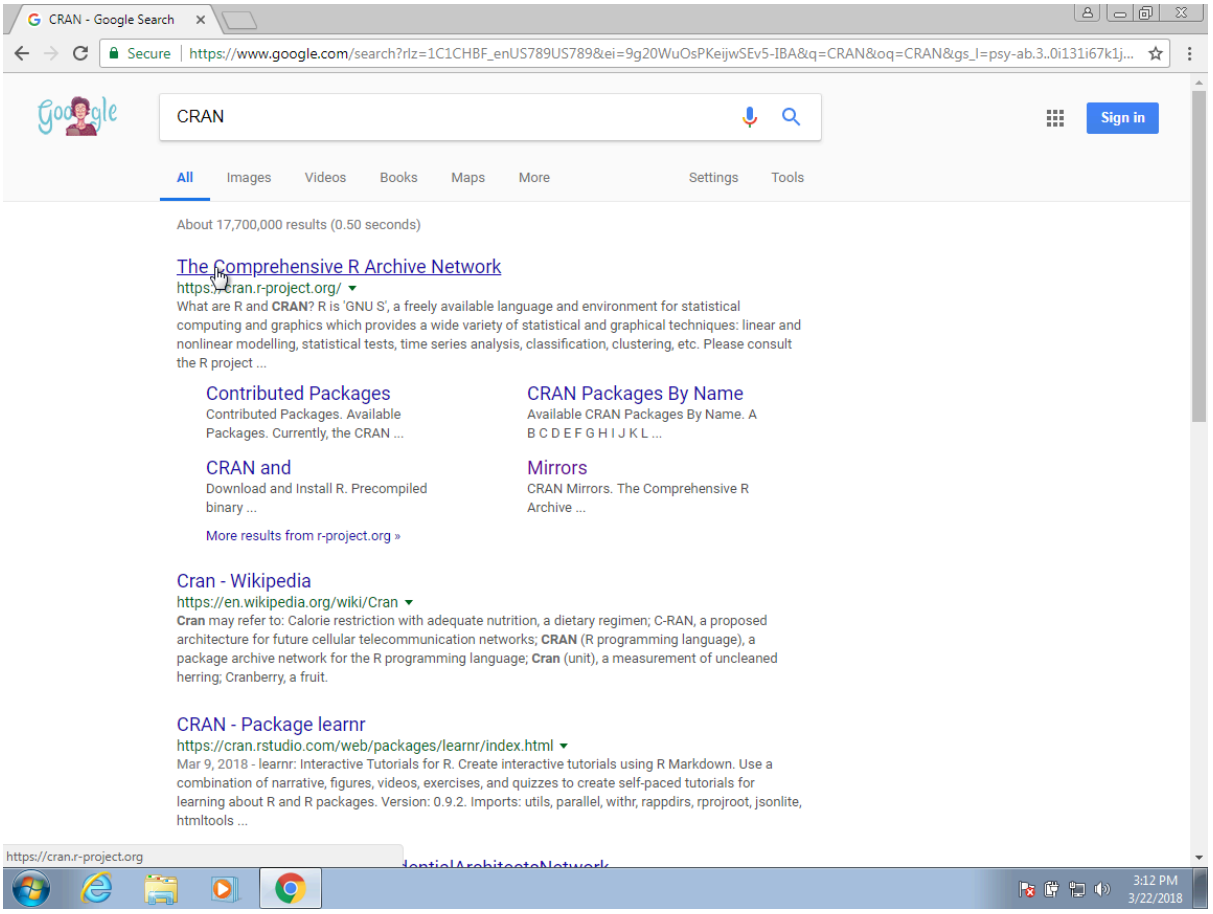
Installing R and RStudio

The instructions below include screen shots from the installation process in which we used the Chrome browser which, although not necessary, you can freely download and install from here: https://www.google.com/chrome/.

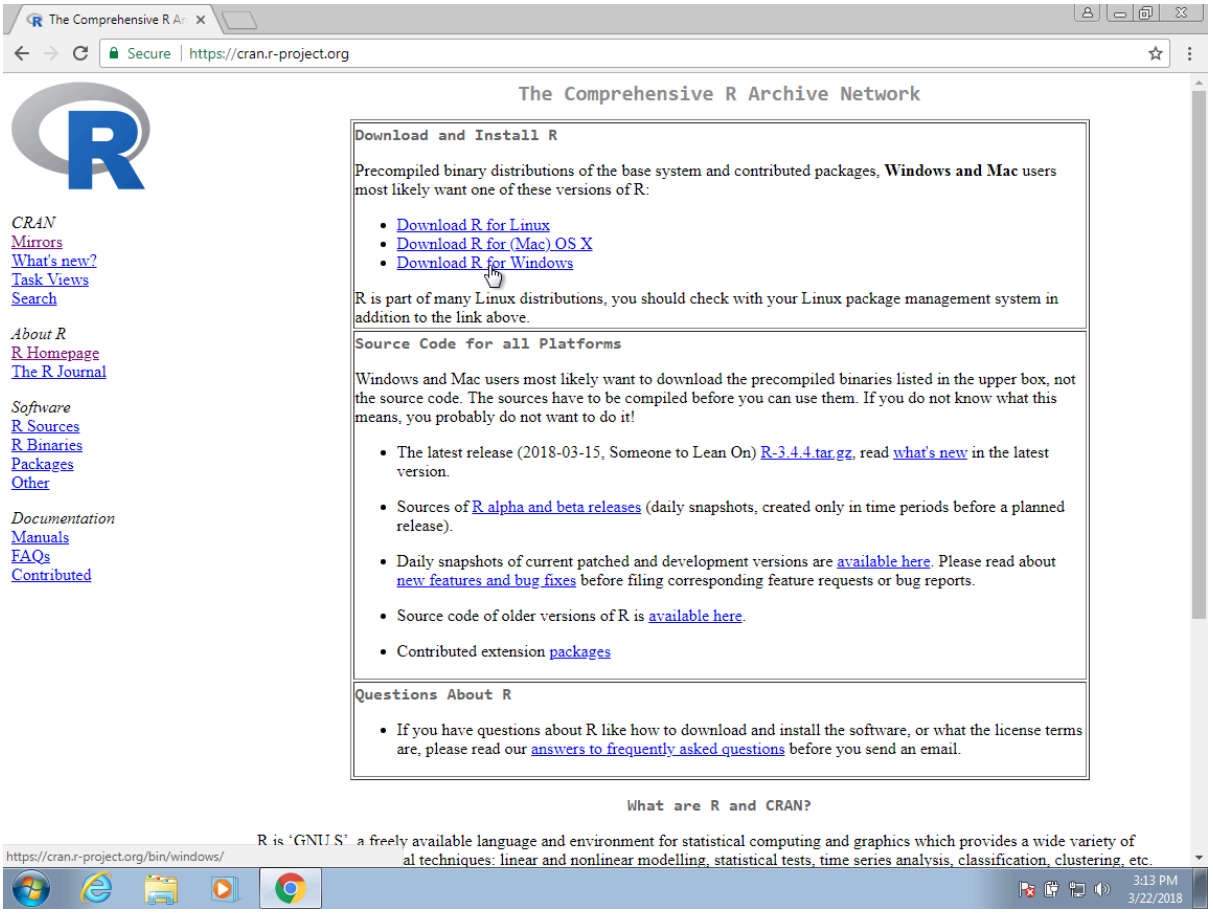
Installing R

RStudio is an interactive desktop environment, but it is not R, nor does it include R when you download and install it. Therefore, to use RStudio, we first need to install R.

