.4.1 for Windows (62 megabytes, 32/64 bit)" in the center. Below the download link are two sub-links: "Installation and other instructions" and "New features in this version". A paragraph of text explains how to verify the downloaded package using md5sum. Below this is a section titled "Frequently asked questions" with three bullet points. At the bottom, there is a note about the R FAQ and R Windows FAQ.

CRAN
[Mirrors](#)
[What's new?](#)
[Task Views](#)
[Search](#)

About R
[R Homepage](#)
[The R Journal](#)

Software
[R Sources](#)
[R Binaries](#)
[Packages](#)
[Other](#)

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](#)

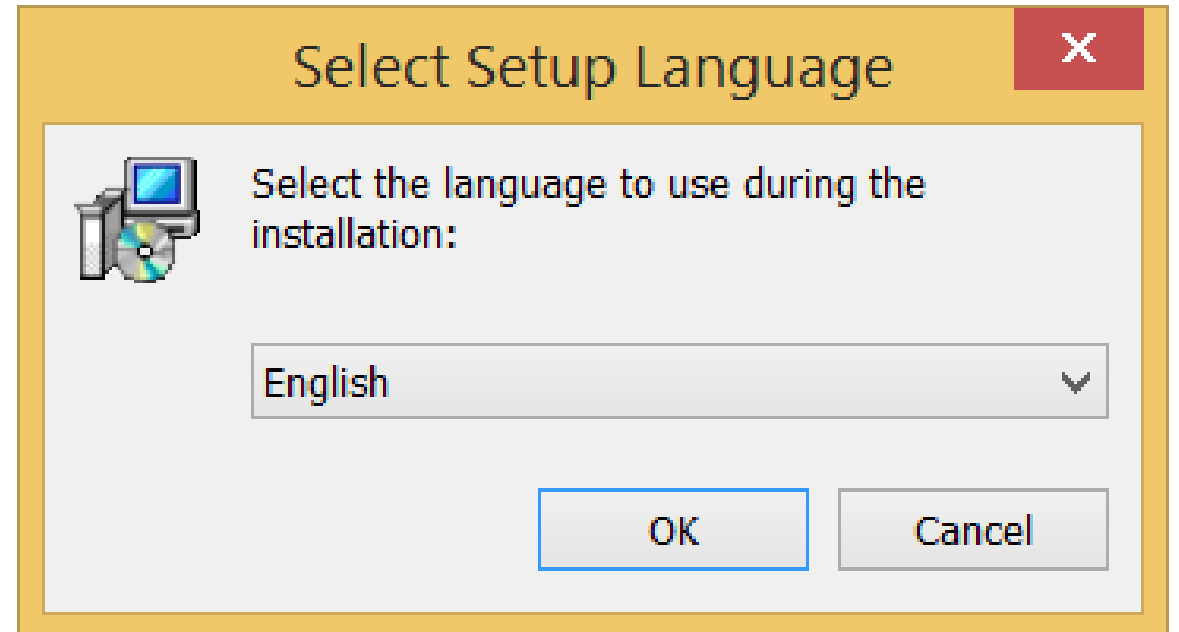
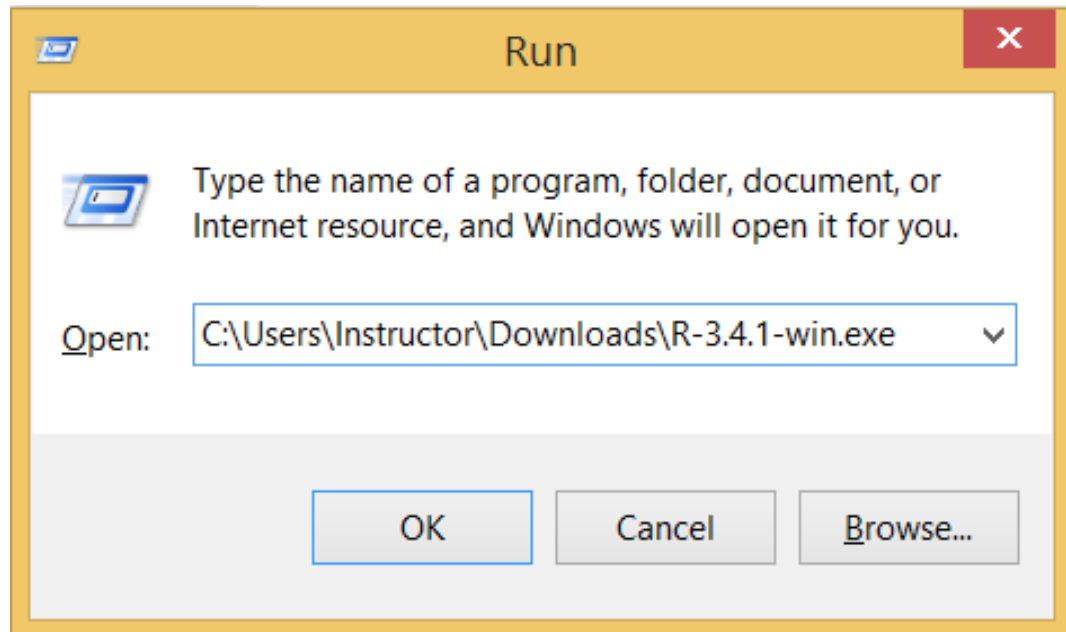
If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [md5sum](#) of the .exe to the [fingerprint](#) on the master server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

Frequently asked questions

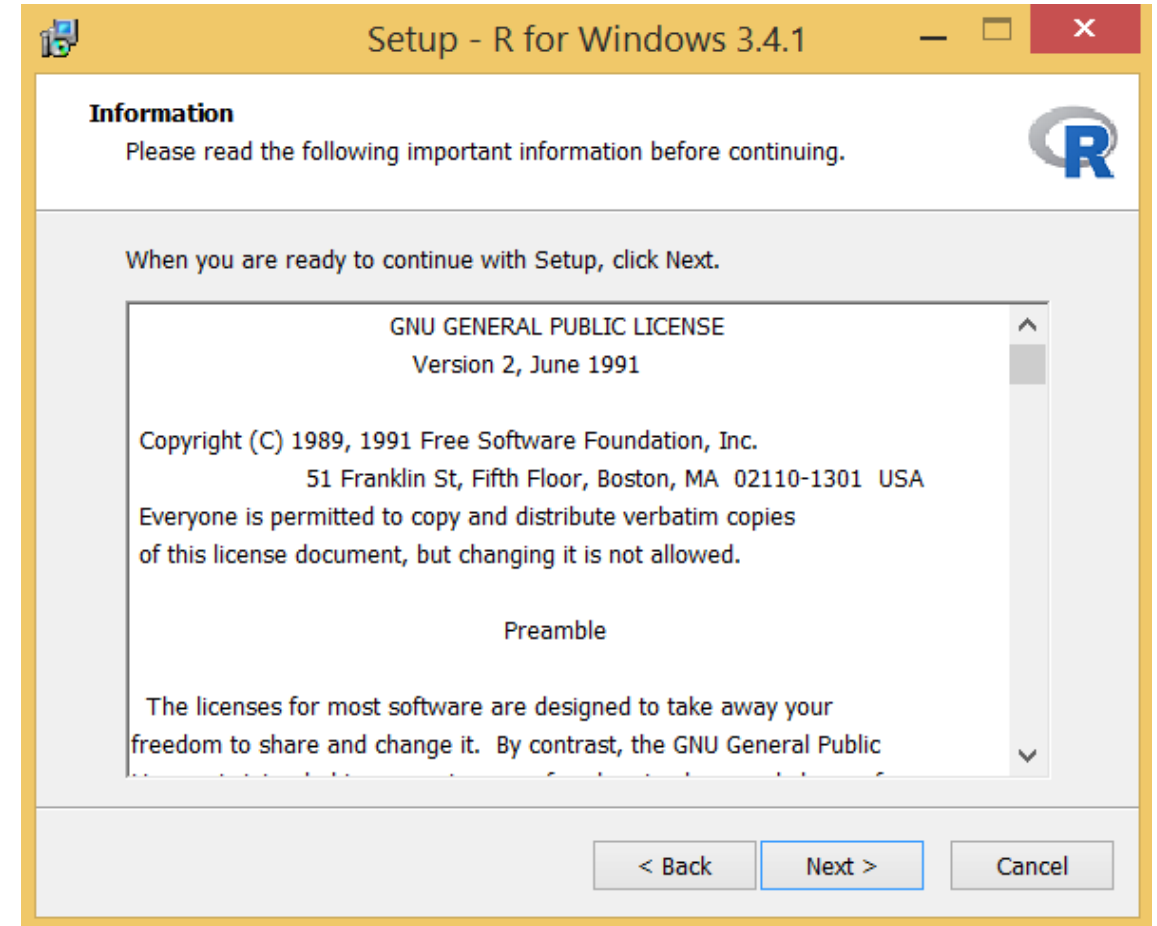
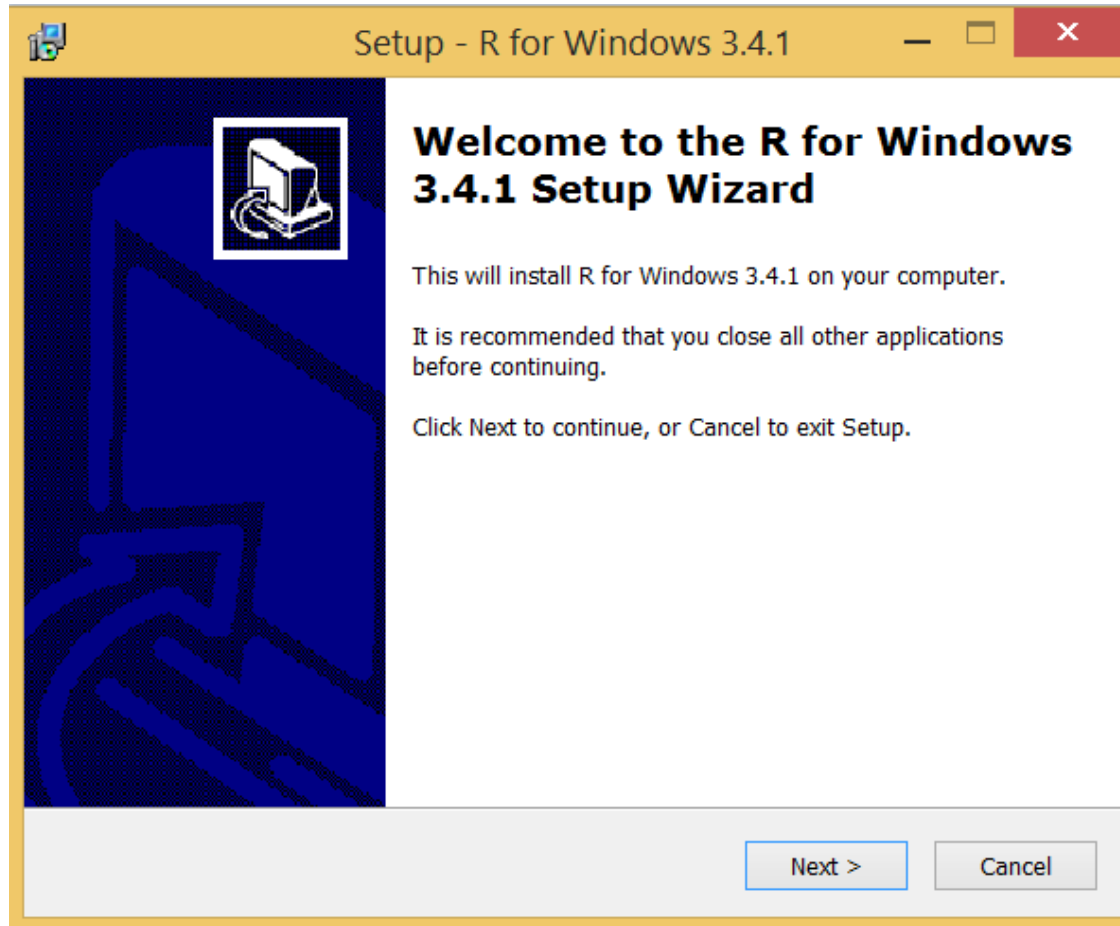
- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

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

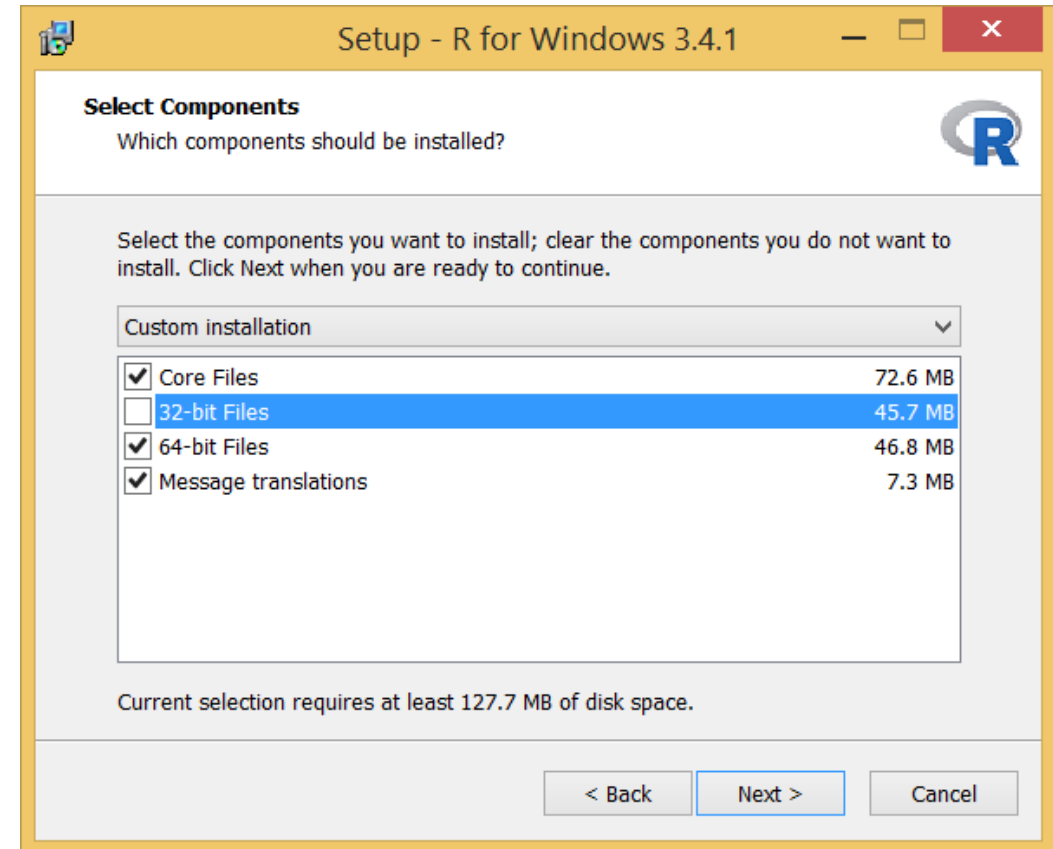
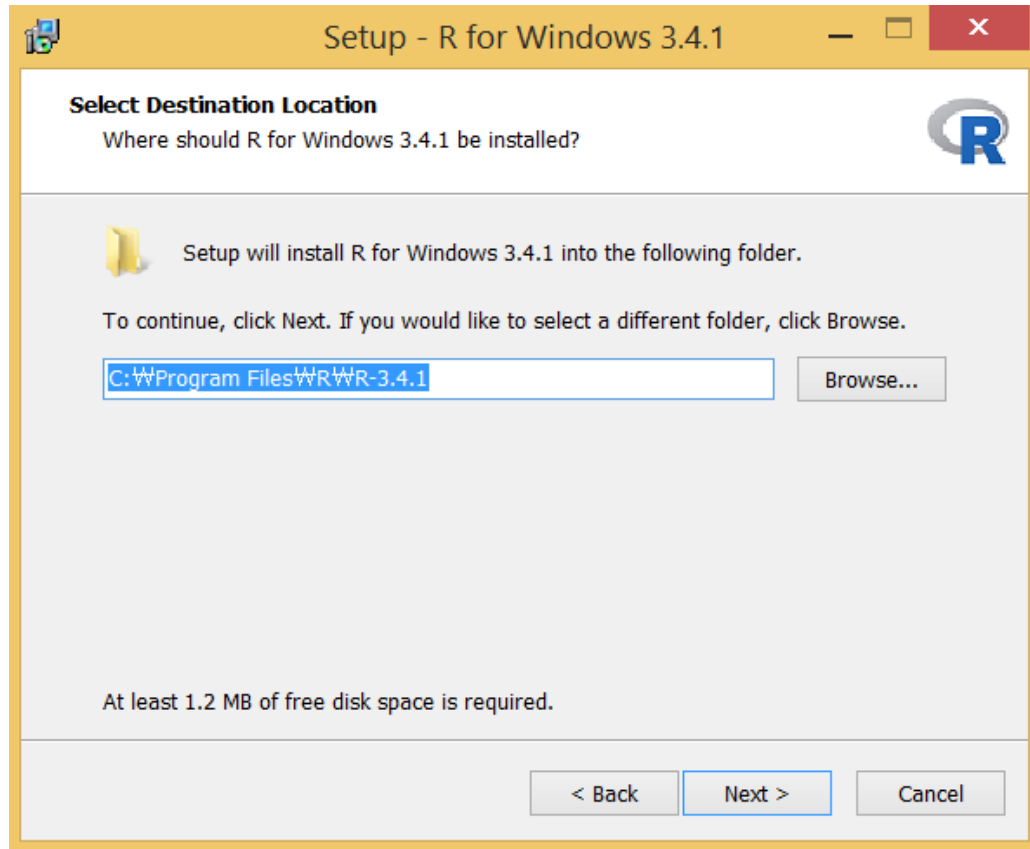
R Software Installation



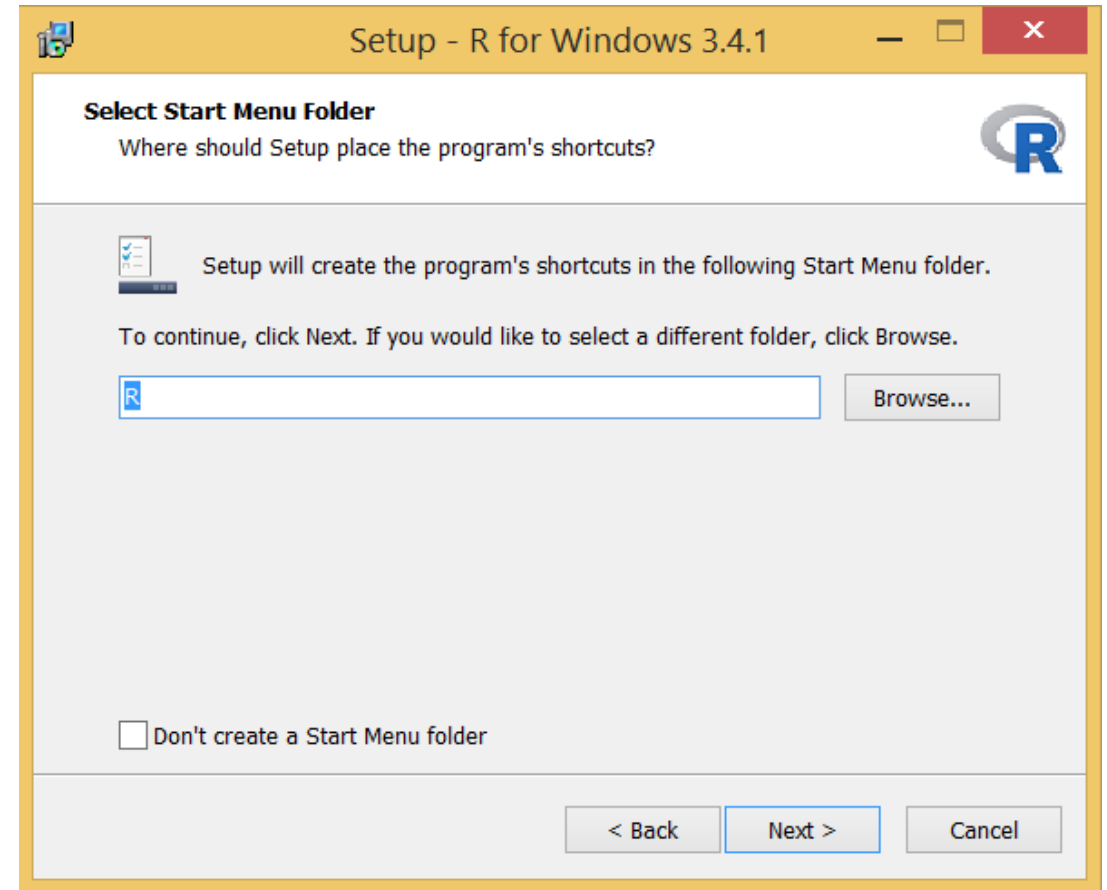
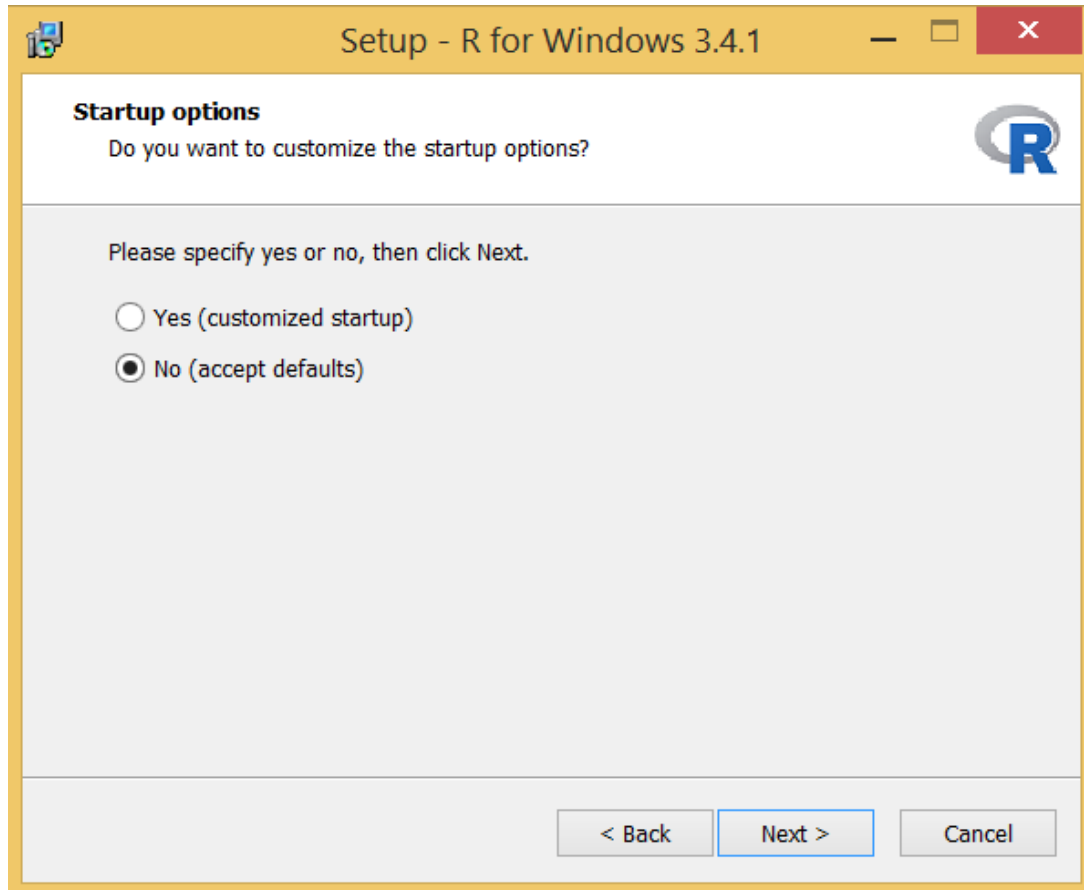
R Software Installation (Cont.)



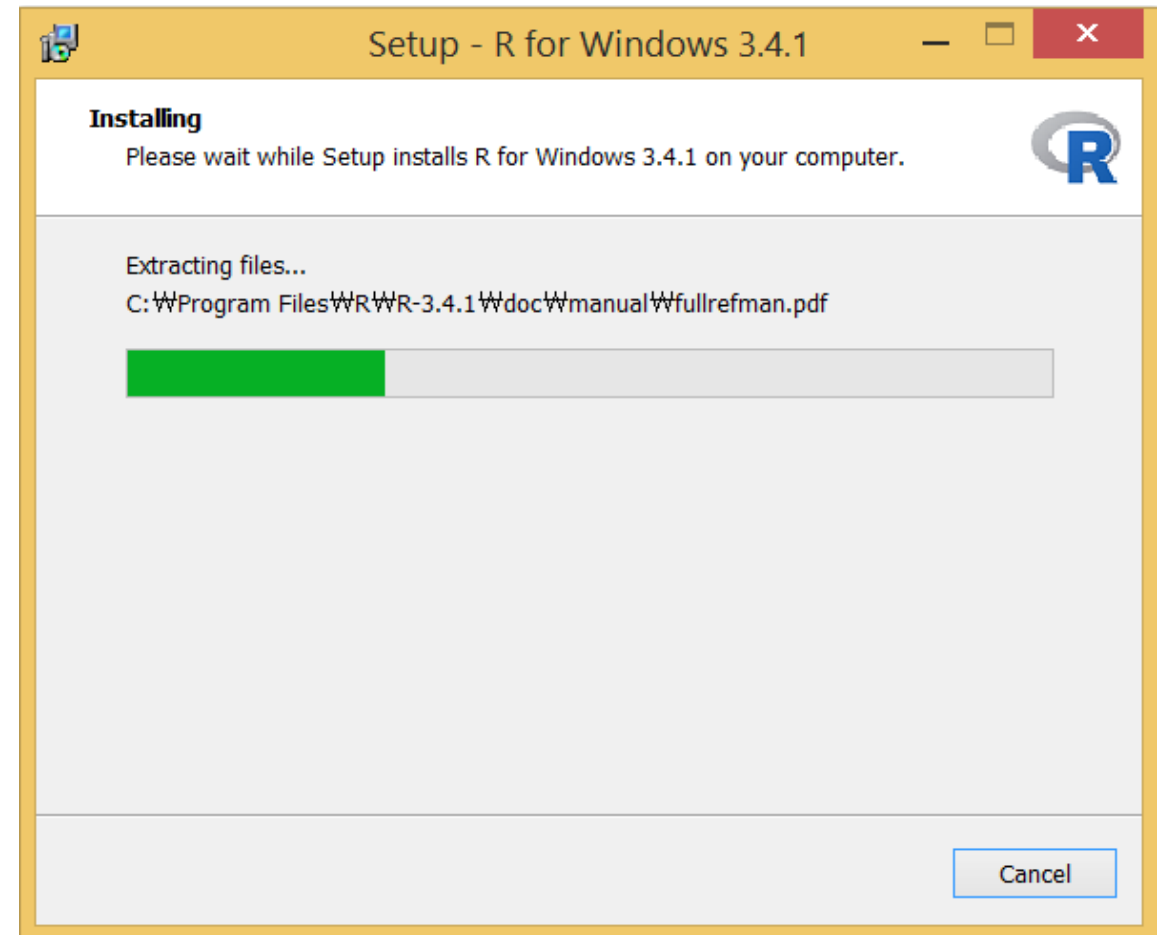
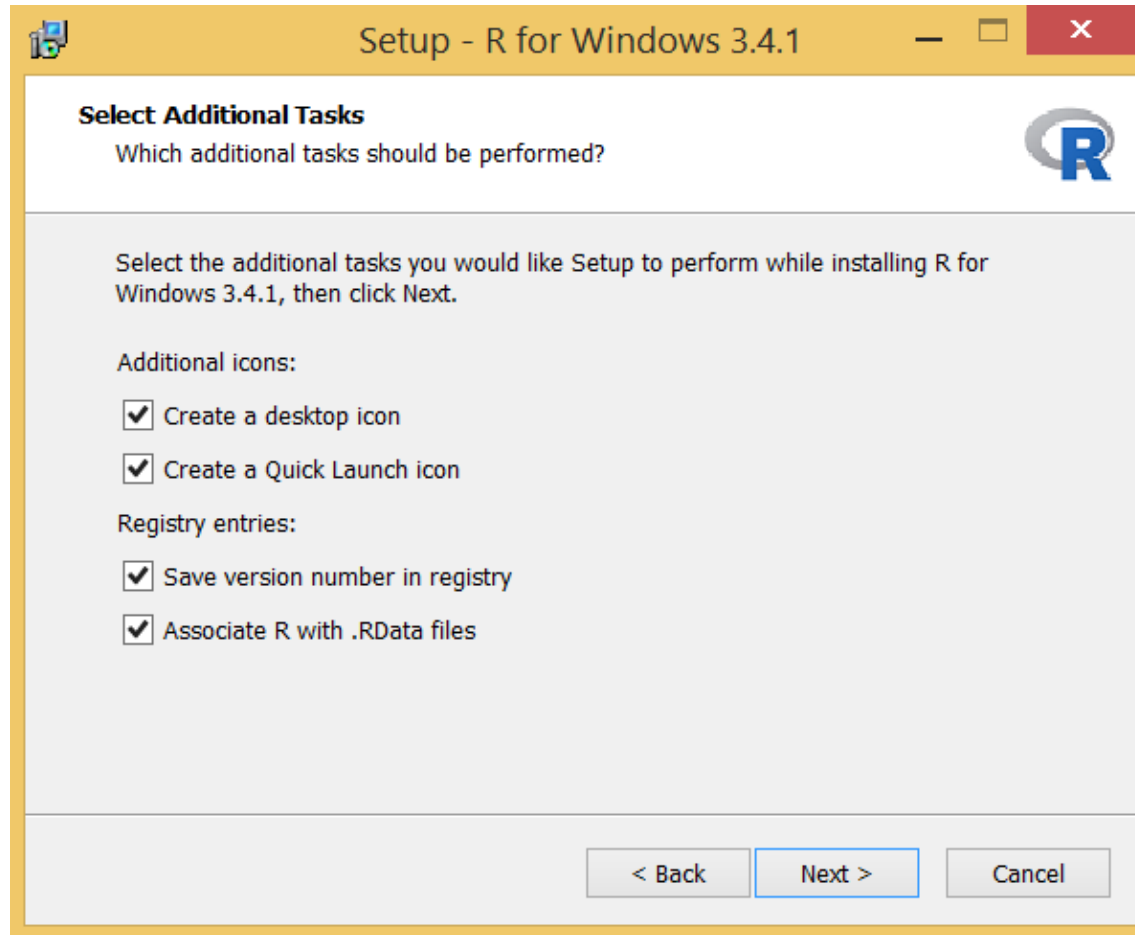
R Software Installation (Cont.)



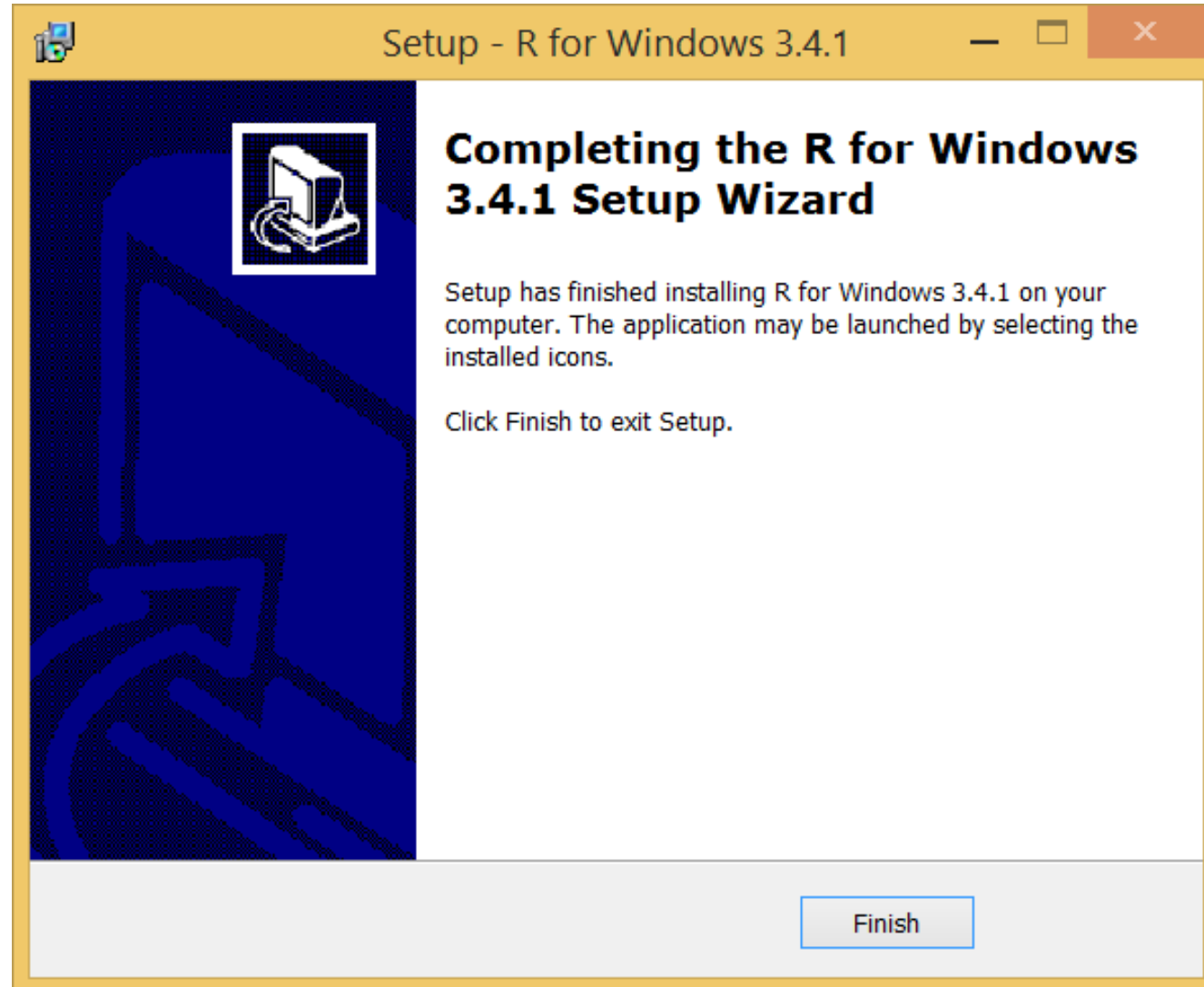
R Software Installation (Cont.)