1. You can download R from the Comprehensive R Archive Network (CRAN). Search for CRAN on your browser:

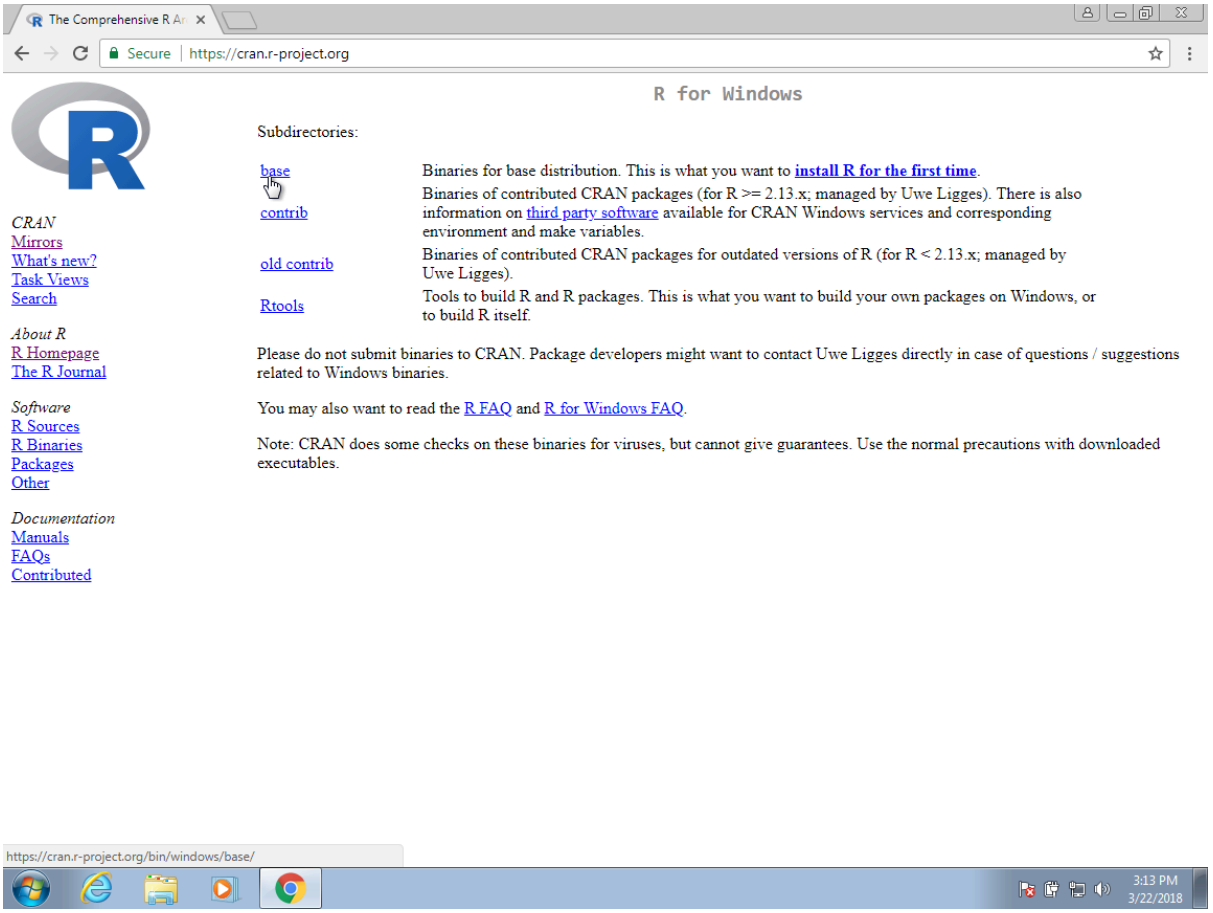


2. Once on the CRAN page, select the version for your operating system: Linux, Mac OS X, or Windows.

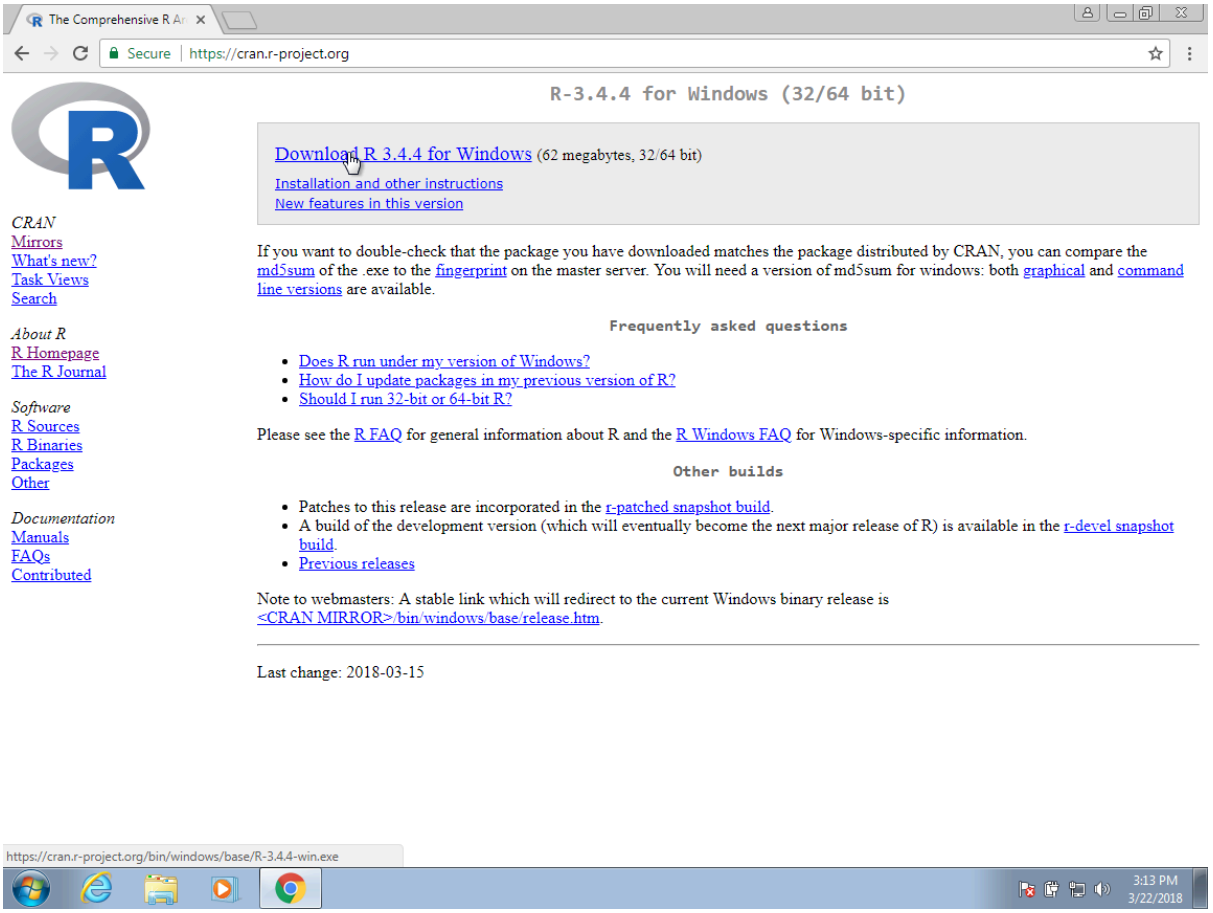


Here we show screenshots for Windows, but the process is similar for the other platforms. When they differ, we will also show screenshots for Mac OS X.

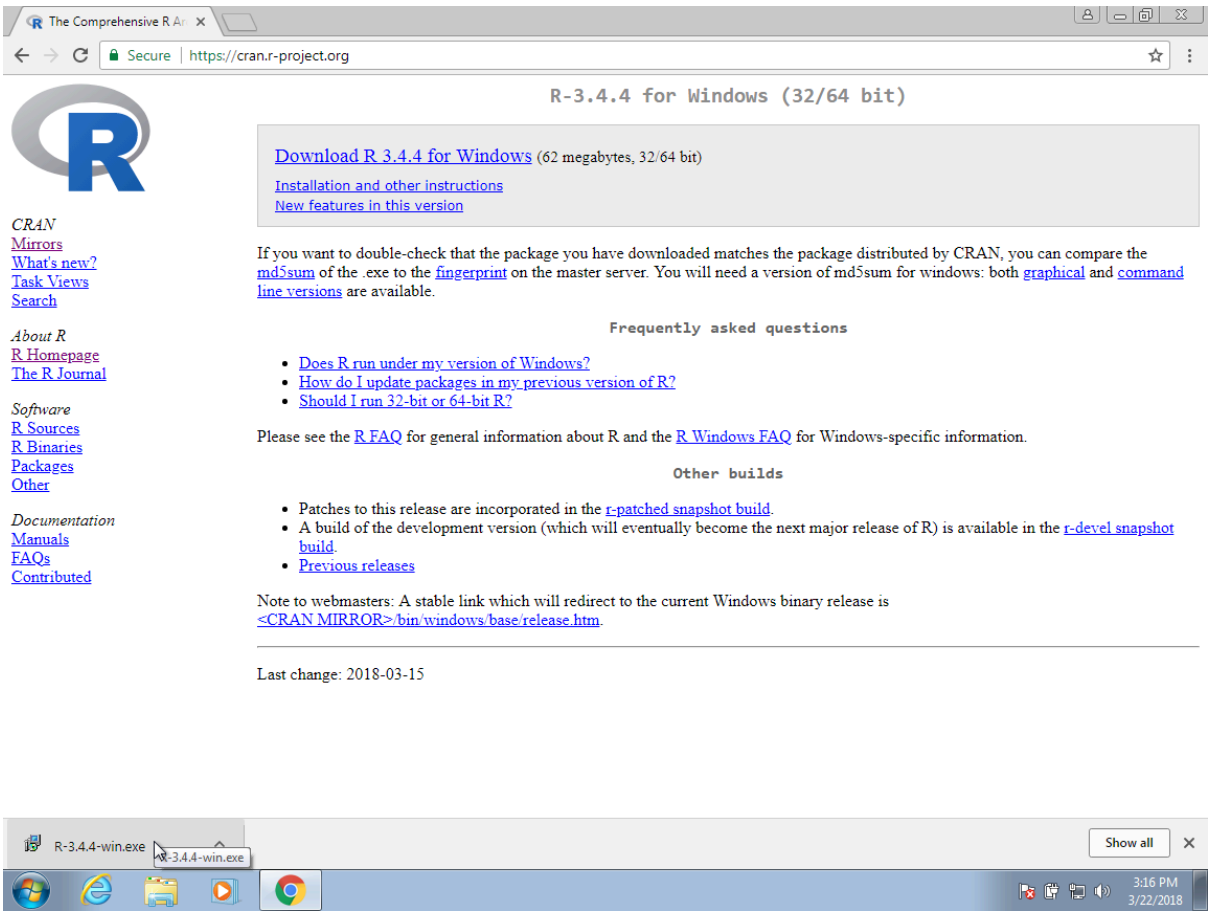
3. Once at the CRAN download page, you will have several choices. You want to install the *base* subdirectory. This installs the basic packages you need to get started. We will later learn how to install other needed packages from within R, rather than from this webpage.