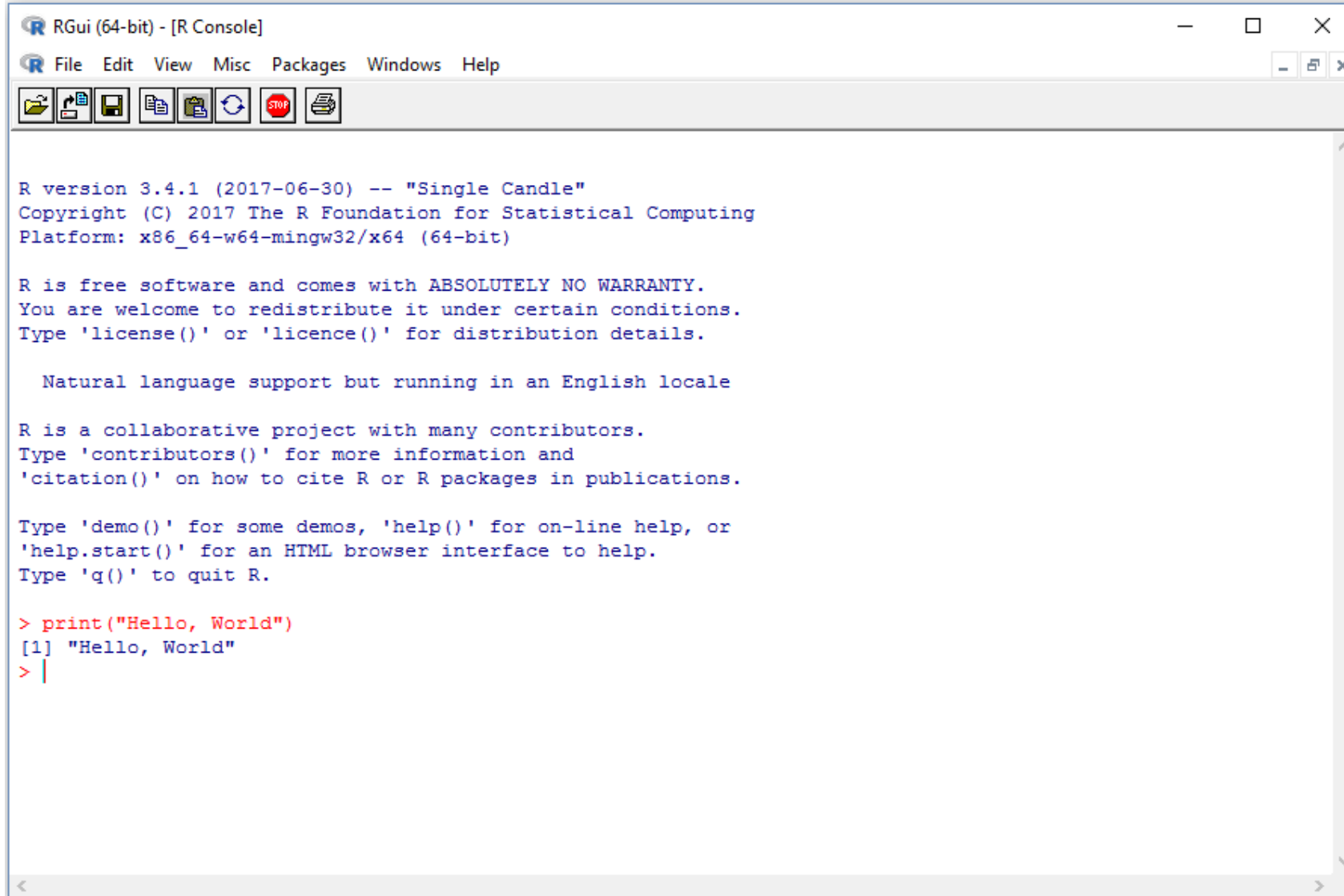
R Software Installation (Cont.)



R Software Installation (Cont.)



R Software Installation (Cont.)



The screenshot shows the RGui (64-bit) - [R Console] window. The title bar includes the R logo and window controls. The menu bar contains File, Edit, View, Misc, Packages, Windows, and Help. The toolbar has icons for file operations and execution. The console displays the R version 3.4.1 (2017-06-30) -- "Single Candle" startup message, including copyright information and usage instructions. The user has entered the command `> print("Hello, World")`, and the output is `[1] "Hello, World"`. The prompt `> |` is visible at the end of the line.

```
RGui (64-bit) - [R Console]
File Edit View Misc Packages Windows Help

R version 3.4.1 (2017-06-30) -- "Single Candle"
Copyright (C) 2017 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.

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.

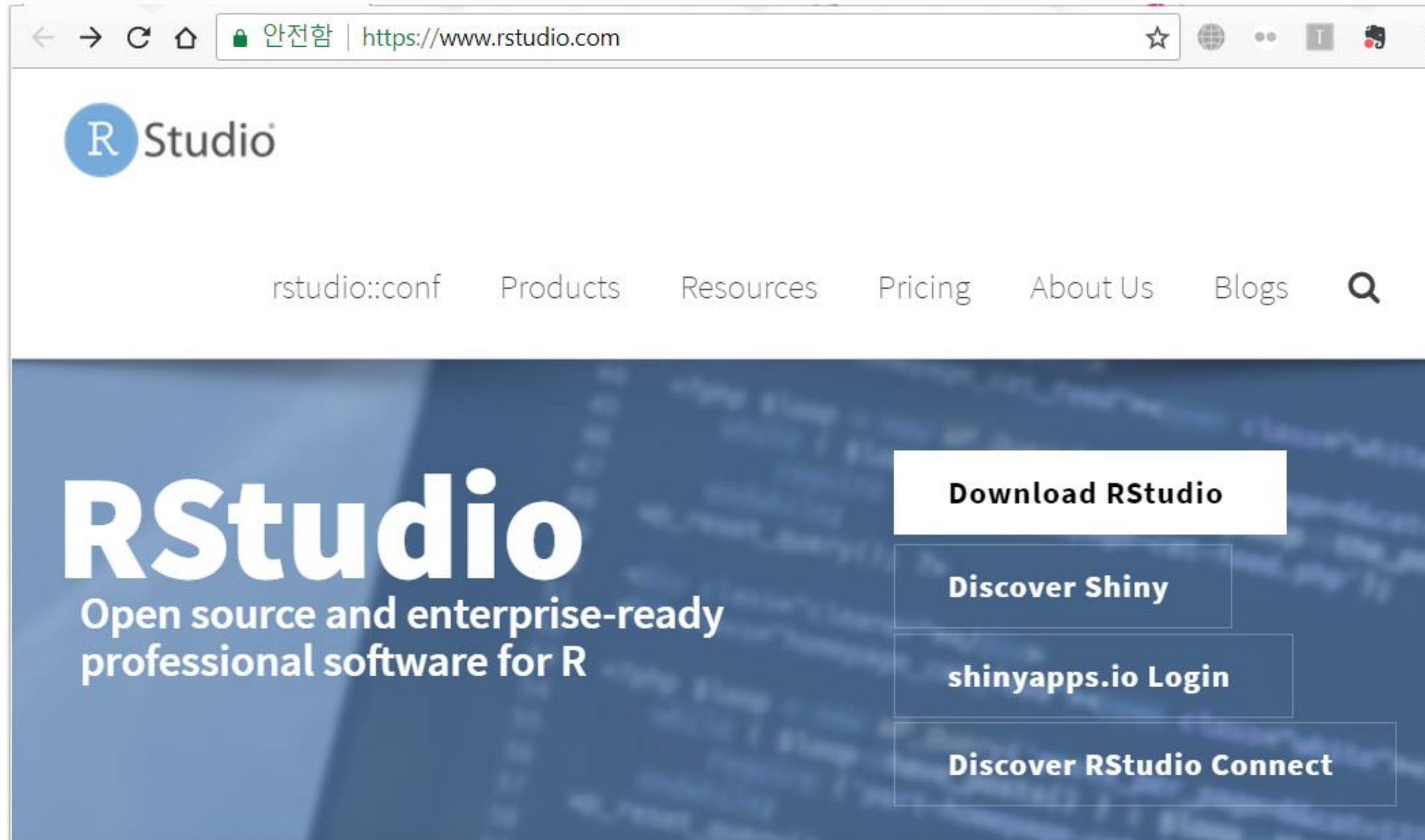
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> print("Hello, World")
[1] "Hello, World"
> |
```






Studio Installation

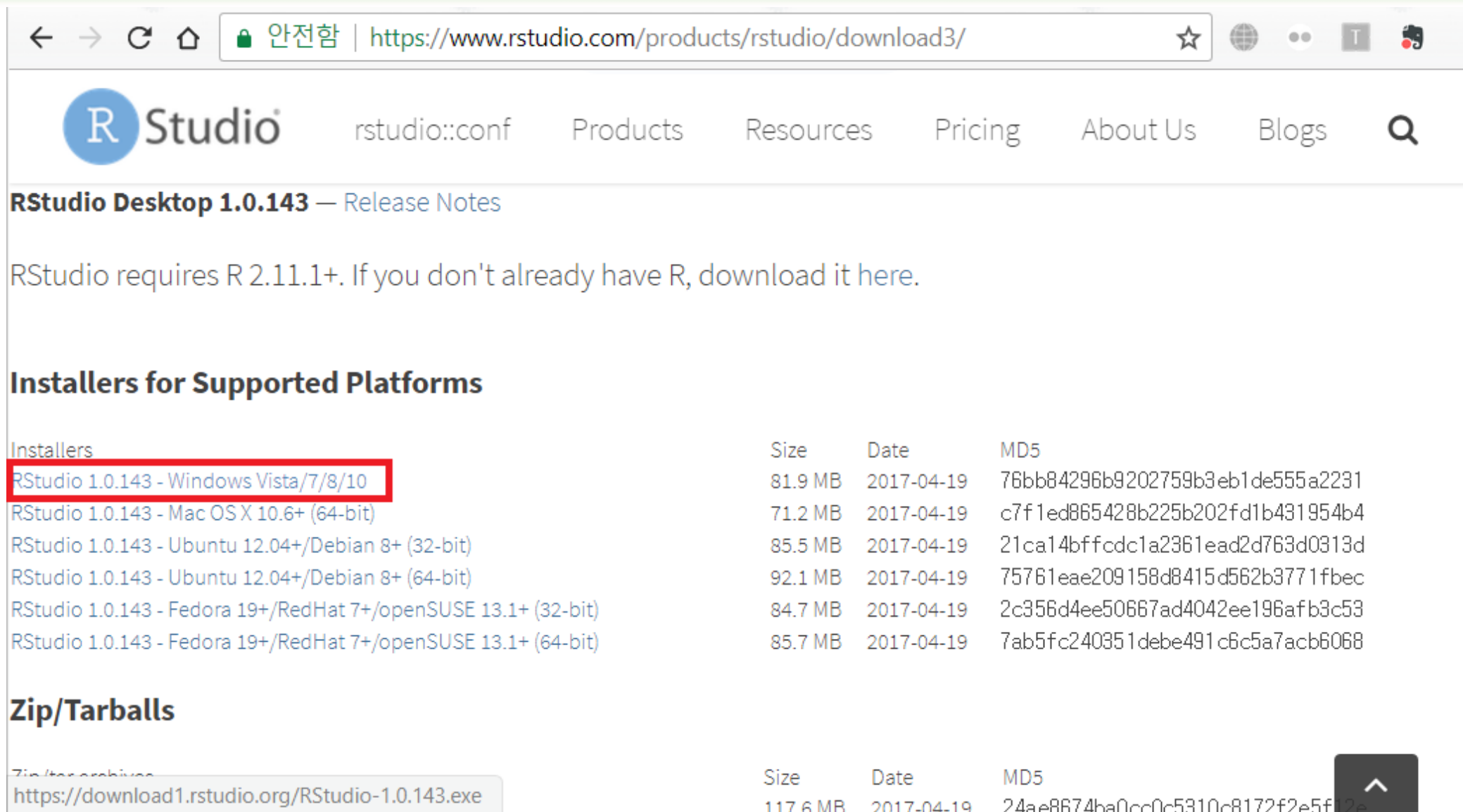
Download R Studio and Install



Download R Studio and Install (Cont.)

 Products Resources Pricing About Us Blog 				
	RStudio Desktop (Free License)	RStudio Desktop (Commercial License)	RStudio Server (Free License)	RStudio Server Pro (Commercial License)
Integrated Development Environment for R	✓	✓	✓	✓
Priority support		✓		✓
Access via Web Browser			✓	✓
Enterprise Security and Access Controls				✓
Project Sharing				✓
Access to Multiple Versions of R				✓
Multiple Concurrent Sessions				✓
Administrative Dashboard				✓
Load Balancing and Resource Management				✓
License	AGPL	Commercial	AGPL	Commercial
Pricing	FREE	\$995/yr*	FREE	\$9,995/yr*
	DOWNLOAD	BUY NOW	DOWNLOAD	DOWNLOAD 

Download R Studio and Install (Cont.)



The screenshot shows the RStudio website's download page. The browser's address bar displays the URL <https://www.rstudio.com/products/rstudio/download3/>. The page header includes the RStudio logo and navigation links for [rstudio::conf](#), [Products](#), [Resources](#), [Pricing](#), [About Us](#), and [Blogs](#). The main heading is **RStudio Desktop 1.0.143 — Release Notes**. Below this, a paragraph states: "RStudio requires R 2.11.1+. If you don't already have R, download it [here](#)." The section **Installers for Supported Platforms** contains a table with columns for the installer name, size, date, and MD5 hash. The first row, "RStudio 1.0.143 - Windows Vista/7/8/10", is highlighted with a red box. Below the table, the **Zip/Tarballs** section is partially visible, showing a link to <https://download1.rstudio.org/RStudio-1.0.143.exe> with its corresponding size and MD5 hash.

← → ↻ 🏠 🔒 안전함 | <https://www.rstudio.com/products/rstudio/download3/> ☆ 🌐 ⌵ T 🐼 ⋮

RStudio [rstudio::conf](#) [Products](#) [Resources](#) [Pricing](#) [About Us](#) [Blogs](#) 🔍

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

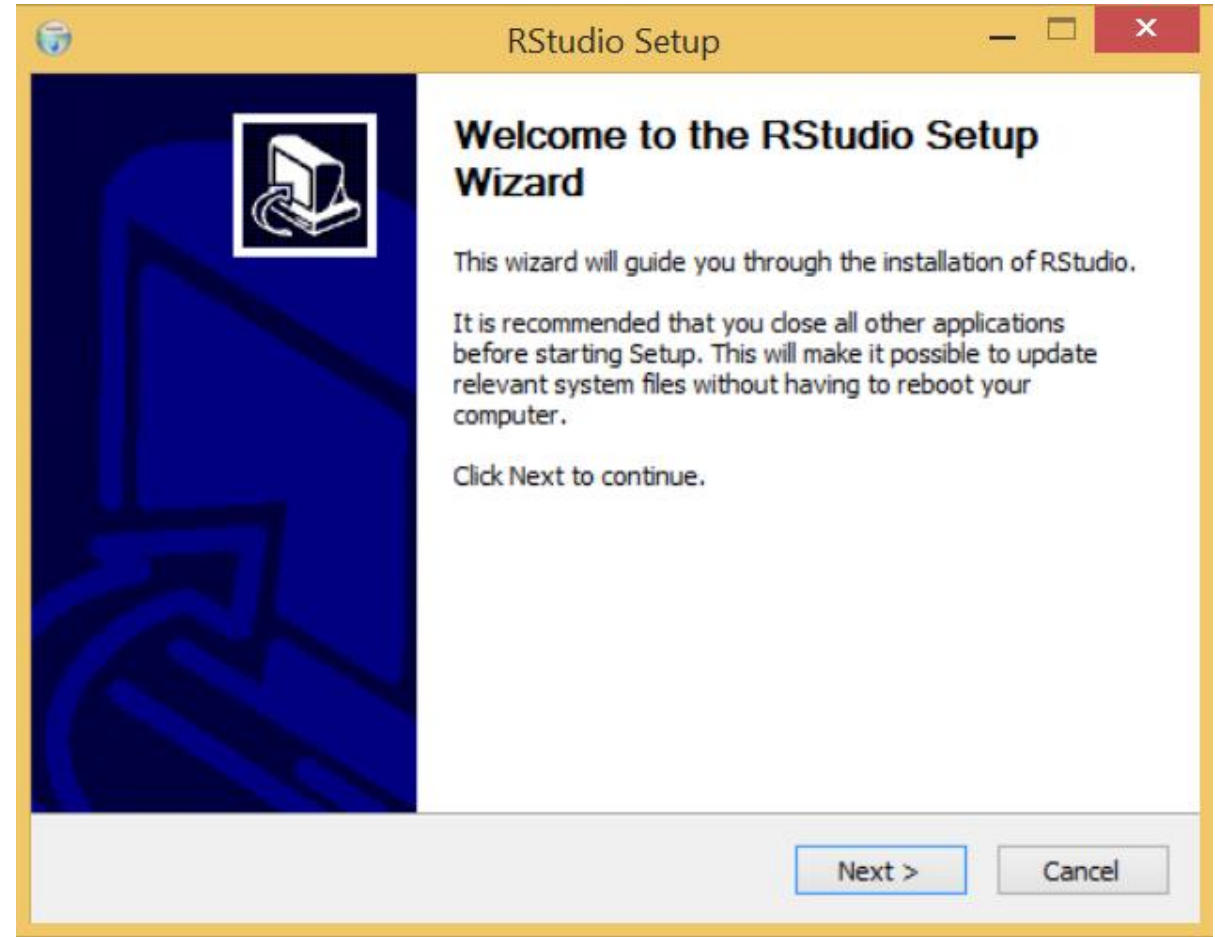
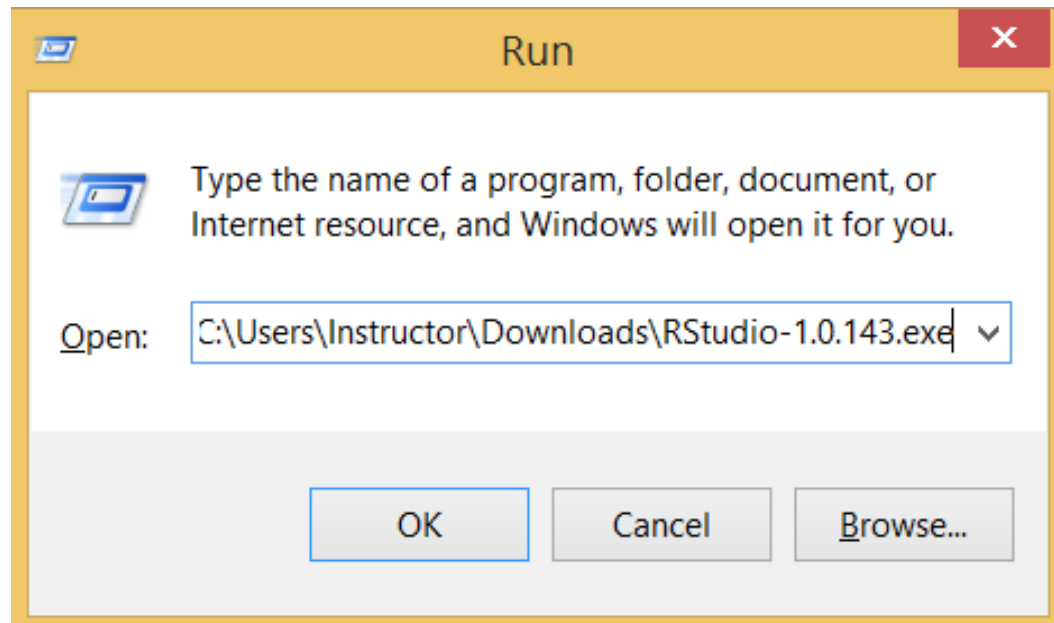
Installers	Size	Date	MD5
RStudio 1.0.143 - Windows Vista/7/8/10	81.9 MB	2017-04-19	76bb84296b9202759b3eb1de555a2231
RStudio 1.0.143 - Mac OS X 10.6+ (64-bit)	71.2 MB	2017-04-19	c7f1ed865428b225b202fd1b431954b4
RStudio 1.0.143 - Ubuntu 12.04+/Debian 8+ (32-bit)	85.5 MB	2017-04-19	21ca14bffc1a2361ead2d763d0313d
RStudio 1.0.143 - Ubuntu 12.04+/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

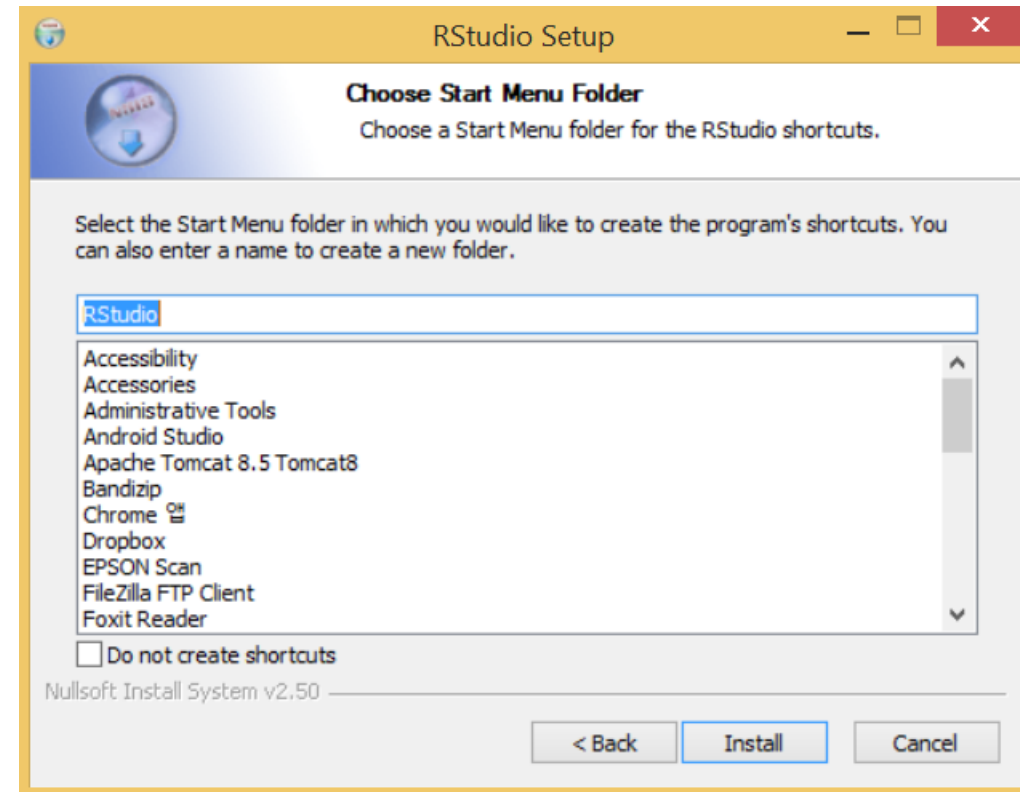
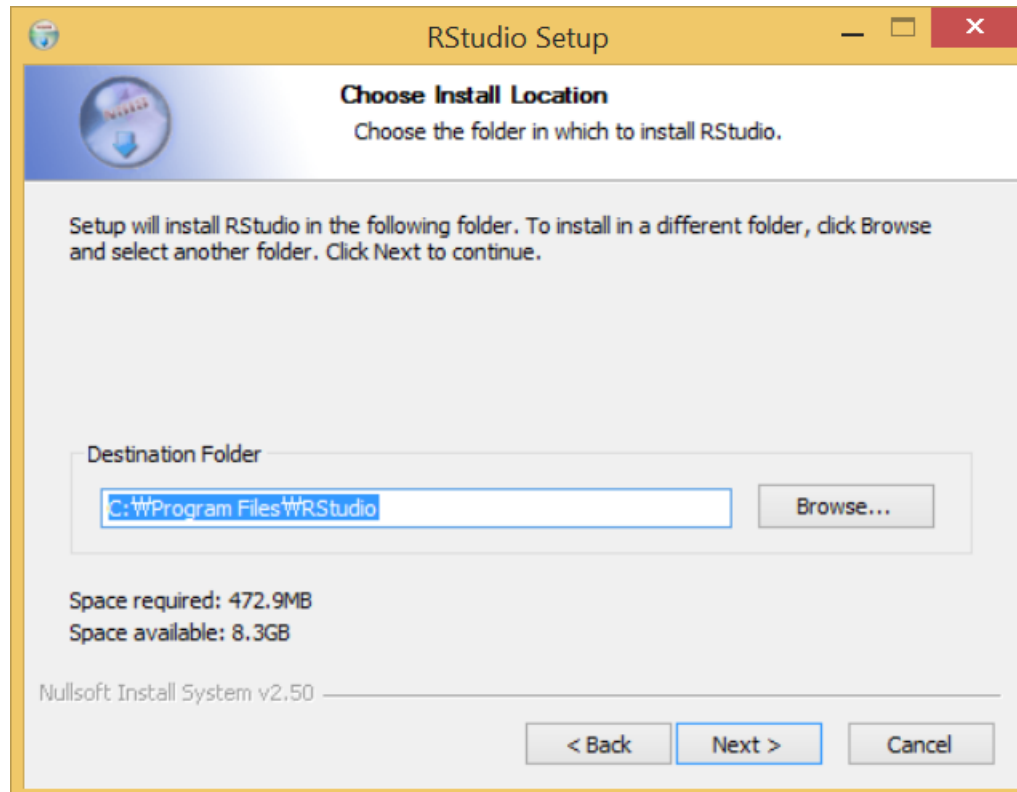
Zip/Tarballs	Size	Date	MD5
https://download1.rstudio.org/RStudio-1.0.143.exe	117.6 MB	2017-04-19	24ae8674ba0cc0c5310c8172f2e5f12e

⬆

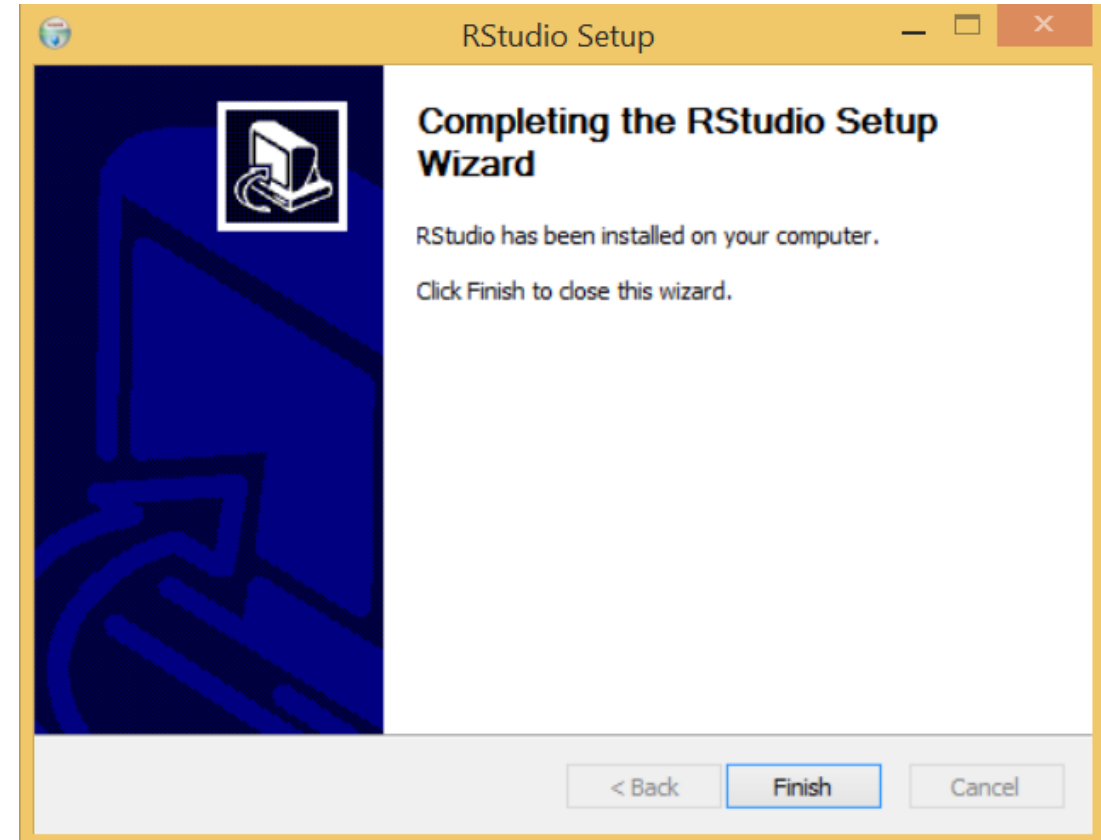
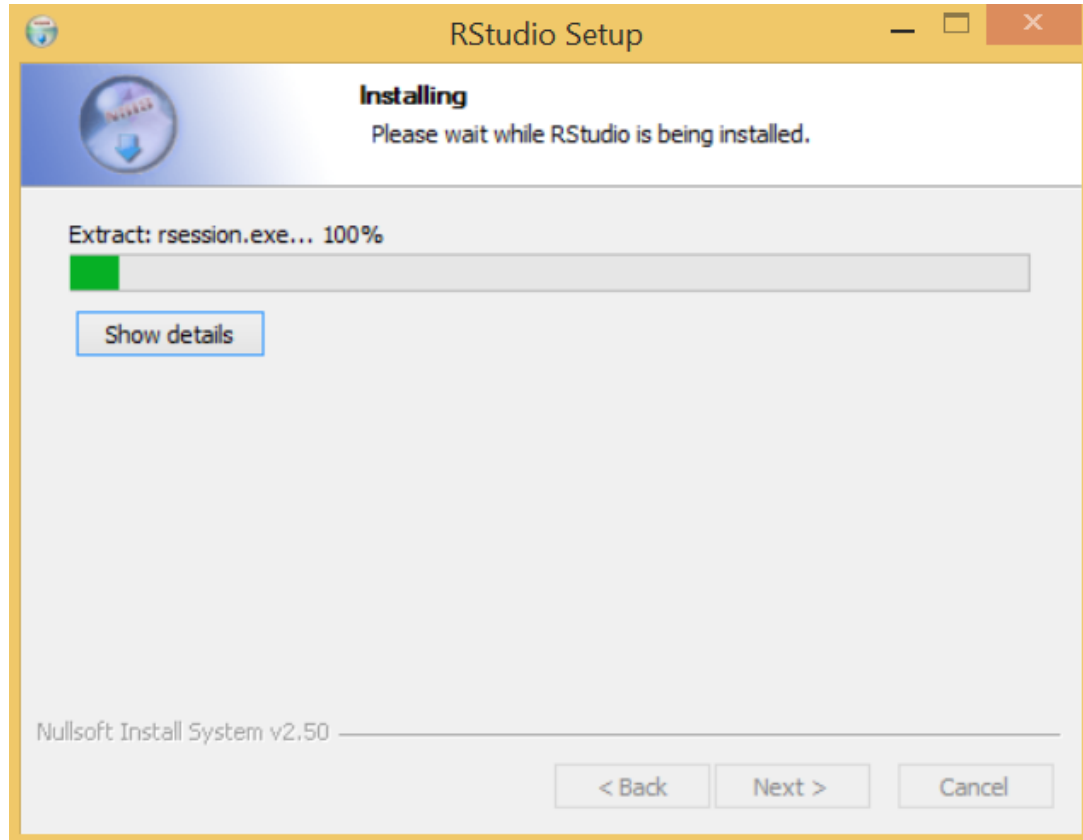
Download R Studio and Install (Cont.)



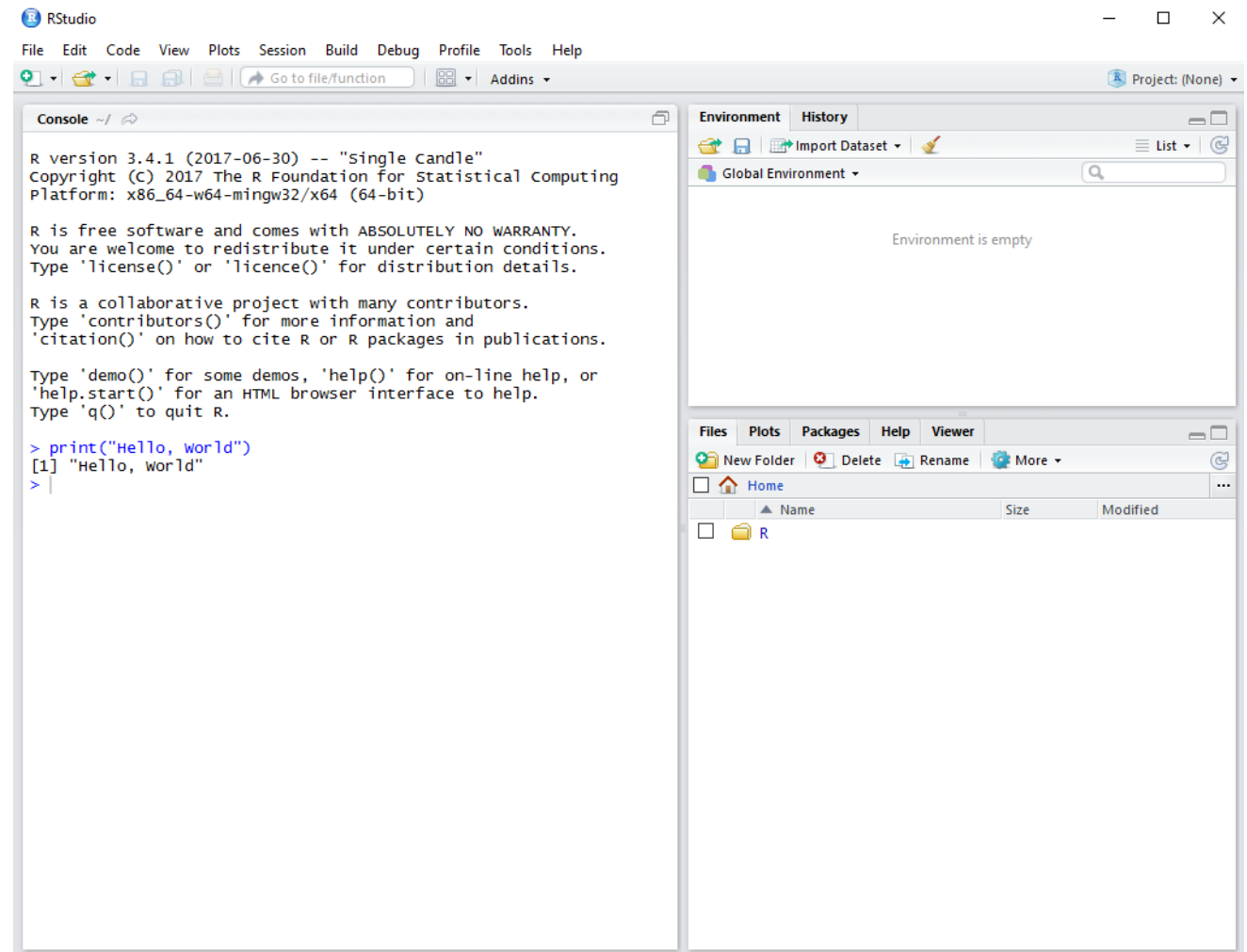
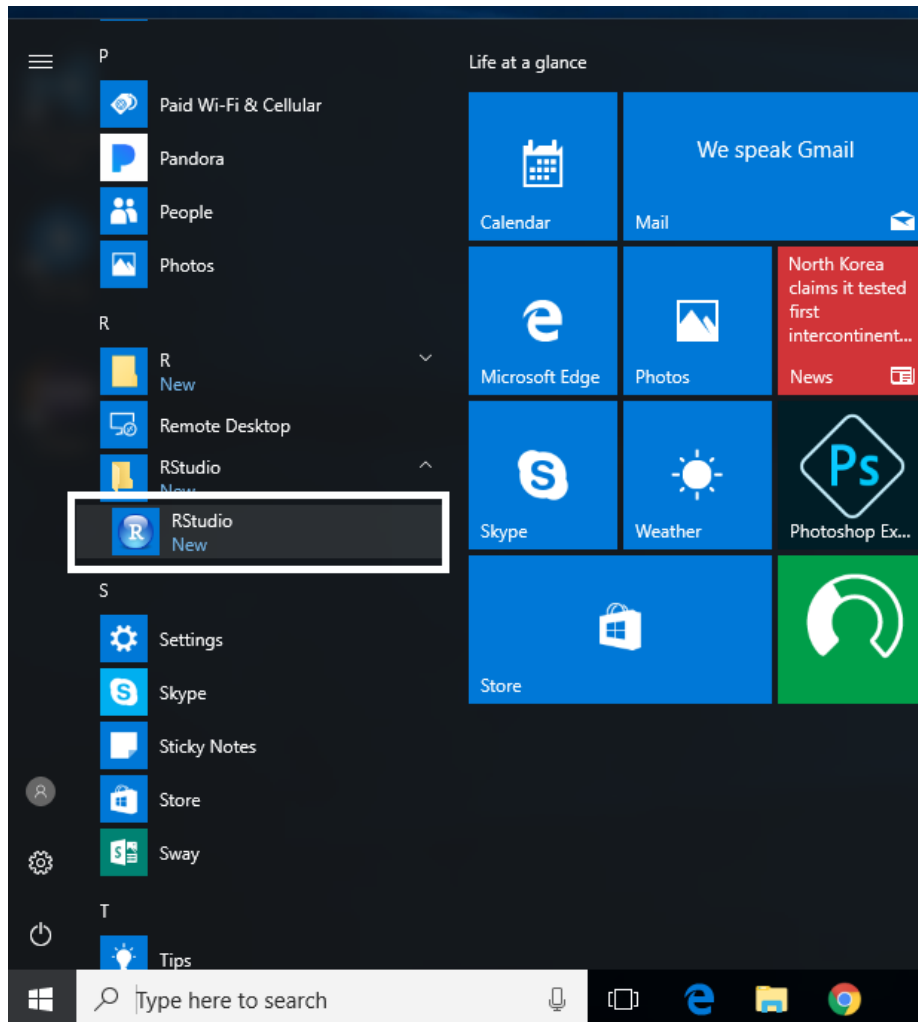
Download R Studio and Install (Cont.)