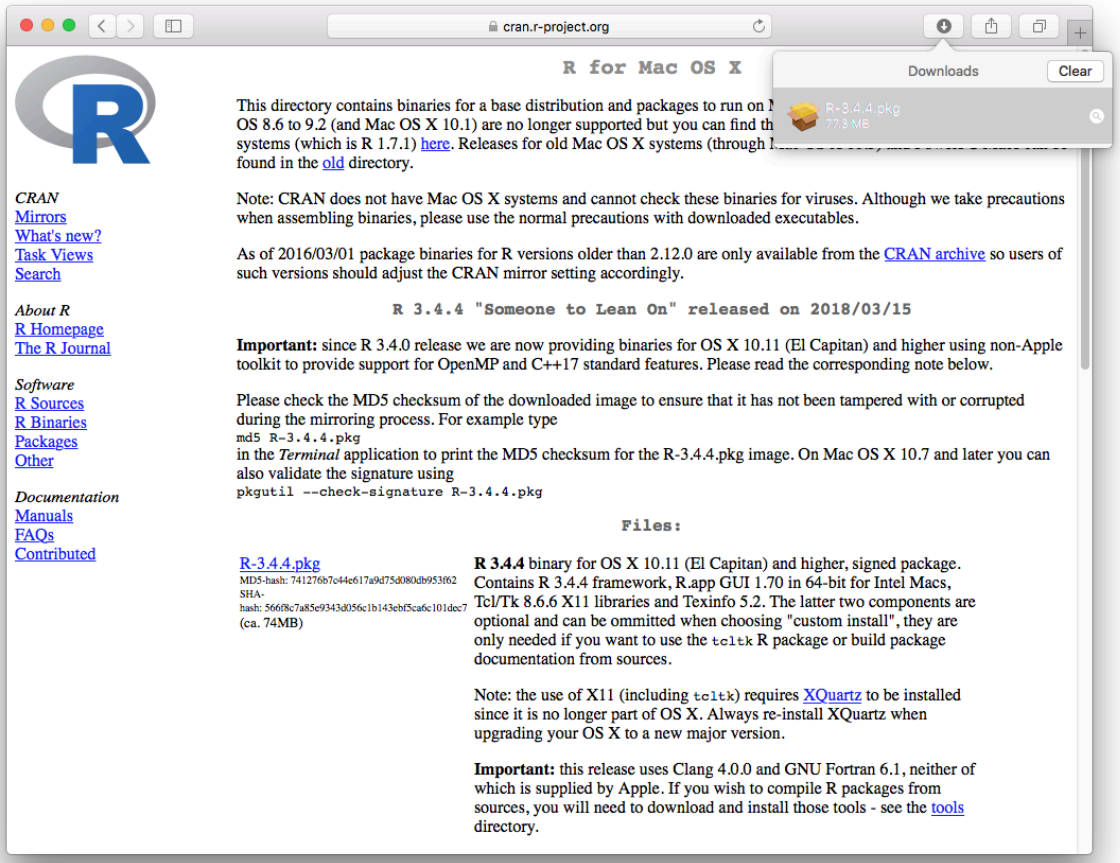
4. Click on the link for the latest version to start the download.



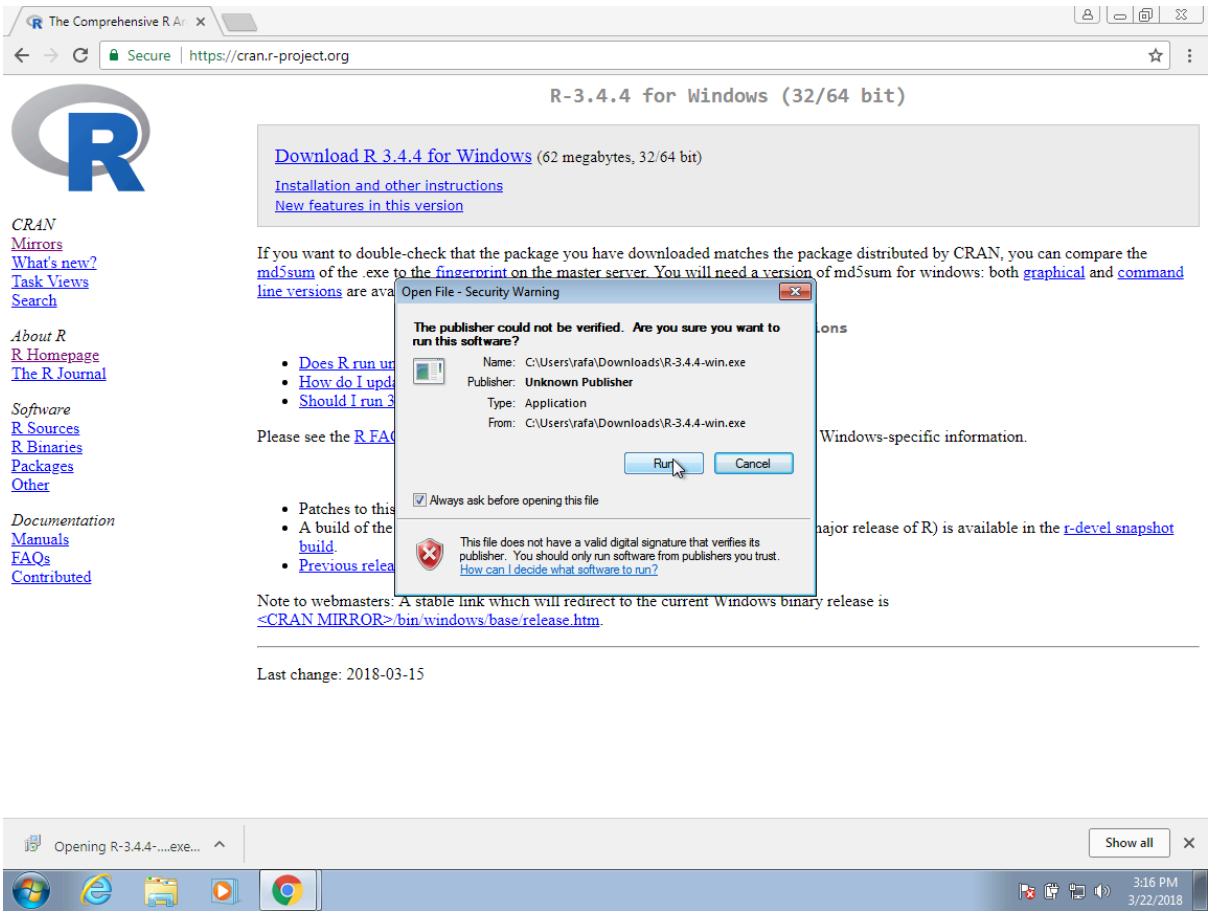
5. If you are using Chrome, at the bottom of your browser you should see a tab that shows you the progress of the download. Once the installer file downloads, you can click on that tab to start the installation process. Other browsers may be different, so you will have to find where they store downloaded files and click on them to get the process started.



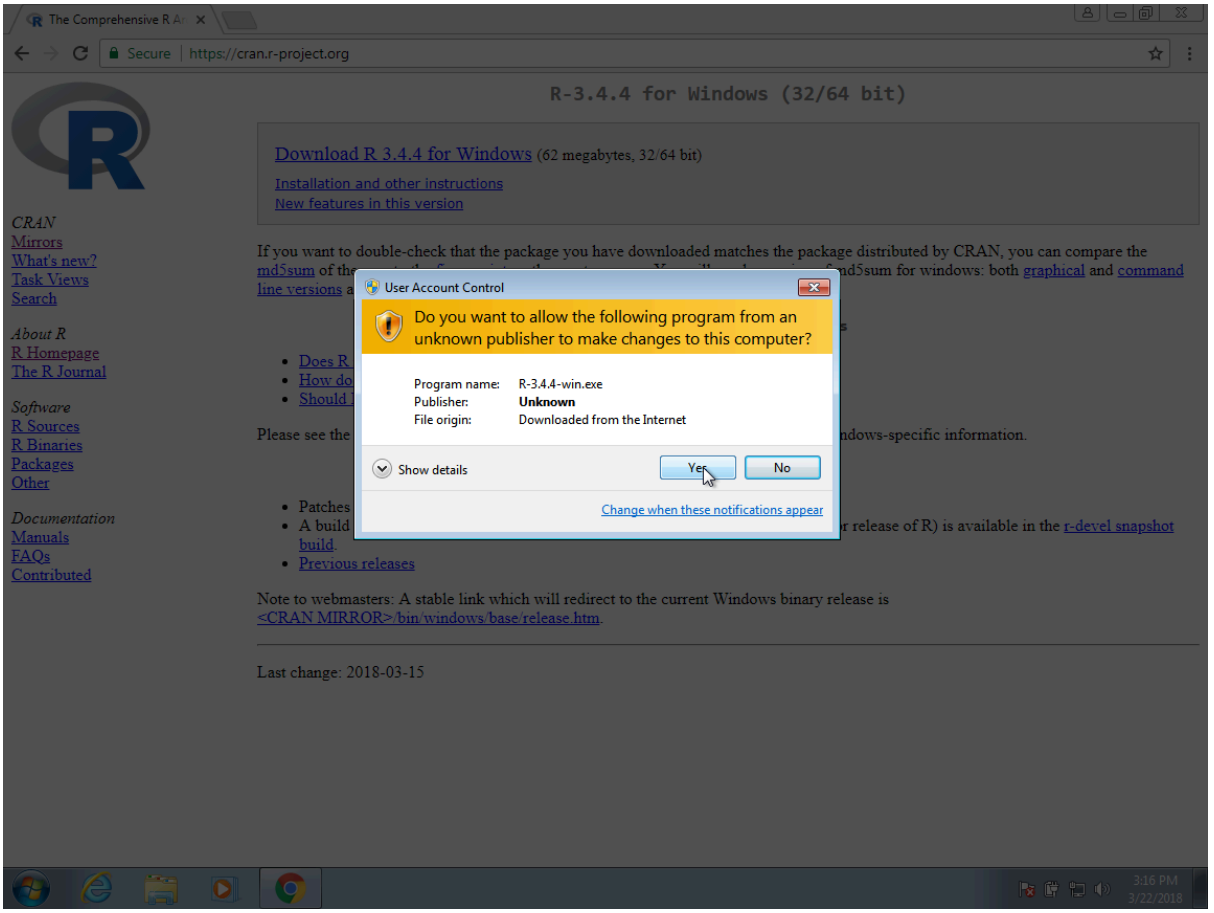
If using Safari on a Mac, you can access the download through the download button.