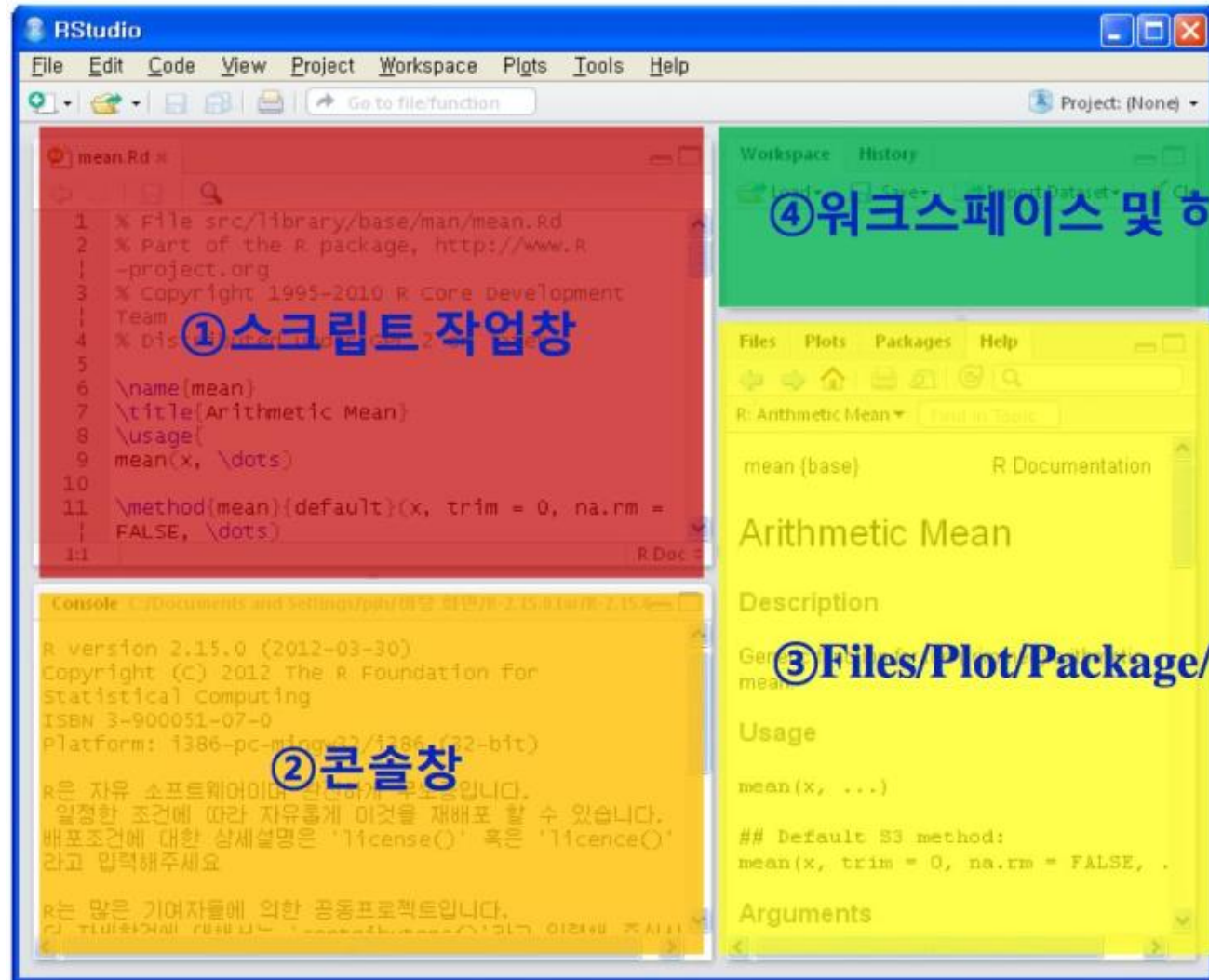
Download R Studio and Install (Cont.)



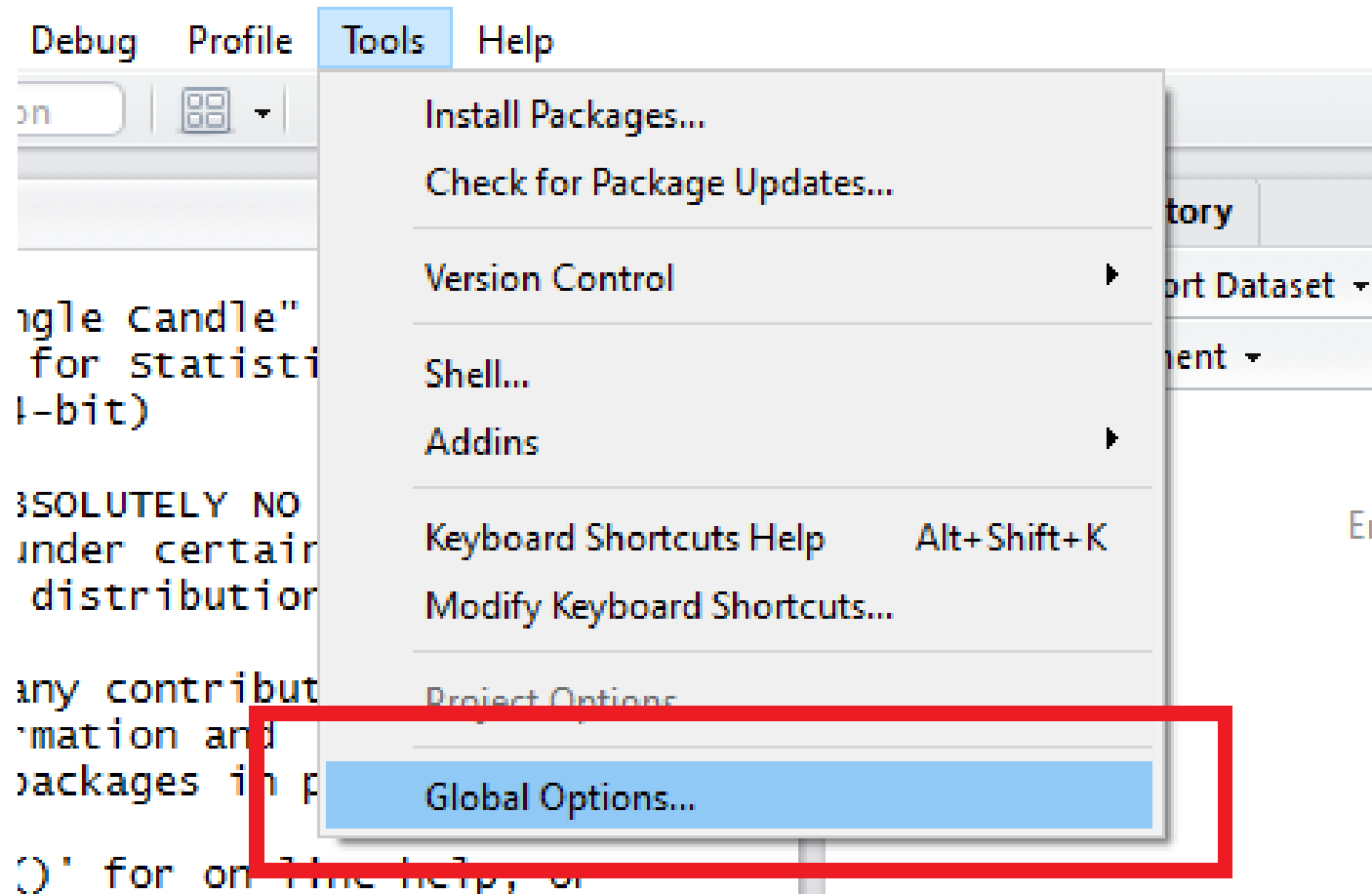
Download R Studio and Install (Cont.)



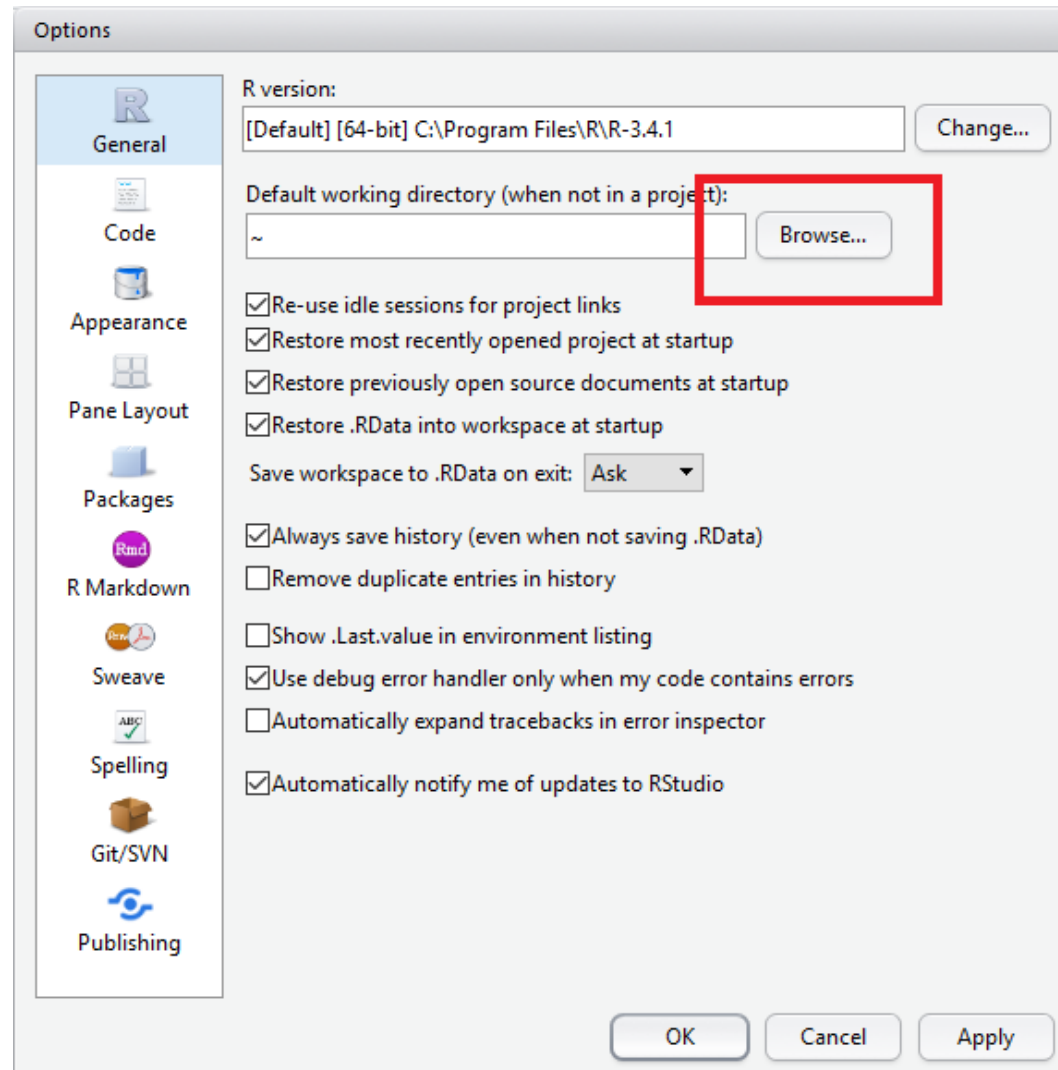
Download R Studio and Install (Cont.)



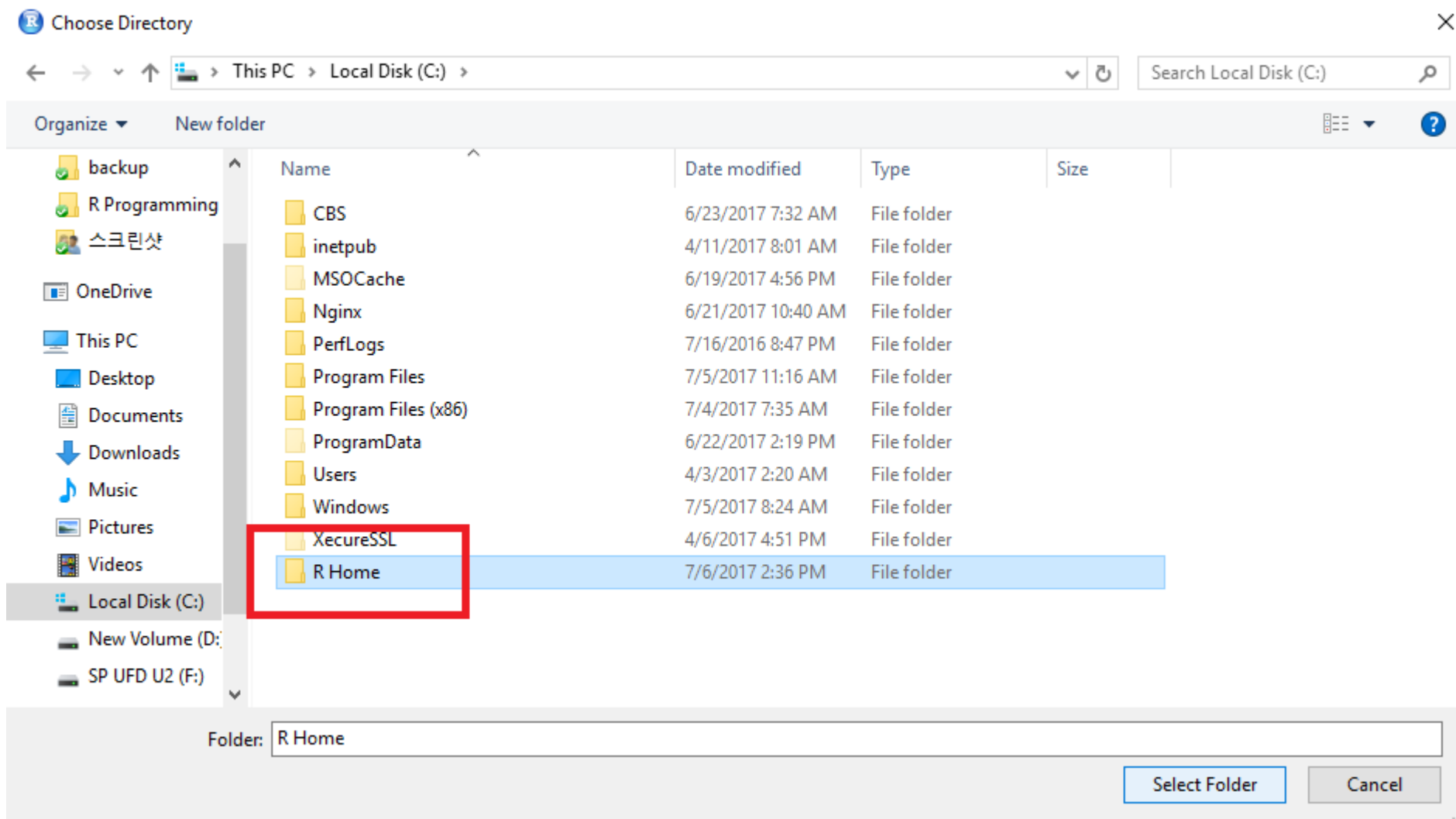
Configure Working Directory



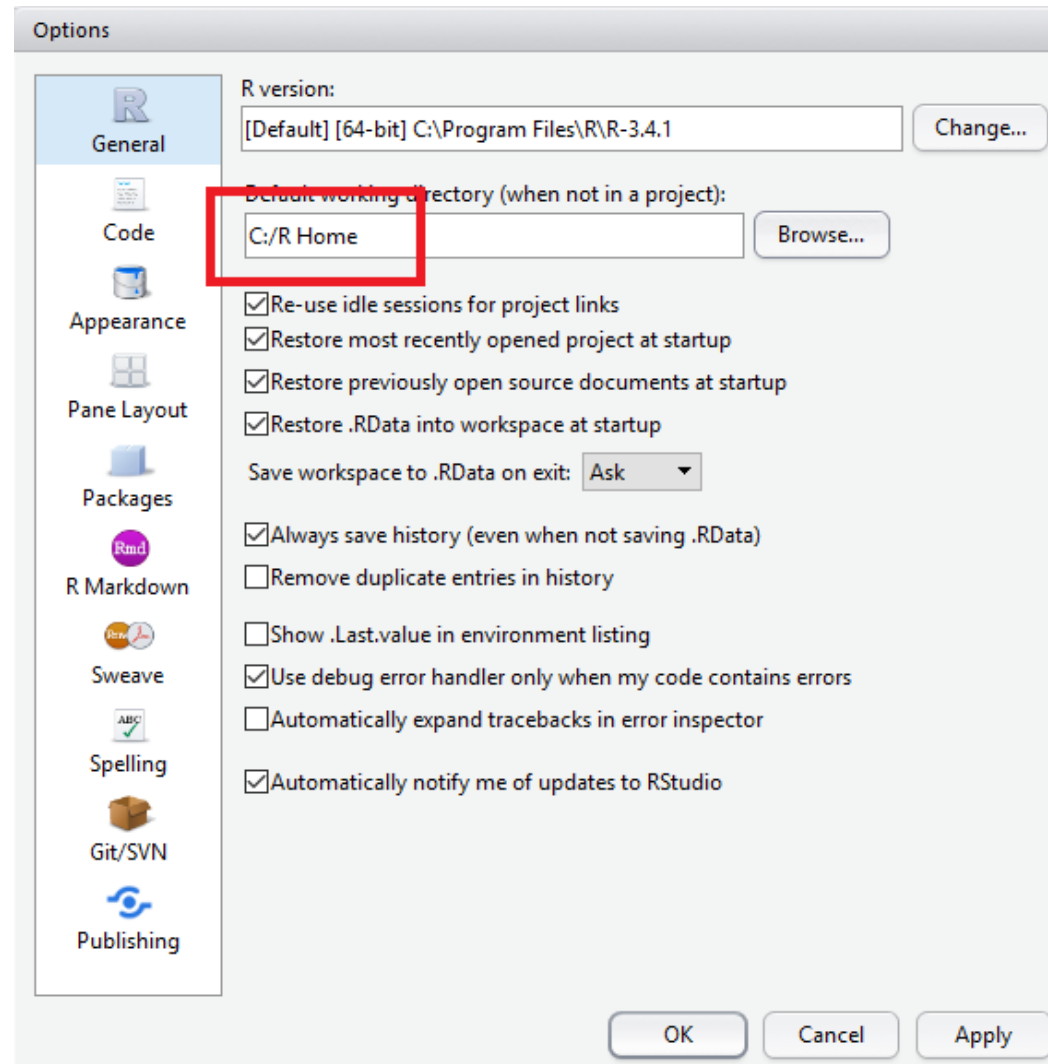
Configure Working Directory (Cont.)



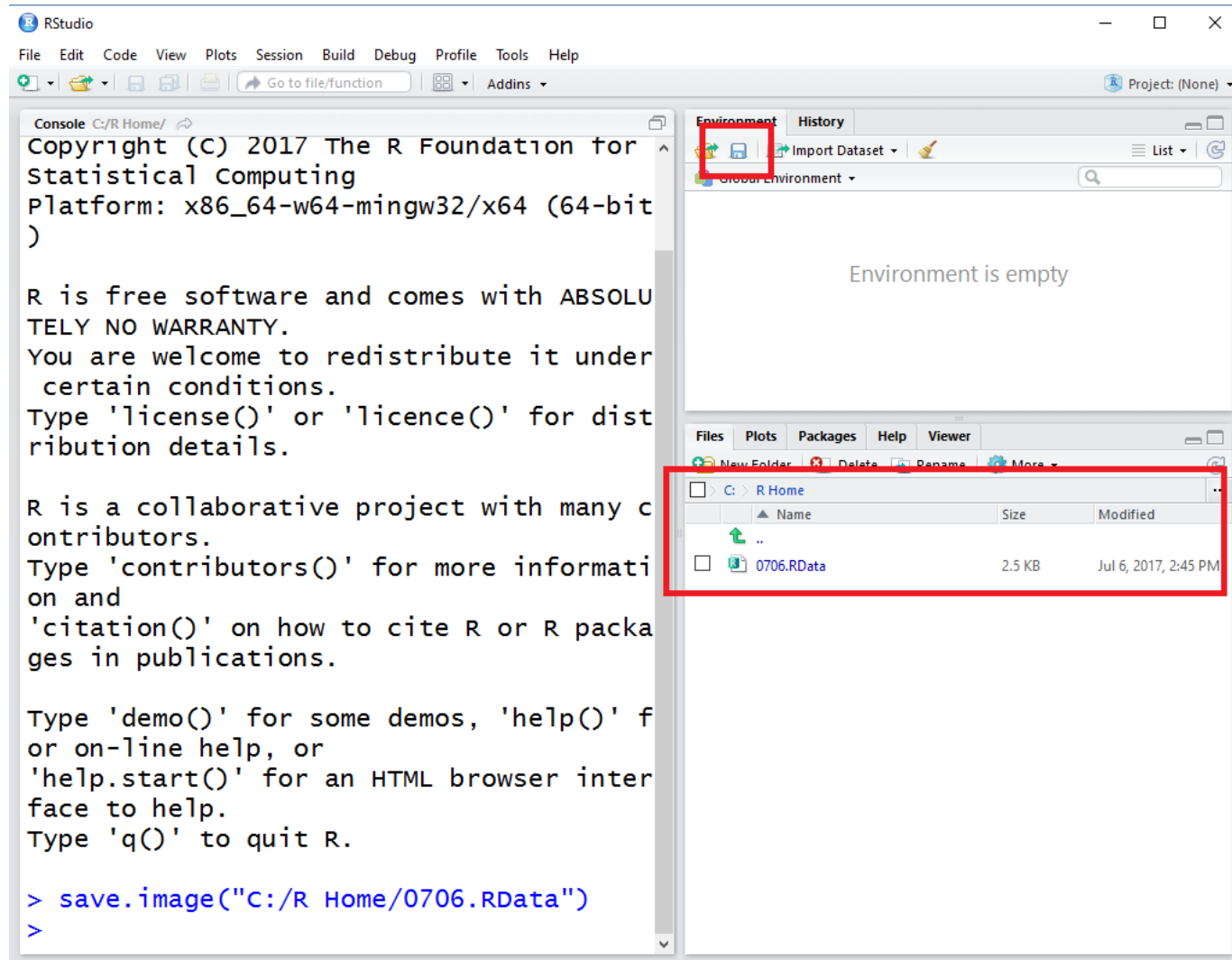
Configure Working Directory (Cont.)



Configure Working Directory (Cont.)

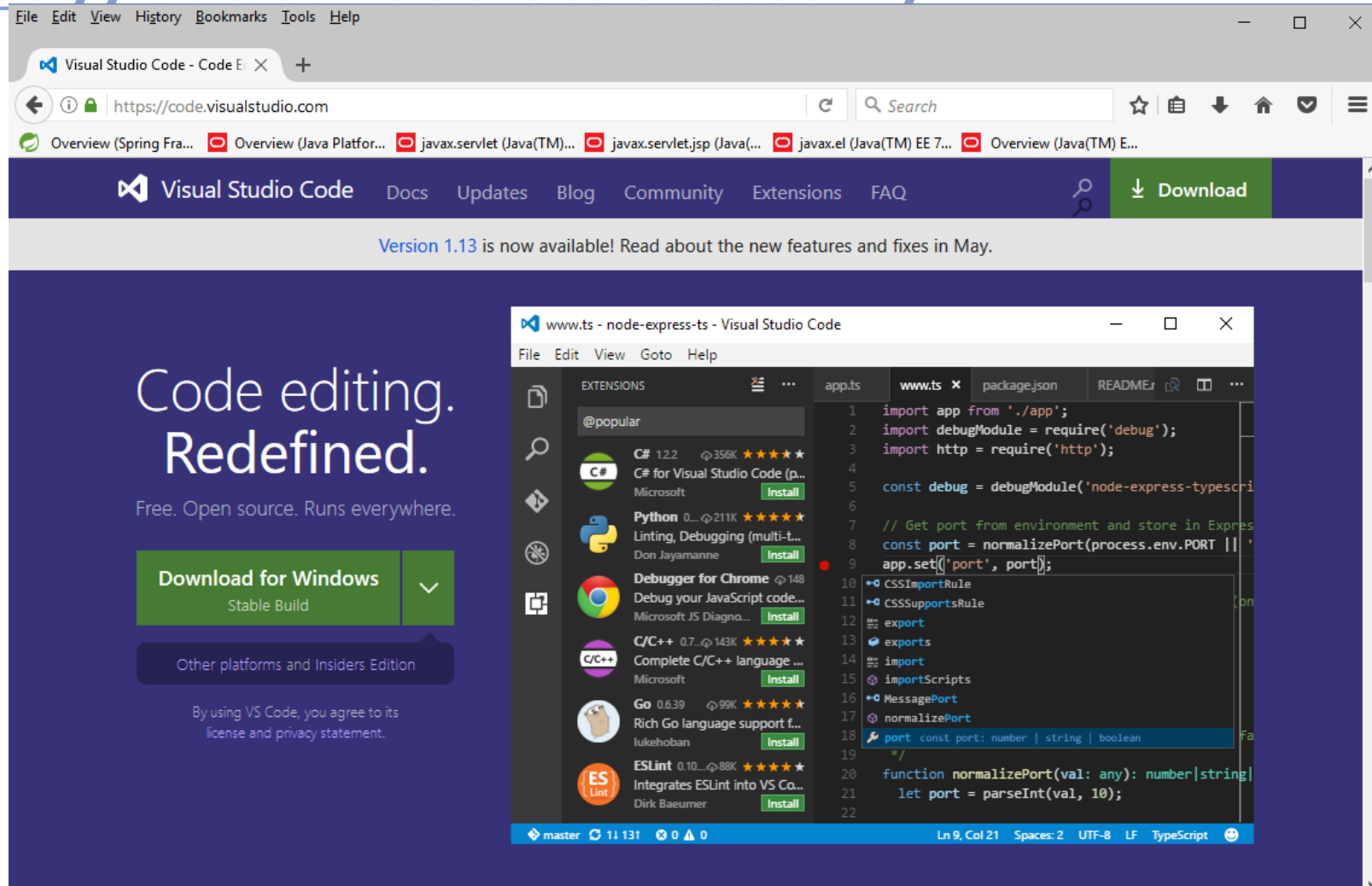


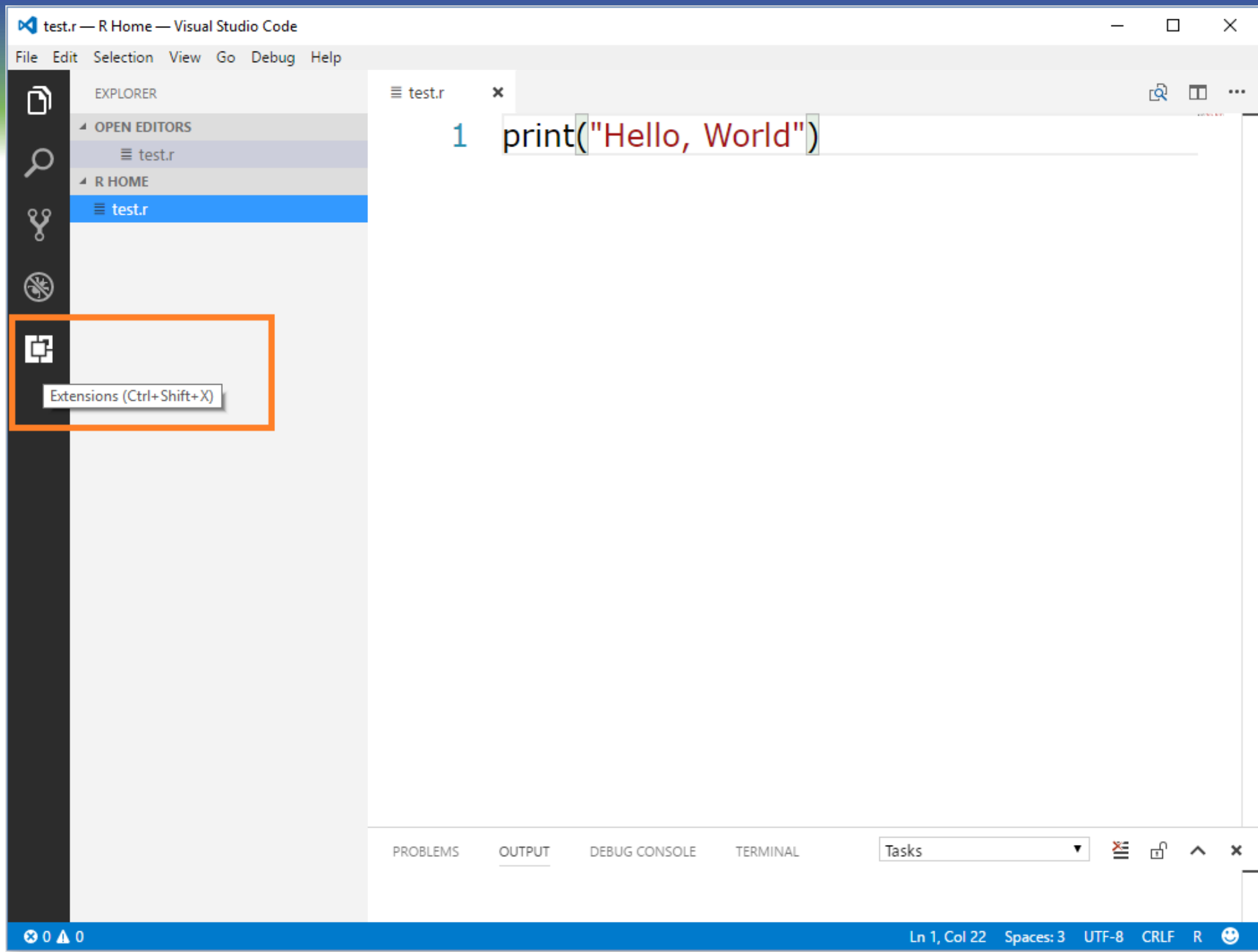
Configure Working Directory (Cont.)