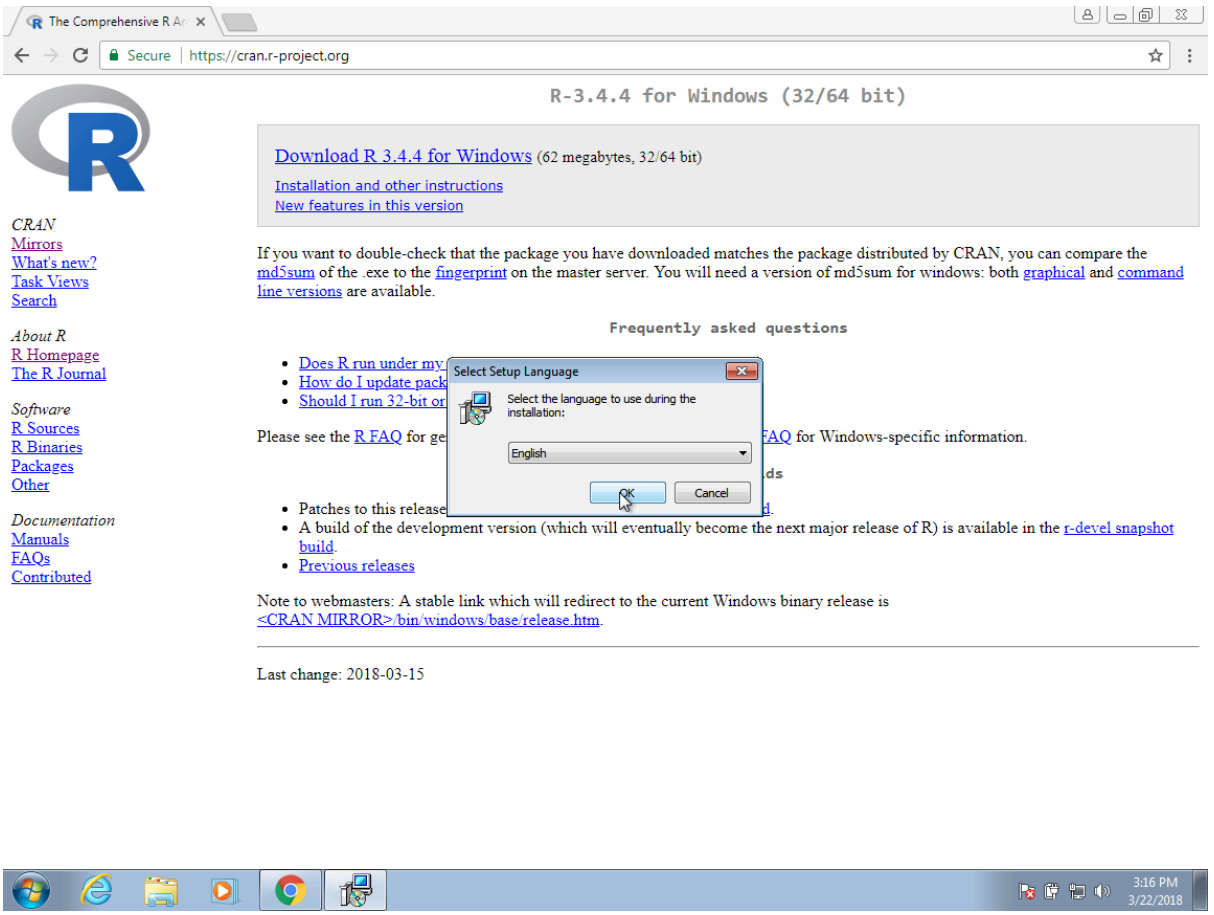
6. You can now click through different choices to finish the installation. We recommend you select all the default choices.



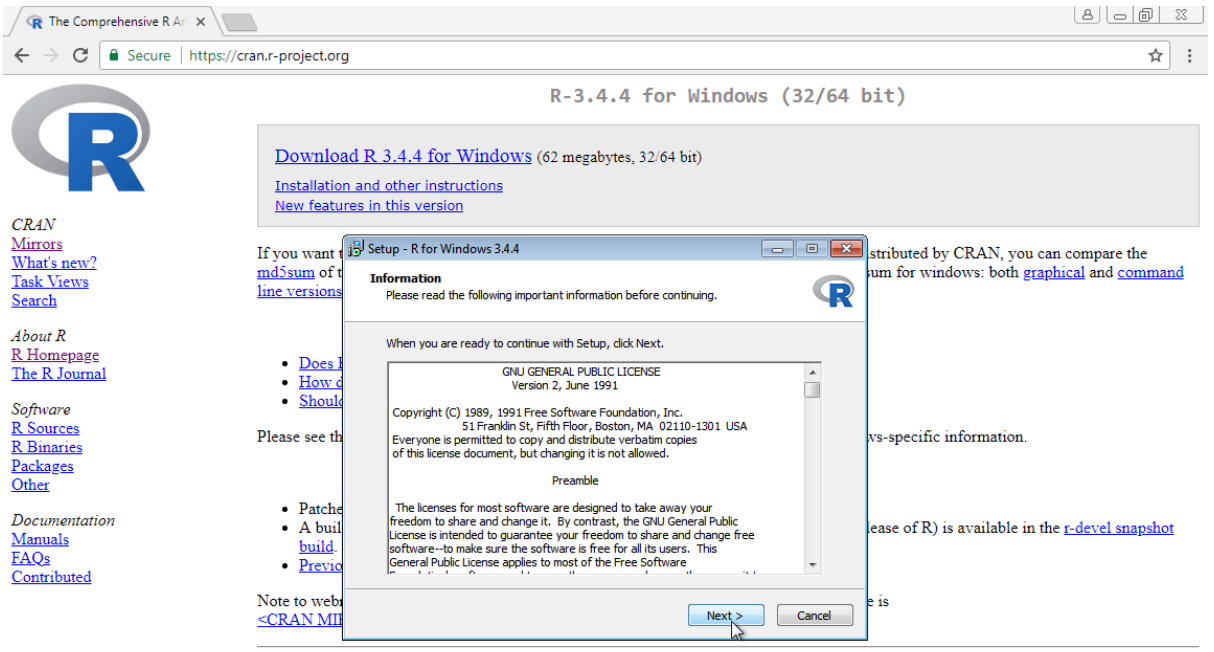
Select the default even when you get an ominous warning.



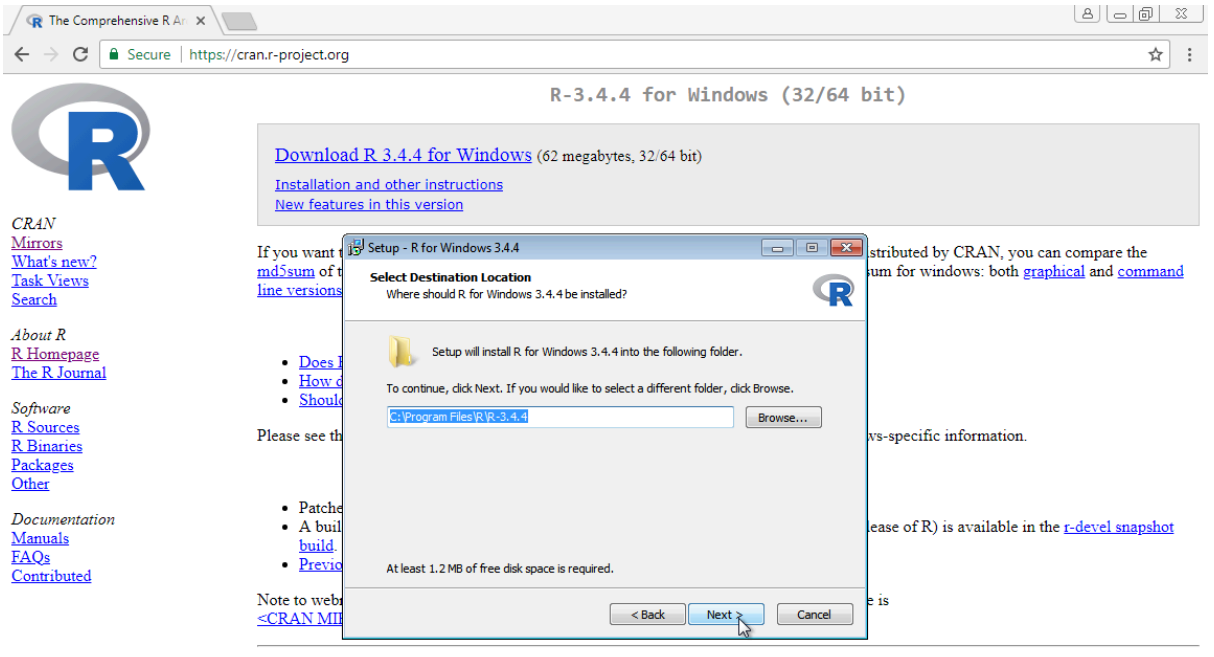
When selecting the language, consider that it will be easier to follow the course material if you select English.