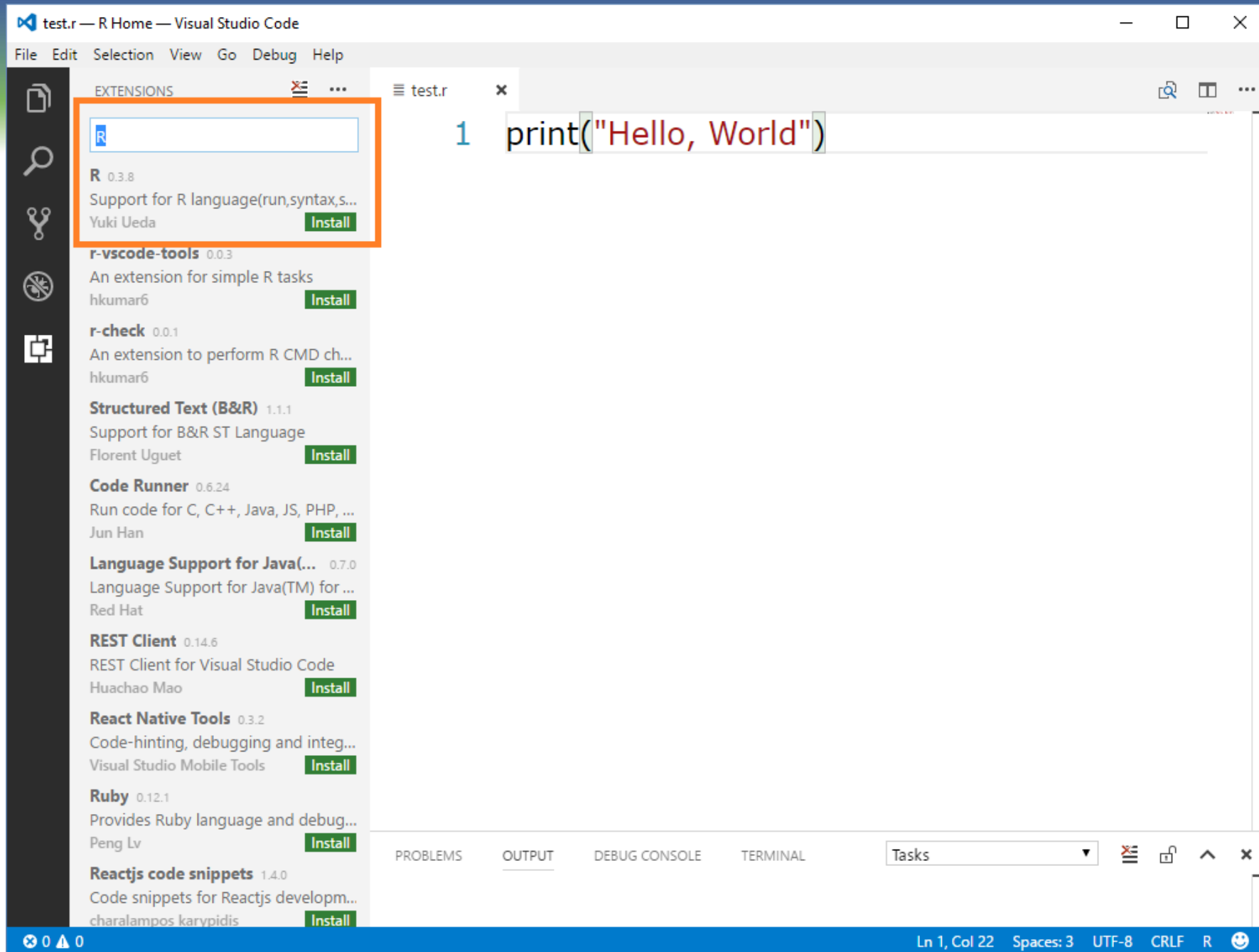


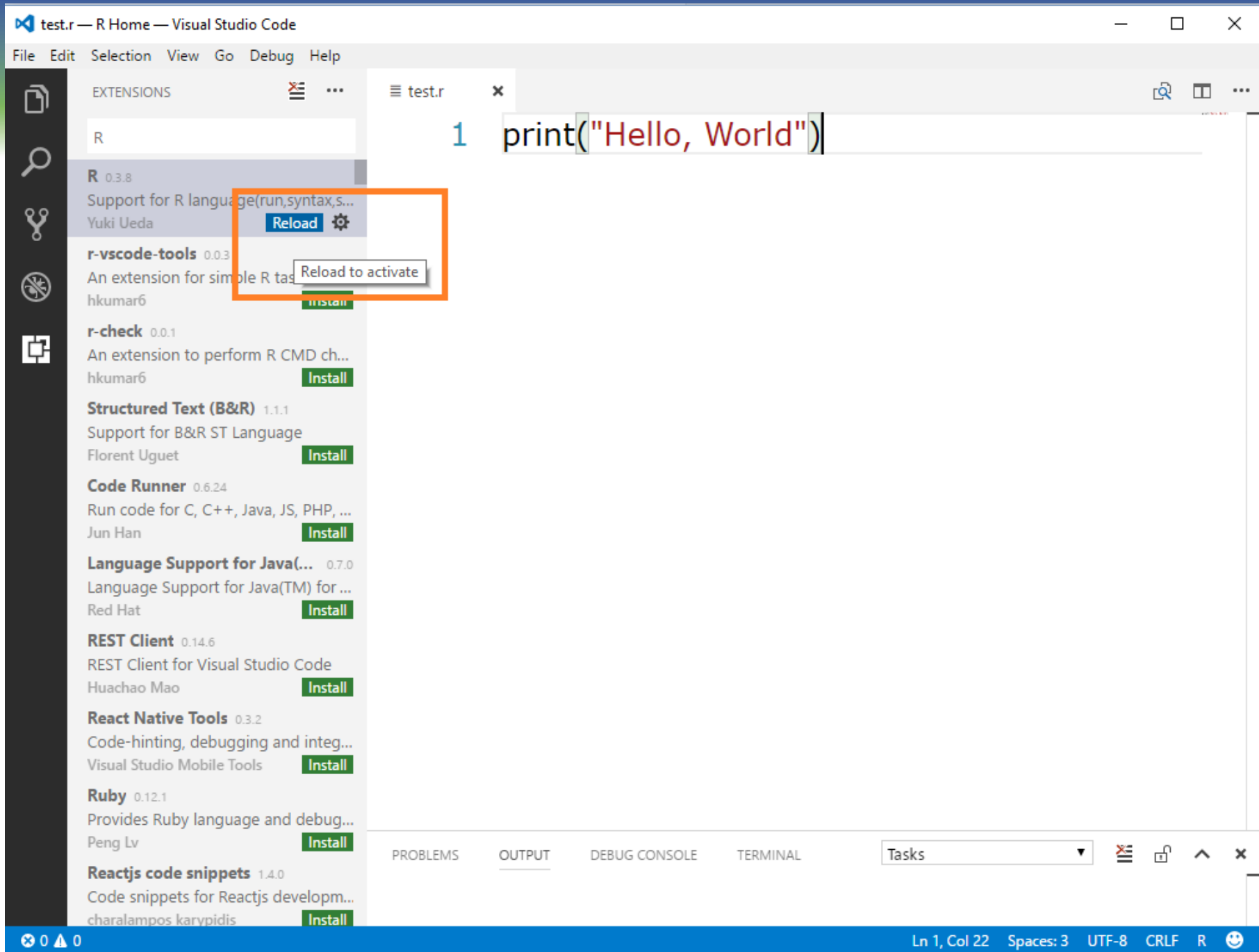
R tool : Microsoft Visual Studio Code

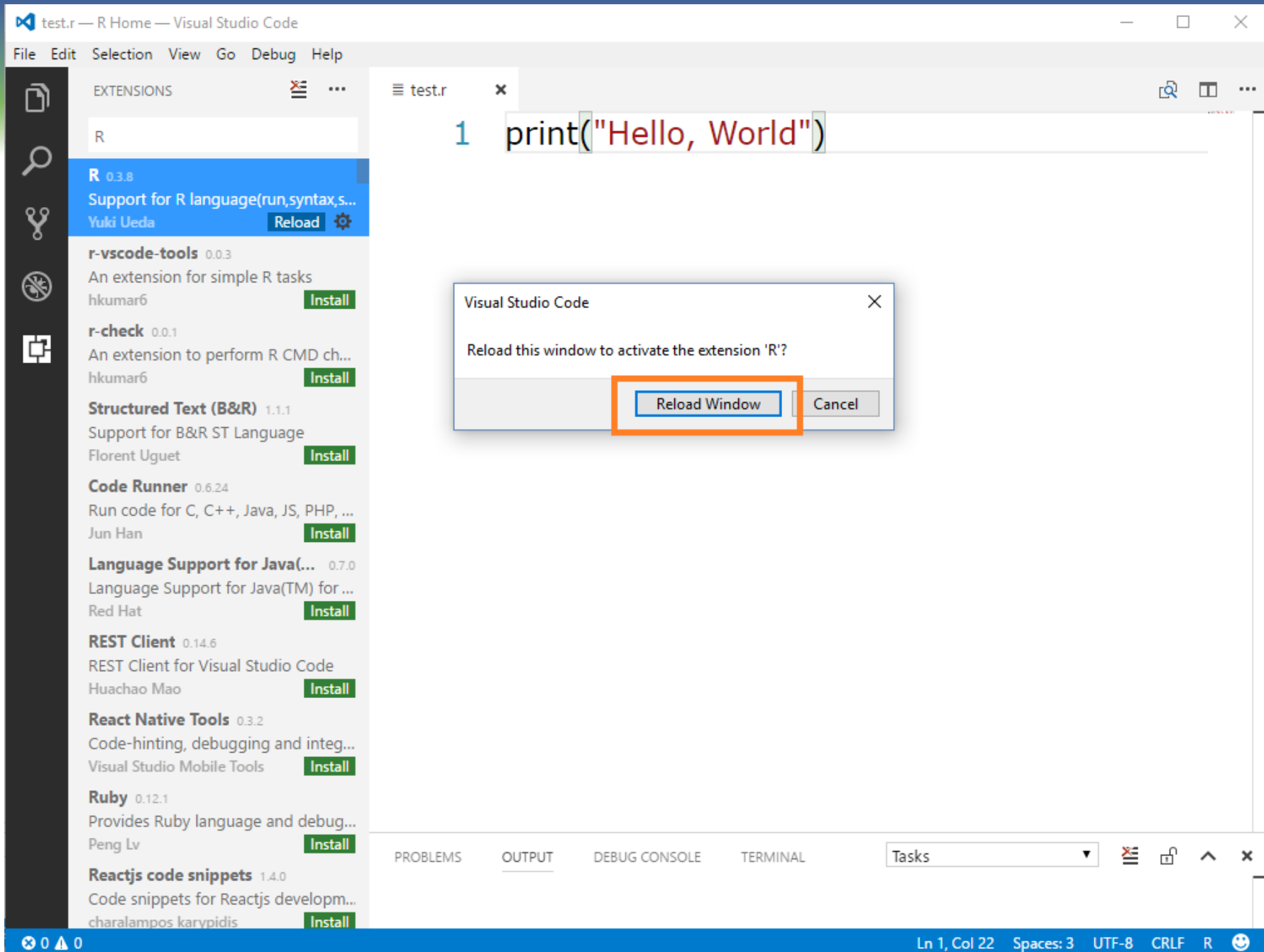
- <https://code.visualstudio.com/>

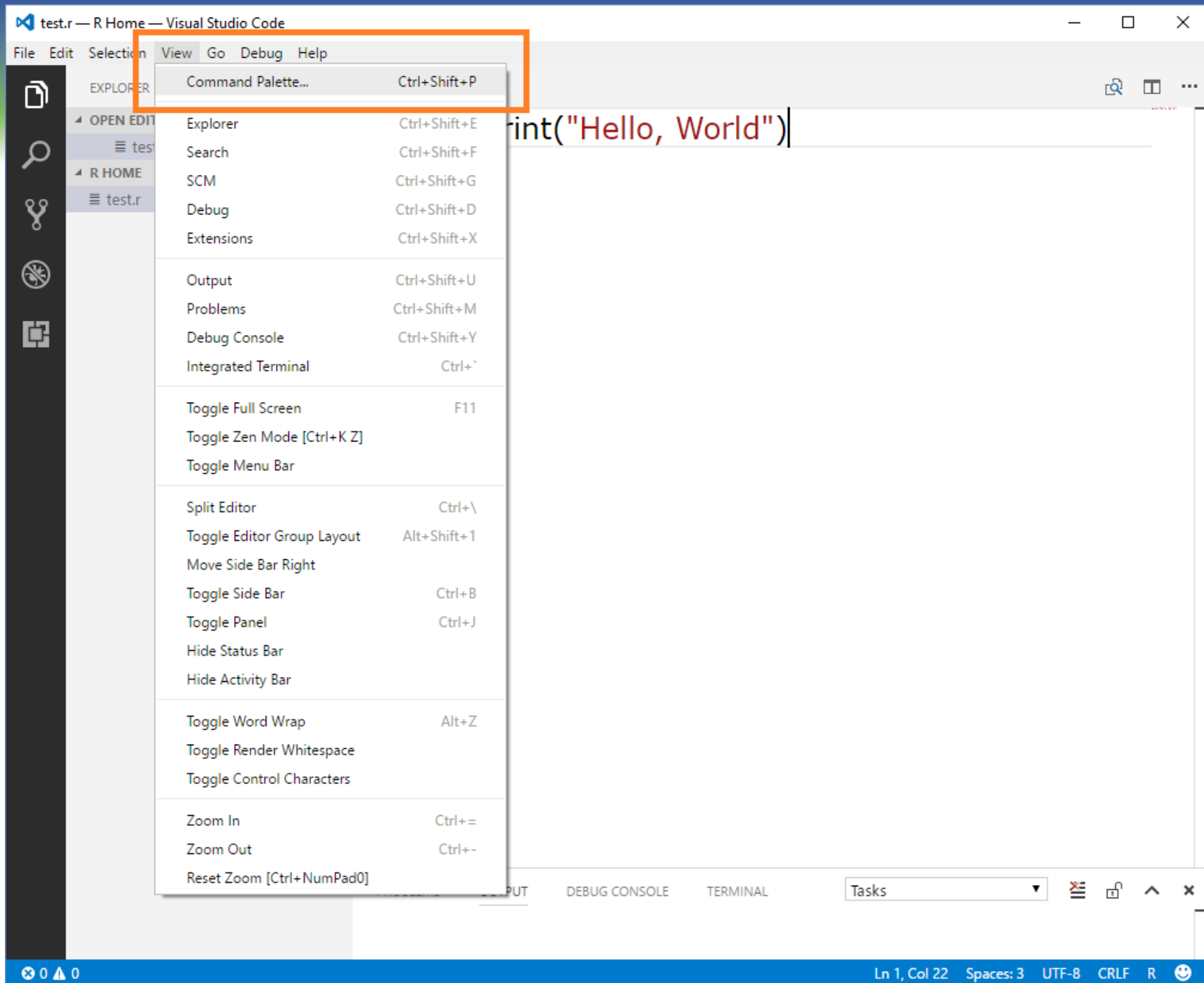


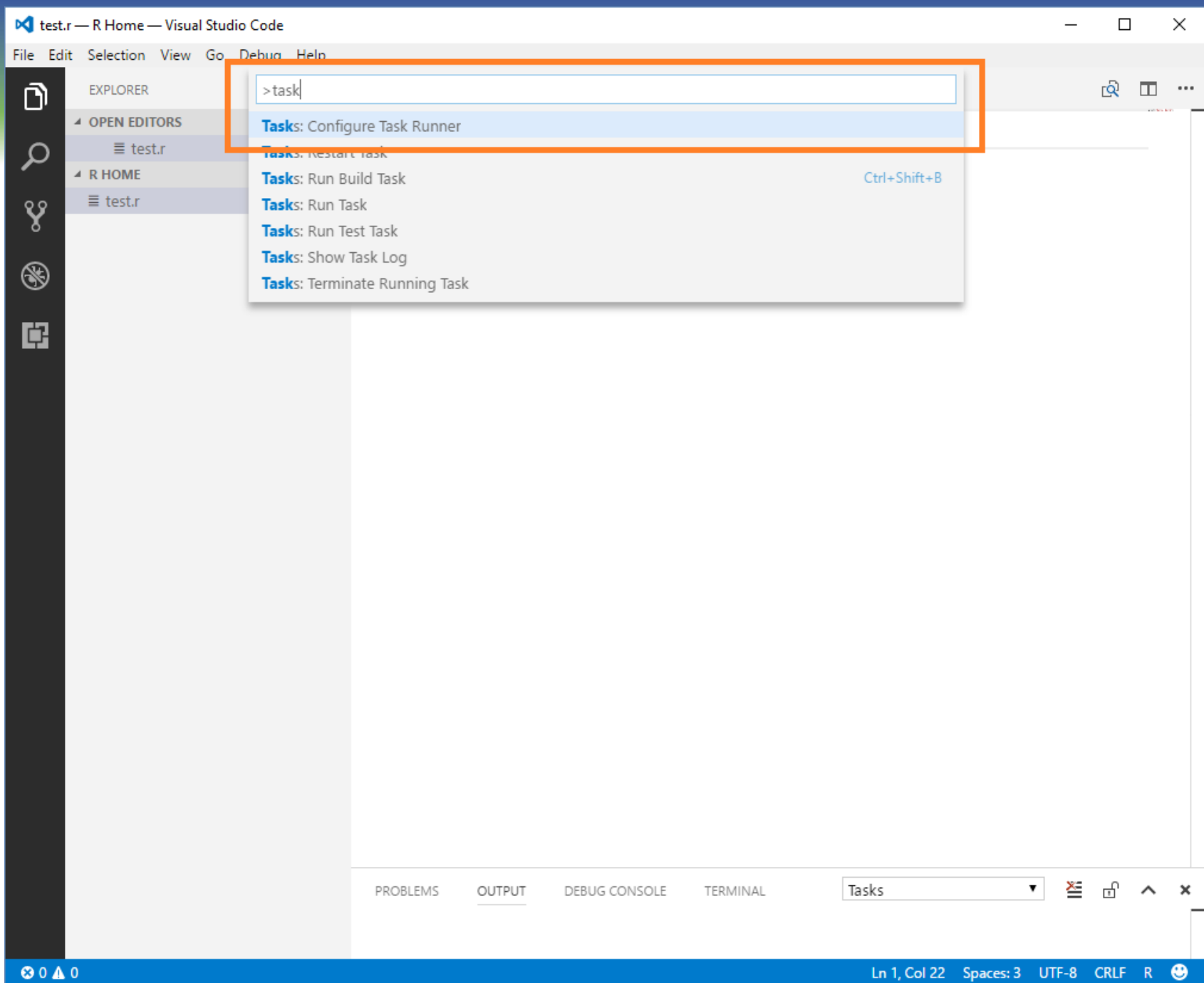


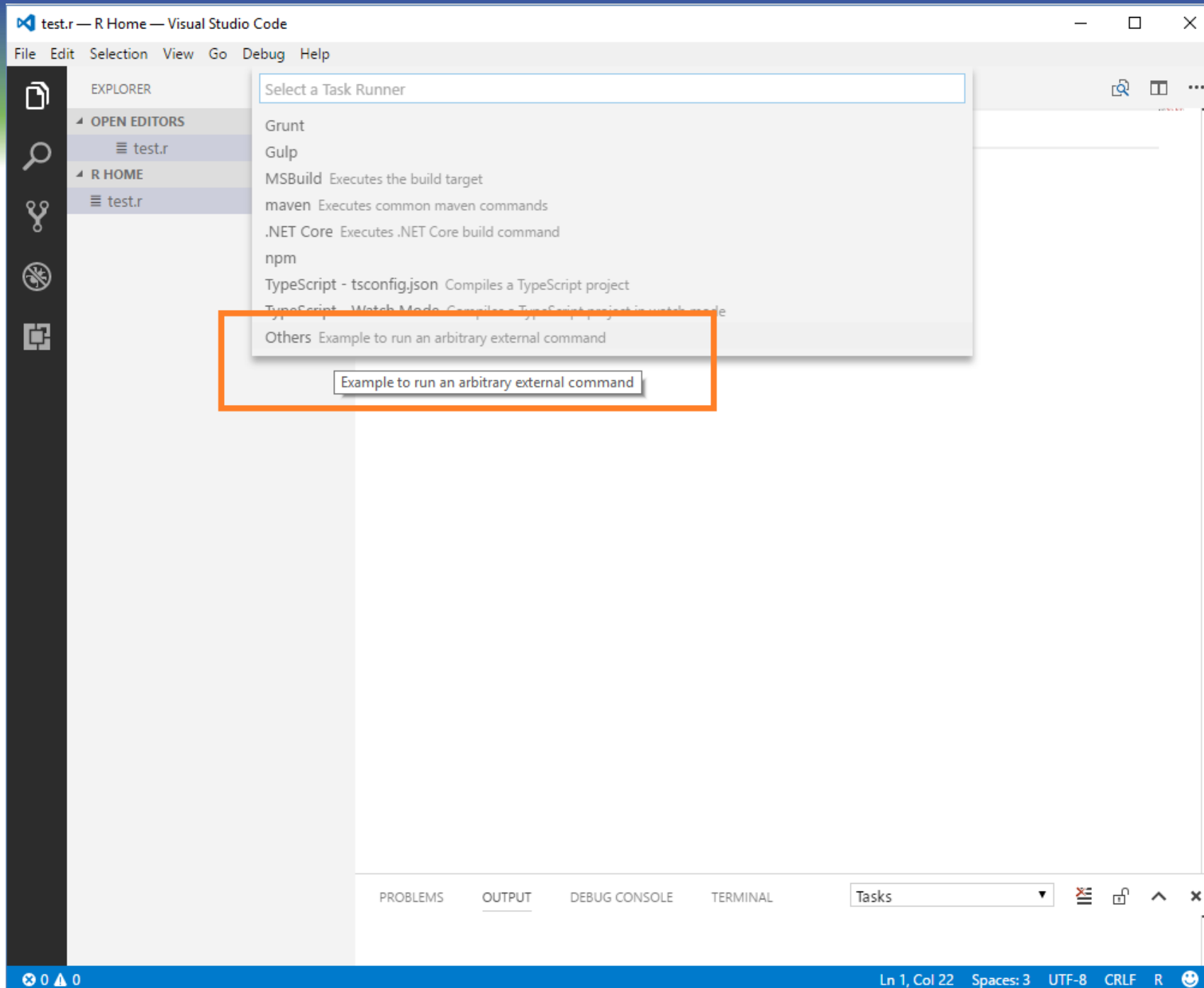


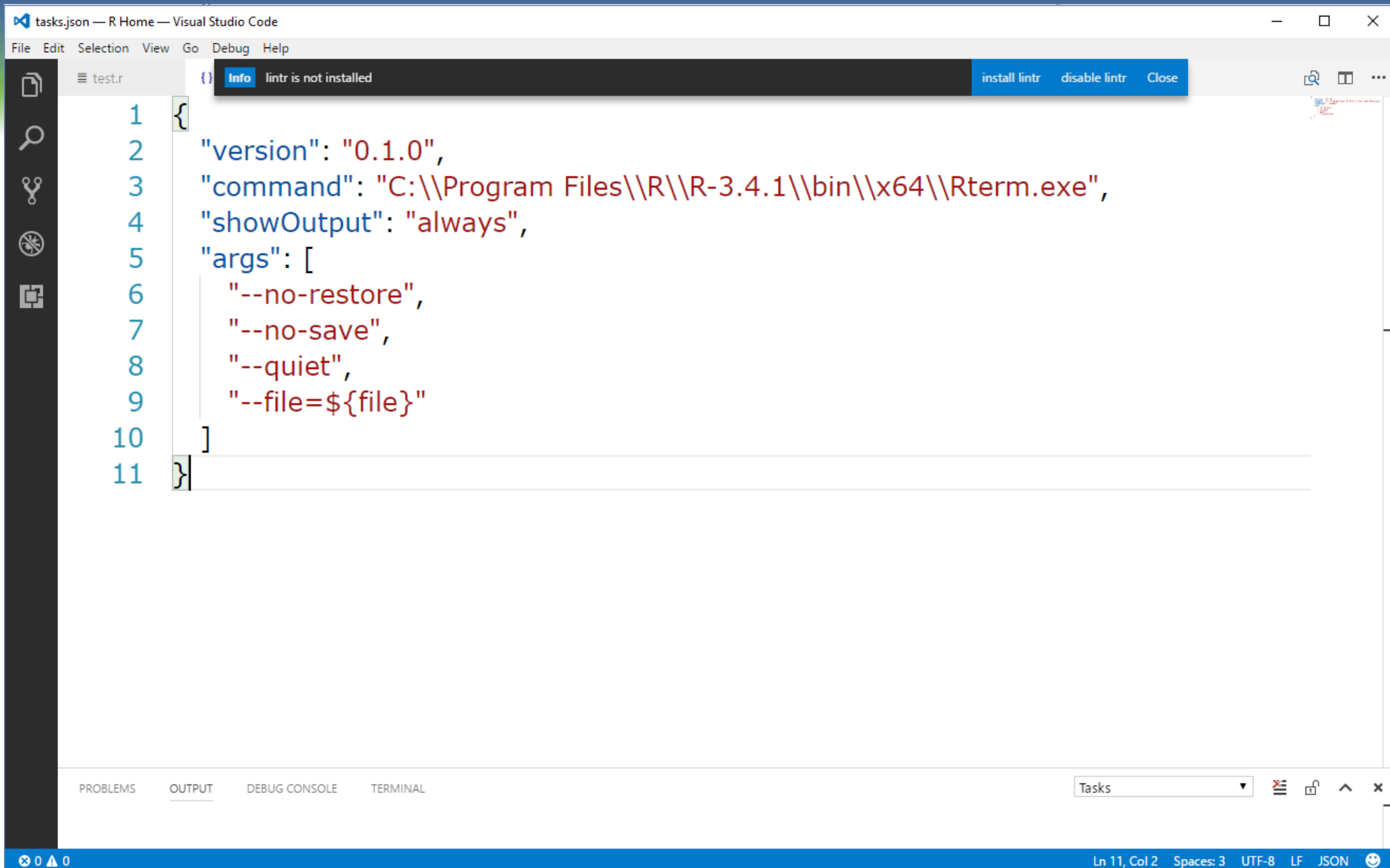














EXPLORER

OPEN EDITORS

test.r

R HOME

.vscode

{ } settings.json

{ } tasks.json

test.r



test.r

```
1 print("Hello, World")
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Tasks

```
> print("Hello, World")  
[1] "Hello, World"  
>
```

EXPLORER

test.r settings.json x

OPEN EDITORS

test.r settings.json C:\Us...

R HOME

.vscode settings.json tasks.json test.r

Search Settings

Total 348 Settings

USER SETTINGS

WORKSPACE SE

"html"). These have precedence over the default associations of the languages installed.

files. associations": {}

Editor (65)

Emmet (6)

Workbench (18)

1 // Place your settings in this file to overwrite the default settings

2 {

3 "editor.fontSize": 25,

4 "editor.fontFamily": "Verdana, Arial",

5 "editor.tabSize": 3,

6 "editor.wordWrap": "on",

7 "editor.rulers": [

8 100, 120

9],

10 "editor.cursorStyle": "line",

11 "editor.cursorBlinking": "phase",

12 "files.autoSave": "afterDelay",

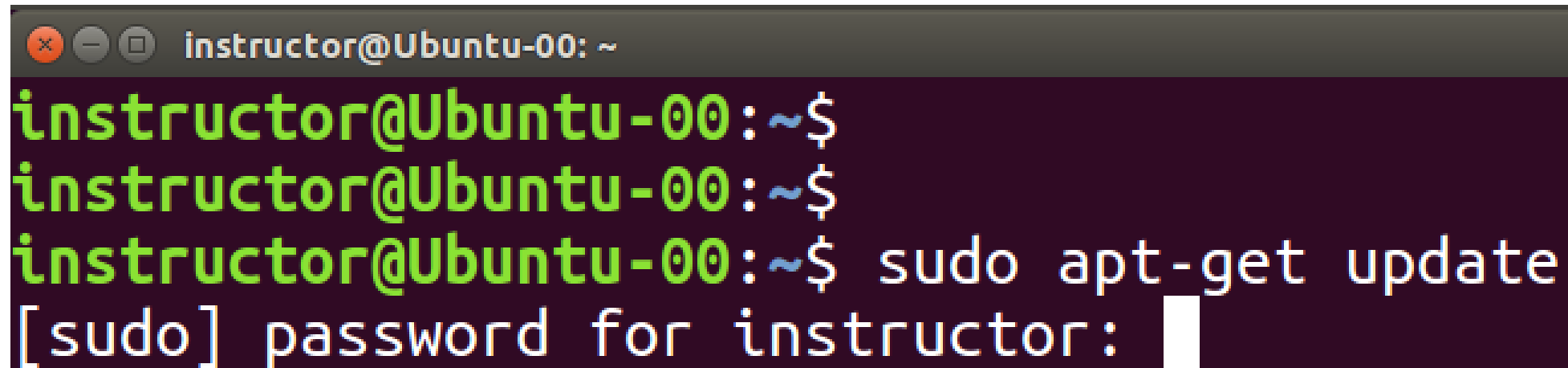
13 "workbench.colorTheme": "Visual Studio Light",

14 "workbench.welcome.enabled": true

15 }

Installation R on Ubuntu 16.04 LTS

1. apt-get update

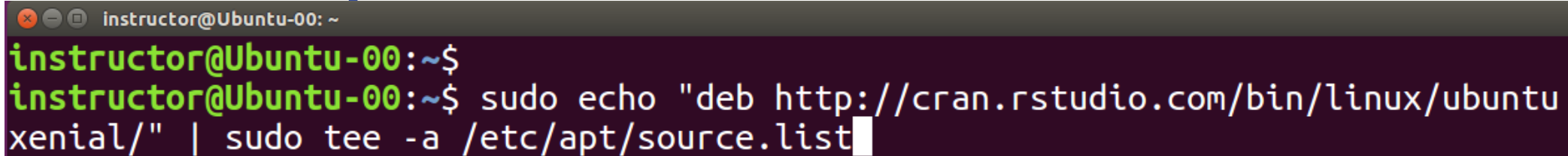


```
instructor@Ubuntu-00: ~  
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ sudo apt-get update  
[sudo] password for instructor: 
```

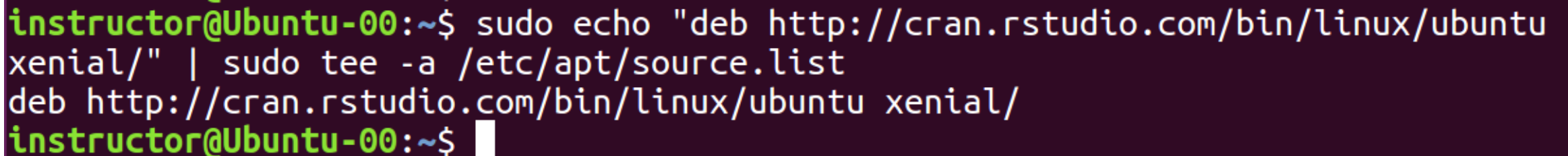

Installation R on Ubuntu 16.04 LTS (Cont.)

2. Add R repository

```
$ sudo echo "deb  
http://cran.rstudio.com/bin/linux/ubuntu xenial/" | sudo  
tee -a /etc/apt/sources.list
```

A terminal window with a dark background. The title bar shows 'instructor@Ubuntu-00: ~'. The prompt is 'instructor@Ubuntu-00:~\$'. The command entered is 'sudo echo "deb http://cran.rstudio.com/bin/linux/ubuntu xenial/" | sudo tee -a /etc/apt/source.list'.

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ sudo echo "deb http://cran.rstudio.com/bin/linux/ubuntu  
xenial/" | sudo tee -a /etc/apt/source.list
```

A terminal window with a dark background. The title bar shows 'instructor@Ubuntu-00: ~'. The prompt is 'instructor@Ubuntu-00:~\$'. The command entered is 'sudo echo "deb http://cran.rstudio.com/bin/linux/ubuntu xenial/" | sudo tee -a /etc/apt/source.list'. The output of the command is 'deb http://cran.rstudio.com/bin/linux/ubuntu xenial/'.

```
instructor@Ubuntu-00:~$ sudo echo "deb http://cran.rstudio.com/bin/linux/ubuntu  
xenial/" | sudo tee -a /etc/apt/source.list  
deb http://cran.rstudio.com/bin/linux/ubuntu xenial/  
instructor@Ubuntu-00:~$
```

Installation R on Ubuntu 16.04 LTS (Cont.)

3. Add R to Ubuntu Keyring

\$ gpg --keyserver keyserver.ubuntu.com --recv-key E084DAB9

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ gpg --keyserver keyserver.ubuntu.com --recv-key E084DAB9
```

```
instructor@Ubuntu-00:~$ gpg --keyserver keyserver.ubuntu.com --recv-key E084DAB9  
gpg: keyring `/home/instructor/.gnupg/secring.gpg' created  
gpg: keyring `/home/instructor/.gnupg/pubring.gpg' created  
gpg: requesting key E084DAB9 from hkp server keyserver.ubuntu.com  
gpg: /home/instructor/.gnupg/trustdb.gpg: trustdb created  
gpg: key E084DAB9: public key "Michael Rutter <marutter@gmail.com>" imported  
gpg: Total number processed: 1  
gpg:             imported: 1 (RSA: 1)  
instructor@Ubuntu-00:~$
```

Installation R on Ubuntu 16.04 LTS (Cont.)

4. Add R to Ubuntu Keyring

`$ gpg -a --export E084DAB9 | sudo apt-key add -`

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ gpg -a --export E084DAB9 | sudo apt-key add -
```

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ gpg -a --export E084DAB9 | sudo apt-key add -  
OK  
instructor@Ubuntu-00:~$
```

Installation R on Ubuntu 16.04 LTS (Cont.)

5. Install R-Base

\$ sudo apt-get update

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ sudo apt-get update
```

Installation R on Ubuntu 16.04 LTS (Cont.)

5. Install R-Base

\$ sudo apt-get install r-base r-base-dev

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ sudo apt-get install r-base r-base-dev
```

Installation R on Ubuntu 16.04 LTS (Cont.)

```
instructor@Ubuntu-00: ~  
readline-doc libmail-box-perl python-setuptools python-rsvg ess r-doc-info  
| r-doc-pdf r-mathlib texlive-base texlive-latex-base  
texlive-generic-recommended texlive-fonts-recommended texlive-fonts-extra  
texlive-extra-utils texlive-latex-recommended texlive-latex-extra texinfo  
The following NEW packages will be installed:  
autoconf automake autotools-dev bzip2-doc cdbb debhelper  
dh-strip-nondeterminism dh-translations gfortran gfortran-5 intltool  
libblas-common libblas-dev libblas3 libbz2-dev  
libfile-stripnondeterminism-perl libgfortran-5-dev libgfortran3 libjpeg-dev  
libjpeg-turbo8-dev libjpeg8-dev liblapack-dev liblapack3 liblzma-dev  
libmail-sendmail-perl libncurses5-dev libpcre3-dev libpcre32-3 libpcrecpp0v5  
libpng12-dev libreadline-dev libreadline6-dev libsigsegv2  
libsys-hostname-long-perl libtinfo-dev m4 po-debconf python-pkg-resources  
python-scour python-six r-base r-base-core r-base-dev r-base-html r-cran-boot  
r-cran-class r-cran-cluster r-cran-codetools r-cran-foreign r-cran-kernsmooth  
r-cran-lattice r-cran-mass r-cran-matrix r-cran-mgcv r-cran-nlme r-cran-nnet  
r-cran-rpart r-cran-spatial r-cran-survival r-doc-html r-recommended  
zlib1g-dev  
The following packages will be upgraded:  
zlib1g  
1 upgraded, 62 newly installed, 0 to remove and 99 not upgraded.  
Need to get 53.9 MB of archives.  
After this operation, 121 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y
```

Installation R on Ubuntu 16.04 LTS (Cont.)

6. Installing R-Studio

\$ sudo apt-get install gdebi-core

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ sudo apt-get install gdebi-core
```

Installation R on Ubuntu 16.04 LTS (Cont.)

```
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.8.0-45 linux-headers-4.8.0-45-generic linux-headers-4.8.0-46
  linux-headers-4.8.0-46-generic linux-headers-4.8.0-49
  linux-headers-4.8.0-49-generic linux-image-4.8.0-45-generic
  linux-image-4.8.0-46-generic linux-image-4.8.0-49-generic
  linux-image-extra-4.8.0-45-generic linux-image-extra-4.8.0-46-generic
  linux-image-extra-4.8.0-49-generic
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  gdebi-core
0 upgraded, 1 newly installed, 0 to remove and 99 not upgraded.
Need to get 9,716 B of archives.
After this operation, 135 kB of additional disk space will be used.
Get:1 http://kr.archive.ubuntu.com/ubuntu xenial/main amd64 gdebi-core all 0.9.5.7
ubuntu1 [9,716 B]
Fetched 9,716 B in 0s (119 kB/s)
Selecting previously unselected package gdebi-core.
(Reading database ... 326226 files and directories currently installed.)
Preparing to unpack .../gdebi-core_0.9.5.7ubuntu1_all.deb ...
Unpacking gdebi-core (0.9.5.7ubuntu1) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up gdebi-core (0.9.5.7ubuntu1) ...
instructor@Ubuntu-00:~$
```


Installation R on Ubuntu 16.04 LTS (Cont.)

6. Installing R-Studio

\$ wget https://download1.rstudio.org/rstudio-1.0.143-amd64.deb

```
instructor@Ubuntu-00:~$  
instructor@Ubuntu-00:~$ wget https://download1.rstudio.org/rstudio-1.0.143-amd64.deb
```

```
instructor@Ubuntu-00:~$ wget https://download1.rstudio.org/rstudio-1.0.143-amd64.deb  
--2017-07-04 17:32:57-- https://download1.rstudio.org/rstudio-1.0.143-amd64.deb  
Resolving download1.rstudio.org (download1.rstudio.org)... 54.230.249.193, 54.230.249.51,  
54.230.249.203, ...  
Connecting to download1.rstudio.org (download1.rstudio.org)|54.230.249.193|:443... connect  
ed.  
HTTP request sent, awaiting response... 200 OK  
Length: 96607276 (92M) [application/x-deb]  
Saving to: 'rstudio-1.0.143-amd64.deb'  
  
rstudio-1.0.143-amd64. 100%[=====>] 92.13M 58.5MB/s in 1.6s  
  
2017-07-04 17:32:58 (58.5 MB/s) - 'rstudio-1.0.143-amd64.deb' saved [96607276/96607276]  
  
instructor@Ubuntu-00:~$
```

Installation R on Ubuntu 16.04 LTS (Cont.)

6. Installing R-Studio

`$ sudo gdebi -n rstudio-0.99.896-amd64.deb`

```
instructor@Ubuntu-00:~$ ls
Desktop    Dropbox    Music      Public     Videos
Documents  Eclipse    NodeHome   rstudio-1.0.143-amd64.deb WebHome
Downloads  examples.desktop Pictures    Templates
instructor@Ubuntu-00:~$ sudo gdebi -n rstudio-1.0.143-amd64.deb
```

Installation R on Ubuntu 16.04 LTS (Cont.)