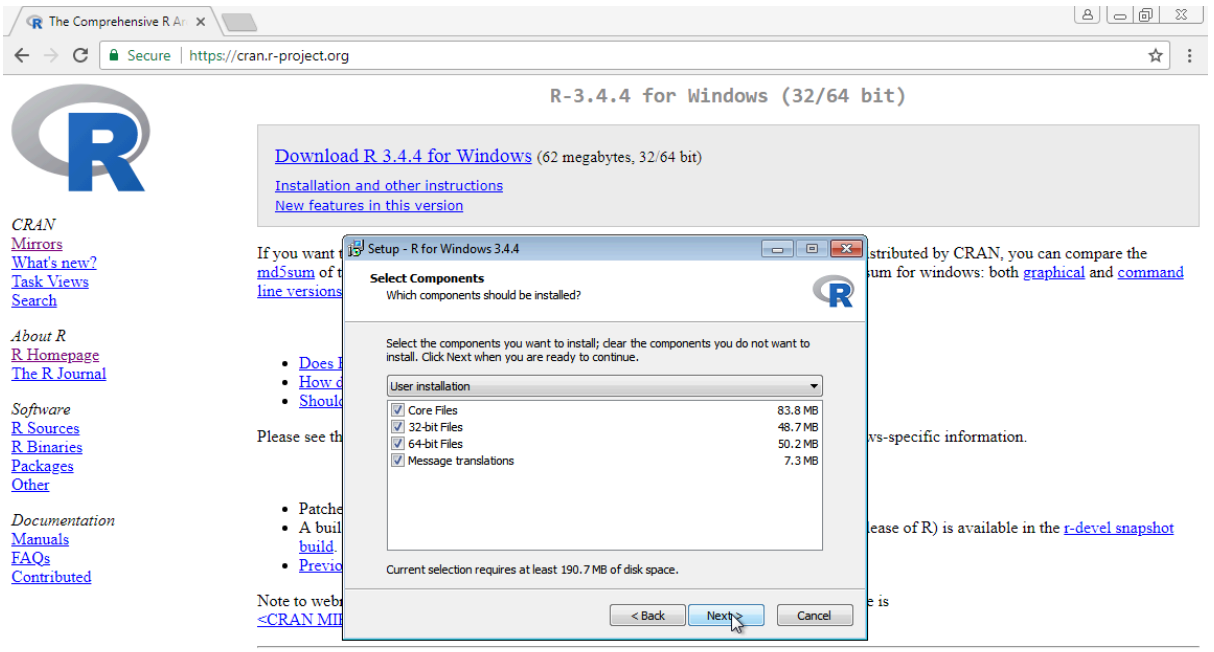
Continue to select all the defaults:


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Setup - R for Windows 3.4.4
Information
Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble
The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Next >
Cancel
Last change: 2018-03-15

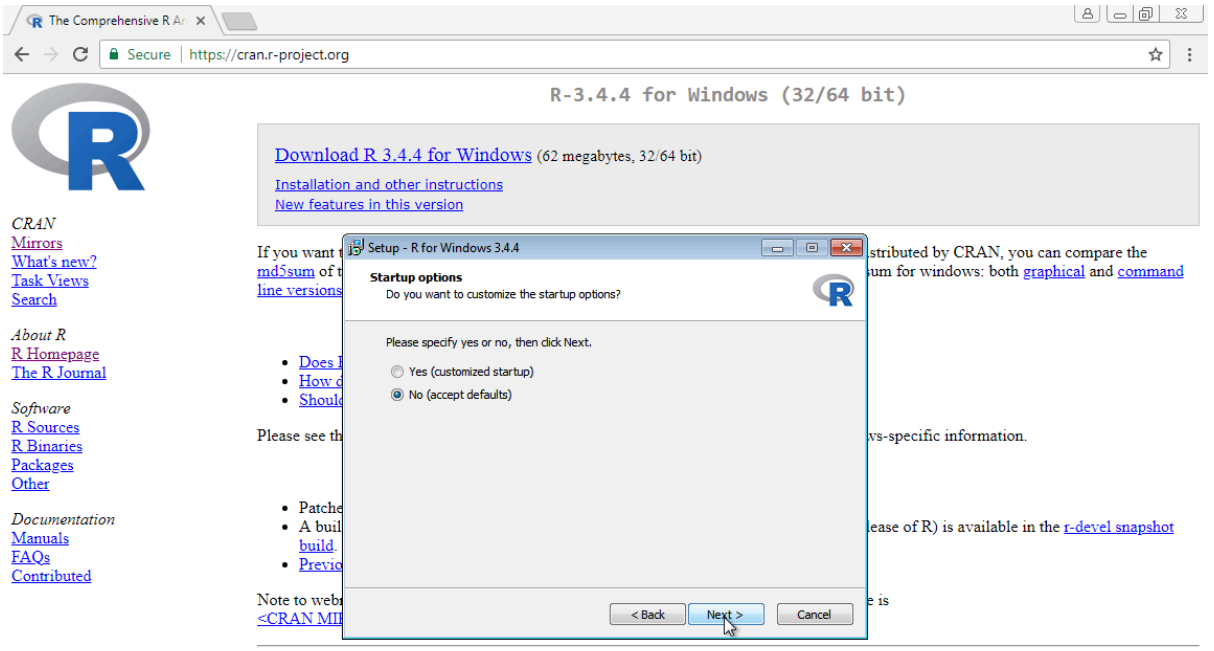

3:16 PM
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Contributed
Setup - R for Windows 3.4.4
Select Destination Location
Where should R for Windows 3.4.4 be installed?
Setup will install R for Windows 3.4.4 into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\R\R-3.4.4
Browse...
At least 1.2 MB of free disk space is required.
< Back
Next >
Cancel
Last change: 2018-03-15

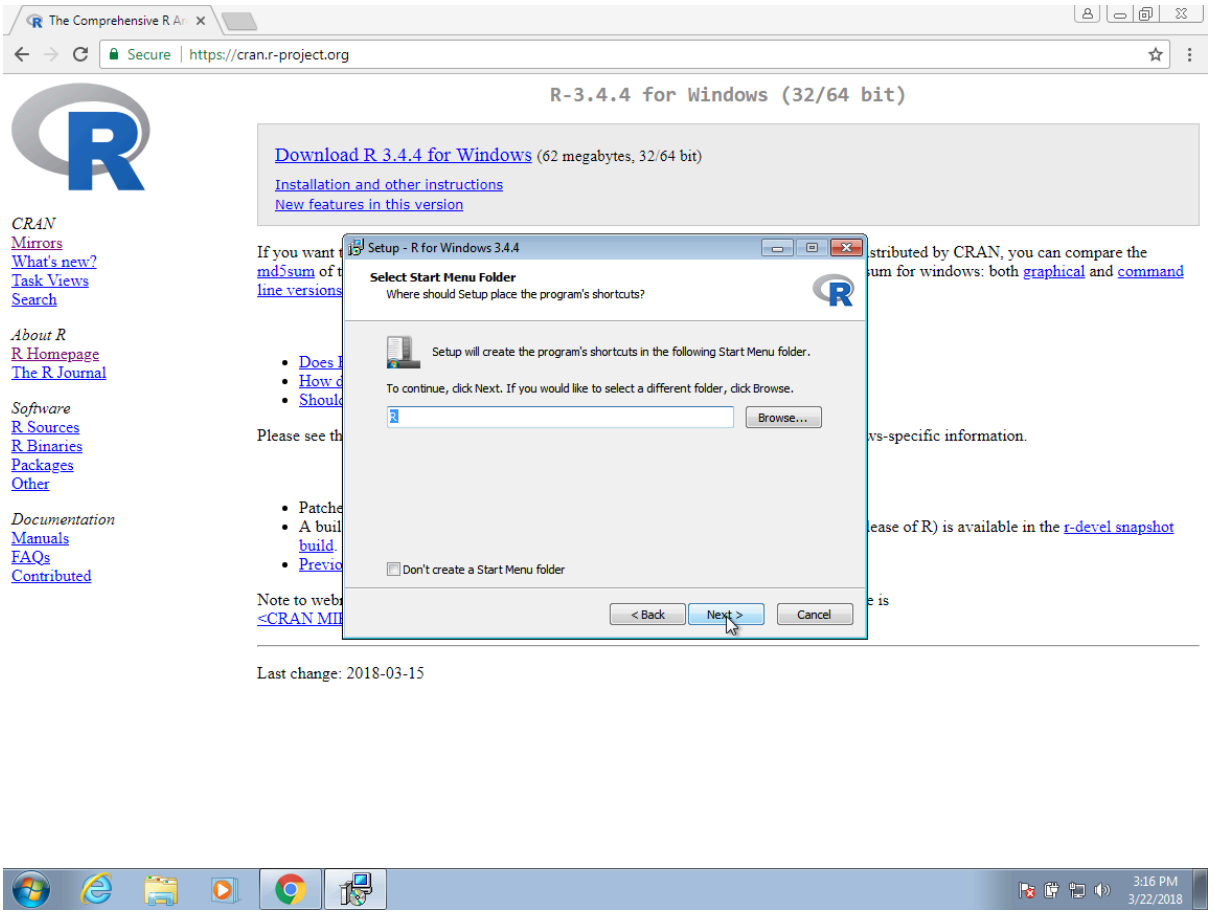

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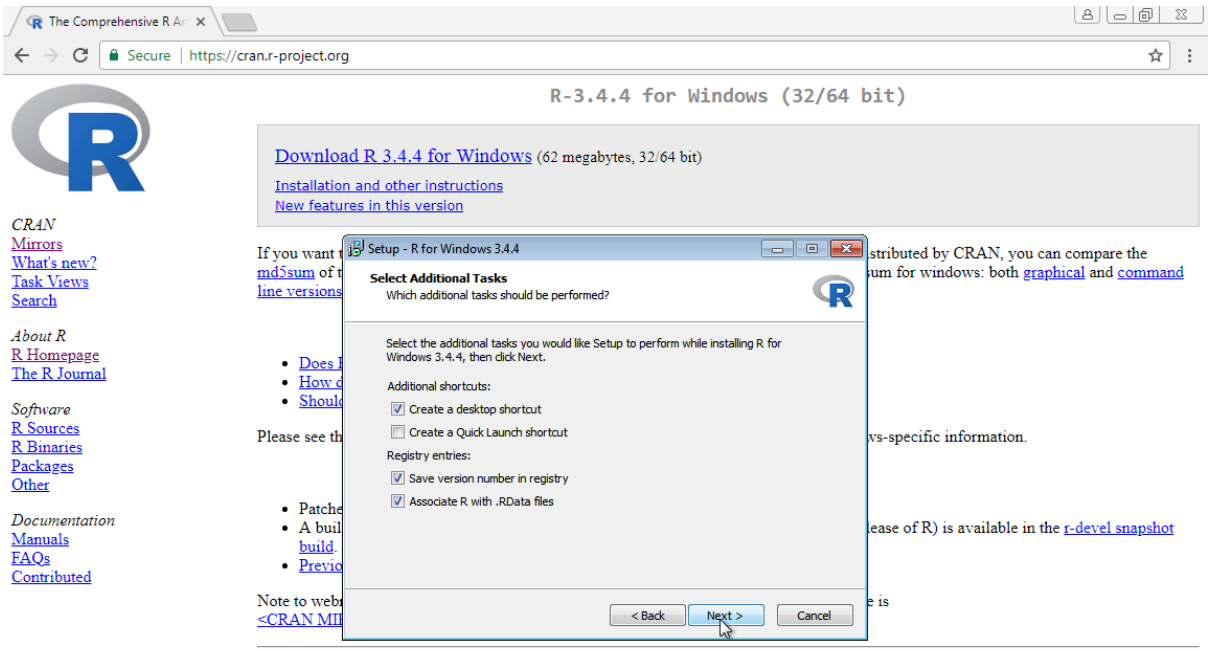

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Setup - R for Windows 3.4.4
Select Components
Which components should be installed?
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
User installation
Core Files 83.8 MB
32-bit Files 48.7 MB
64-bit Files 50.2 MB
Message translations 7.3 MB
Current selection requires at least 190.7 MB of disk space.
< Back
Next >
Cancel
Last change: 2018-03-15


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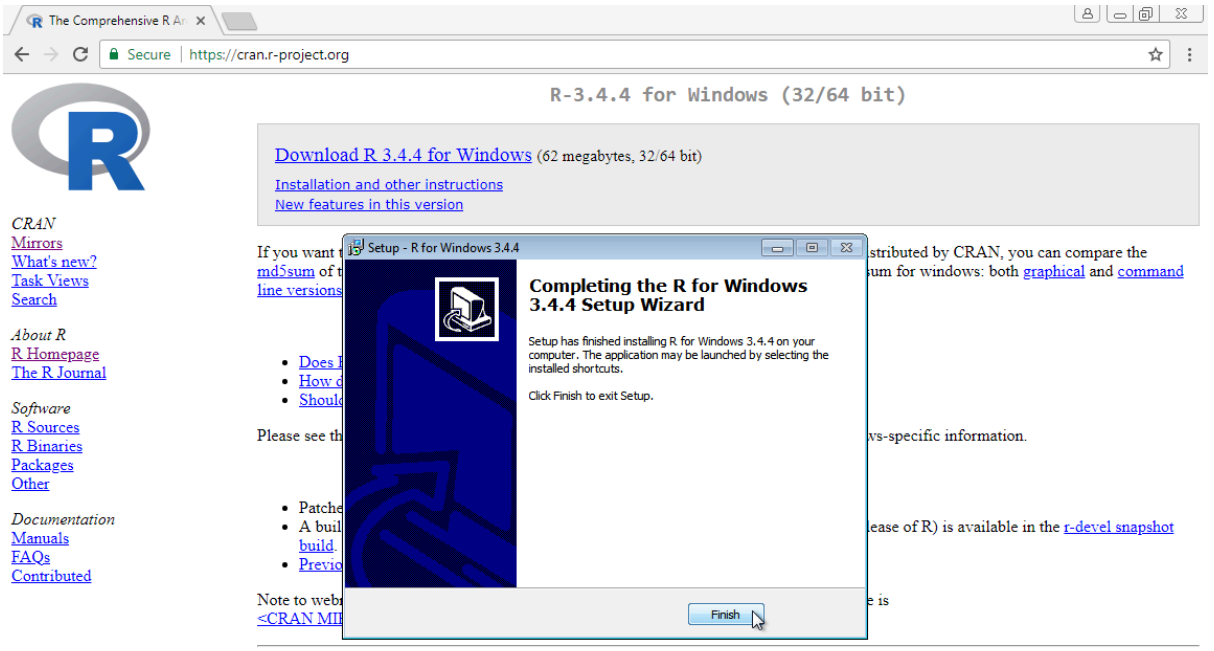

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Setup - R for Windows 3.4.4
Startup options
Do you want to customize the startup options?
Please specify yes or no, then click Next.
Yes (customized startup)
No (accept defaults)
< Back
Next >
Cancel
Last change: 2018-03-15


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Setup - R for Windows 3.4.4
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
Browse...
Don't create a Start Menu folder
< Back
Next >
Cancel
Last change: 2018-03-15
3:16 PM
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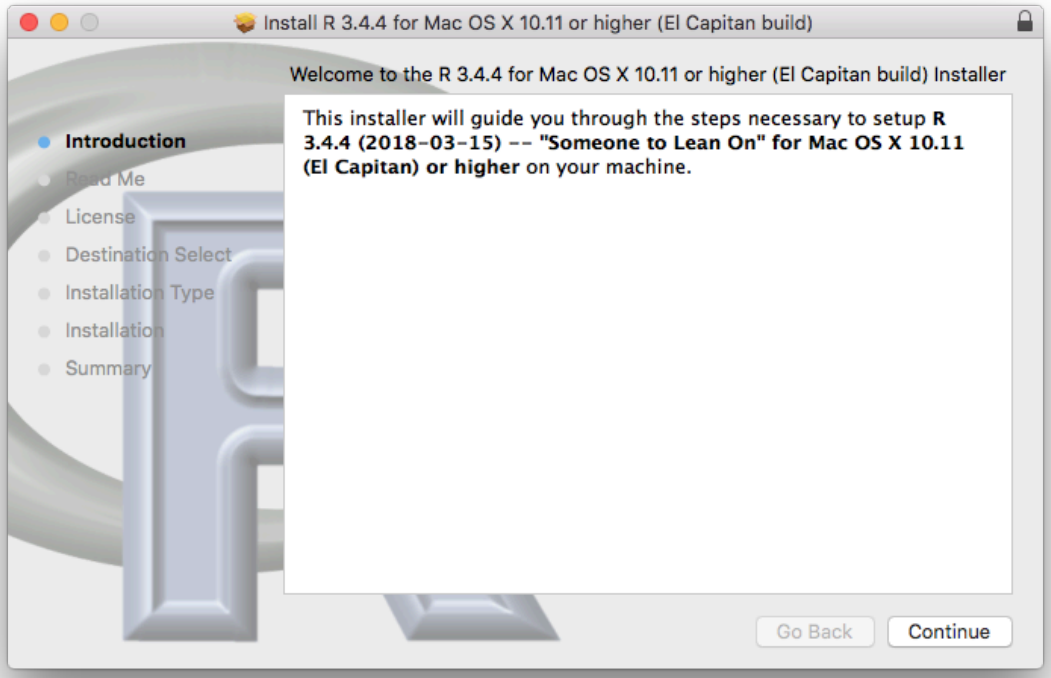

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Setup - R for Windows 3.4.4
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing R for Windows 3.4.4, then click Next.
Additional shortcuts:
Create a desktop shortcut
Create a Quick Launch shortcut
Registry entries:
Save version number in registry
Associate R with .RData files
< Back
Next >
Cancel
Last change: 2018-03-15

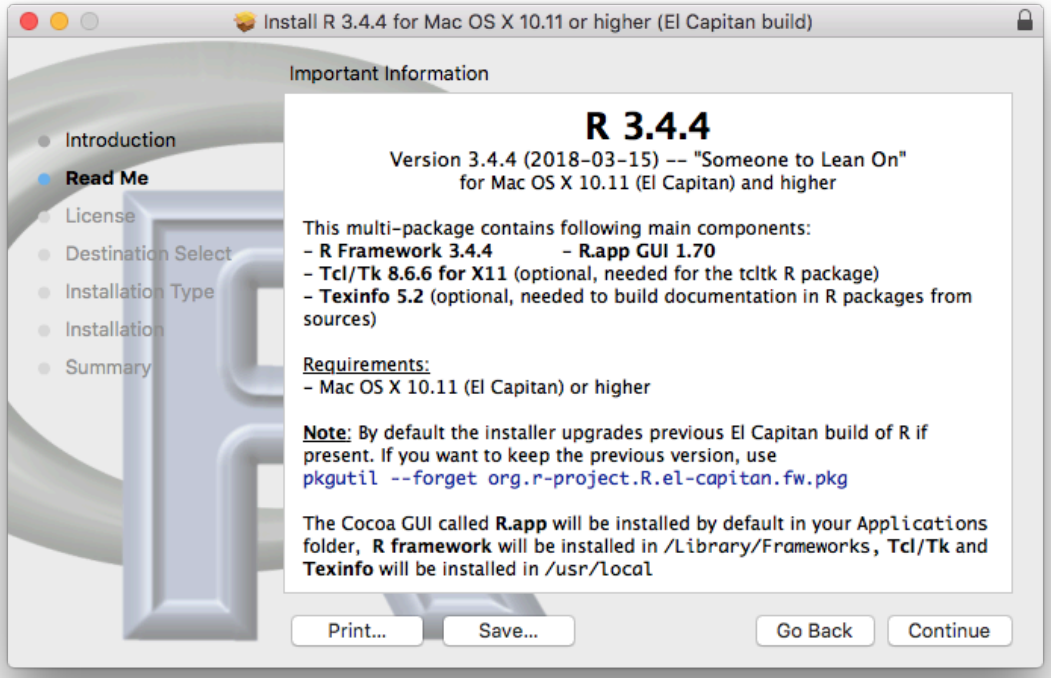

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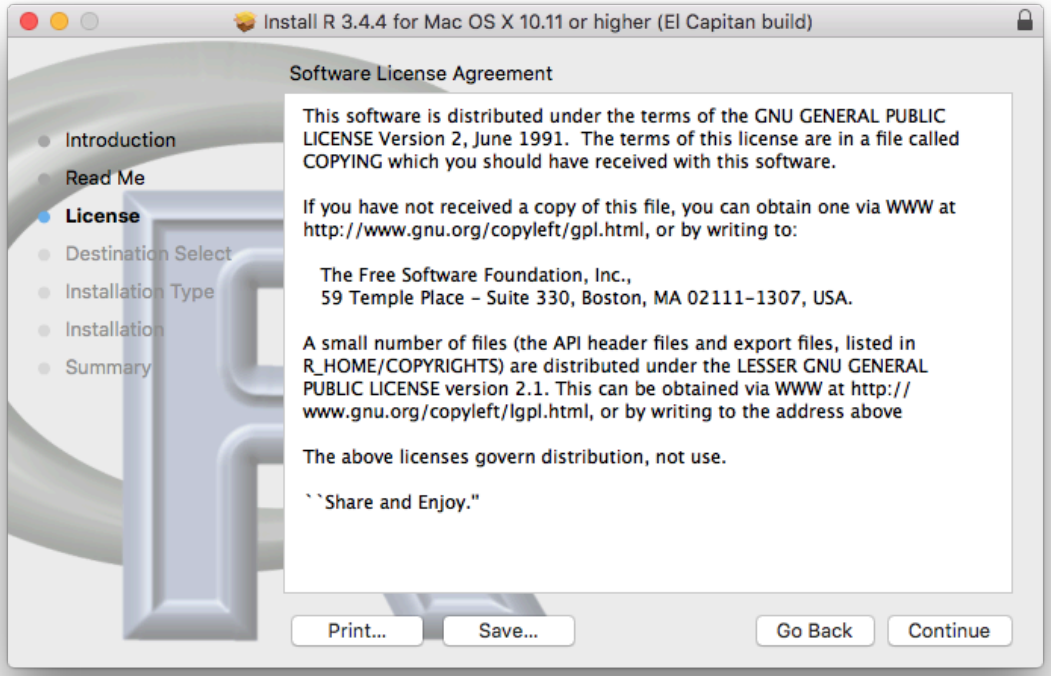

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Setup - R for Windows 3.4.4
Completing the R for Windows 3.4.4 Setup Wizard
Setup has finished installing R for Windows 3.4.4 on your computer. The application may be launched by selecting the installed shortcuts.
Click Finish to exit Setup.
Finish
Last change: 2018-03-15

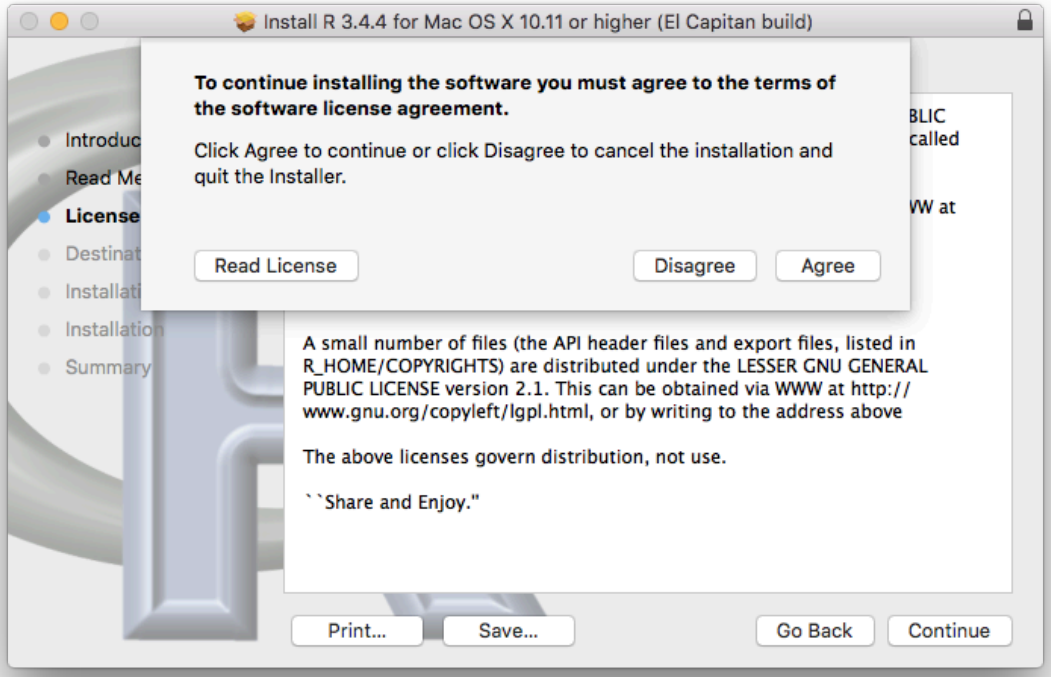

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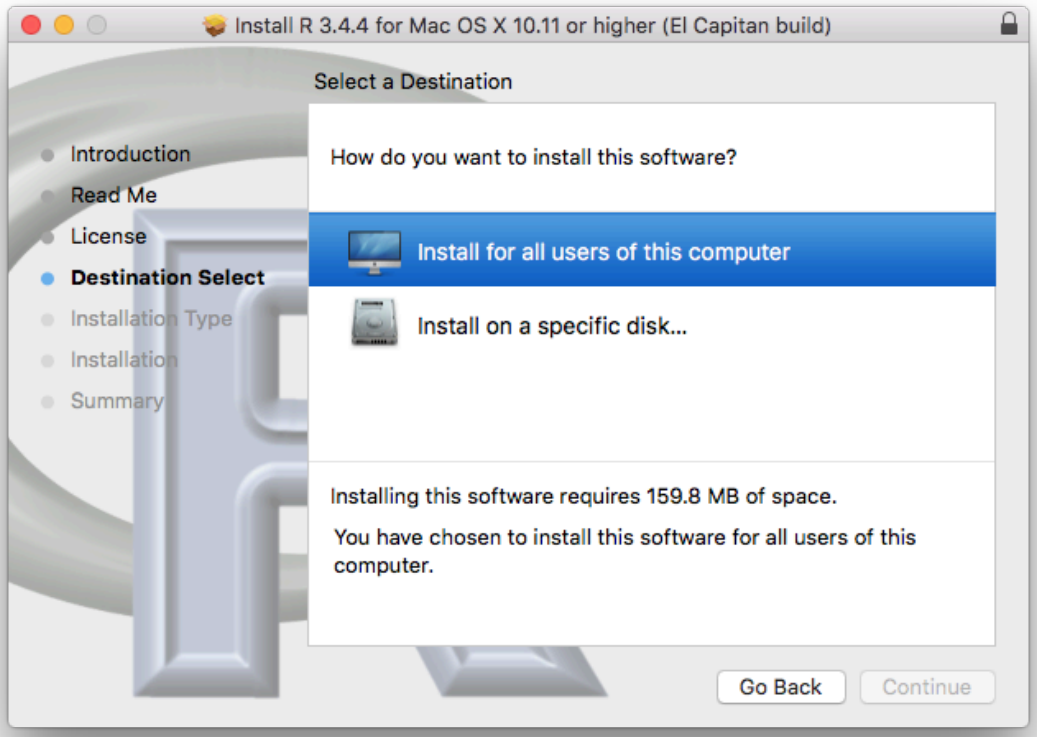
On the Mac it looks different, but you are also accepting the defaults:

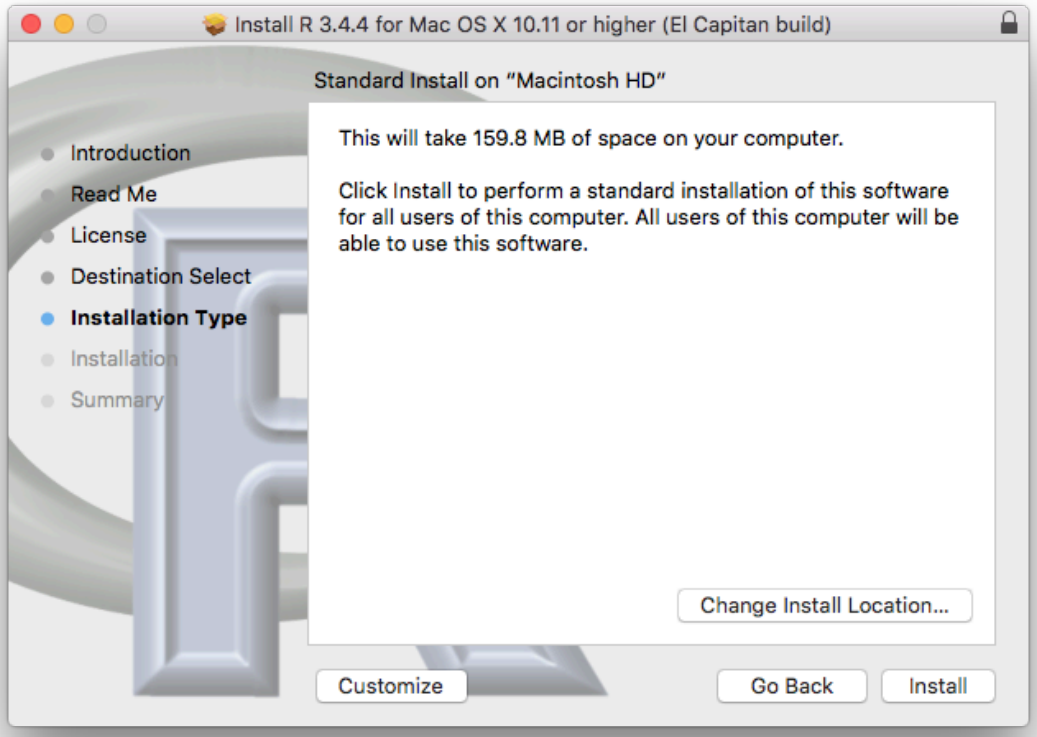


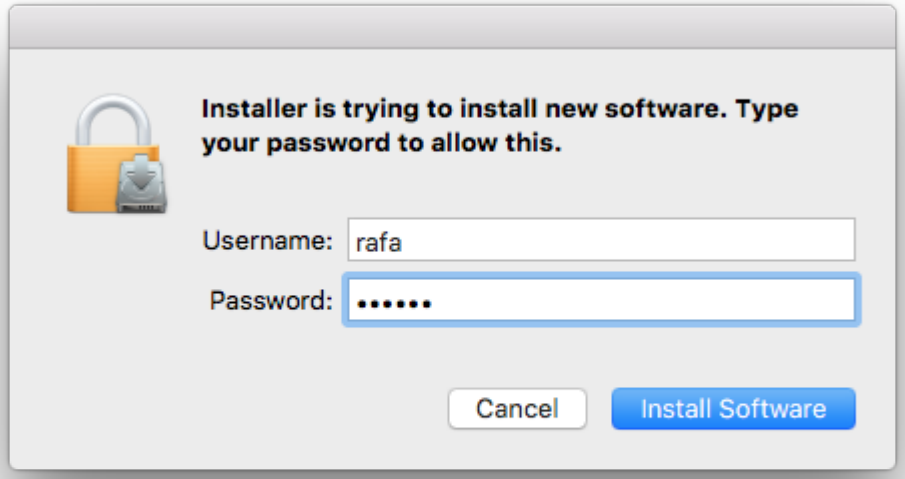


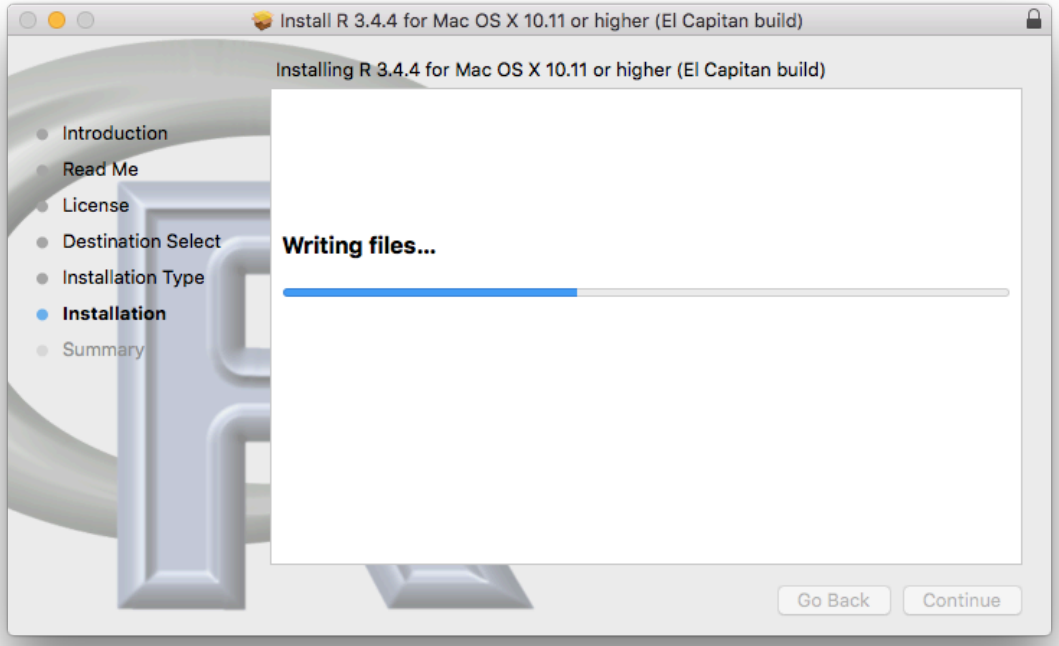

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Installation
Summary
Software License Agreement
This software is distributed under the terms of the GNU GENERAL PUBLIC LICENSE Version 2, June 1991. The terms of this license are in a file called COPYING which you should have received with this software.
If you have not received a copy of this file, you can obtain one via WWW at http://www.gnu.org/copyleft/gpl.html, or by writing to:
The Free Software Foundation, Inc.,
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
A small number of files (the API header files and export files, listed in R_HOME/COPYRIGHTS) are distributed under the LESSER GNU GENERAL PUBLIC LICENSE version 2.1. This can be obtained via WWW at http://www.gnu.org/copyleft/lgpl.html, or by writing to the address above
The above licenses govern distribution, not use.
``Share and Enjoy."
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Save...
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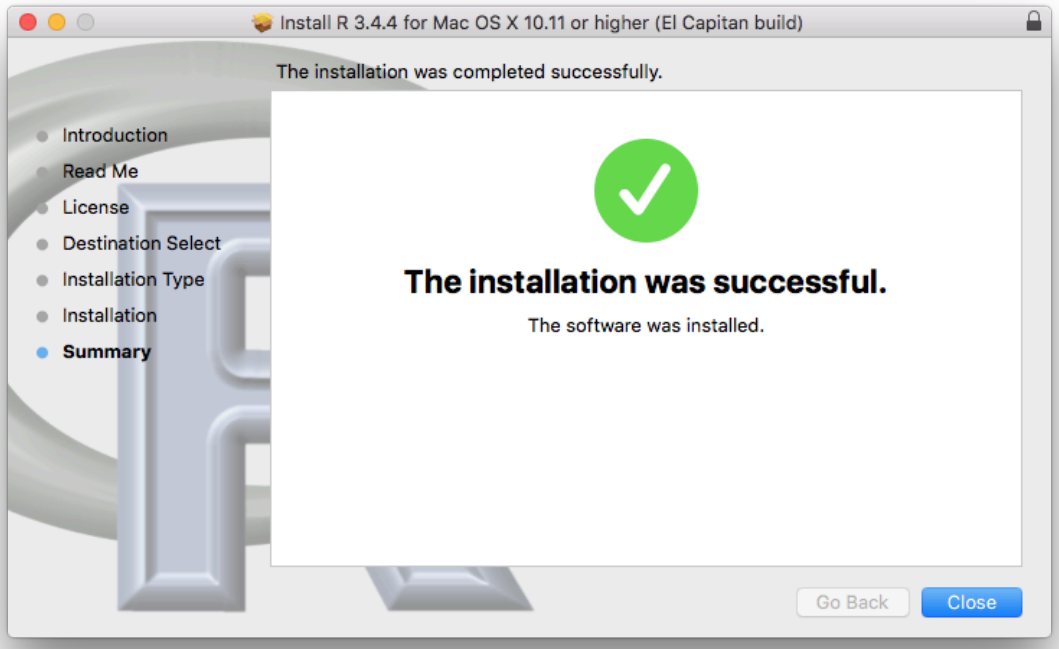

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To continue installing the software you must agree to the terms of the software license agreement.
Click Agree to continue or click Disagree to cancel the installation and quit the Installer.
Read License
Disagree
Agree
A small number of files (the API header files and export files, listed in R_HOME/COPYRIGHTS) are distributed under the LESSER GNU GENERAL PUBLIC LICENSE version 2.1. This can be obtained via WWW at http://www.gnu.org/copyleft/lgpl.html, or by writing to the address above
The above licenses govern distribution, not use.
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Destination Select
Installation Type
Installation
Summary
How do you want to install this software?
Install for all users of this computer
Install on a specific disk...
Installing this software requires 159.8 MB of space.
You have chosen to install this software for all users of this computer.
Go Back
Continue


Install R 3.4.4 for Mac OS X 10.11 or higher (El Capitan build)
Standard Install on "Macintosh HD"
Introduction
Read Me
License
Destination Select
Installation Type
Installation
Summary
This will take 159.8 MB of space on your computer.
Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.
Change Install Location...
Customize
Go Back
Install


Installer is trying to install new software. Type your password to allow this.
Username:
rafa
Password:
Cancel
Install Software

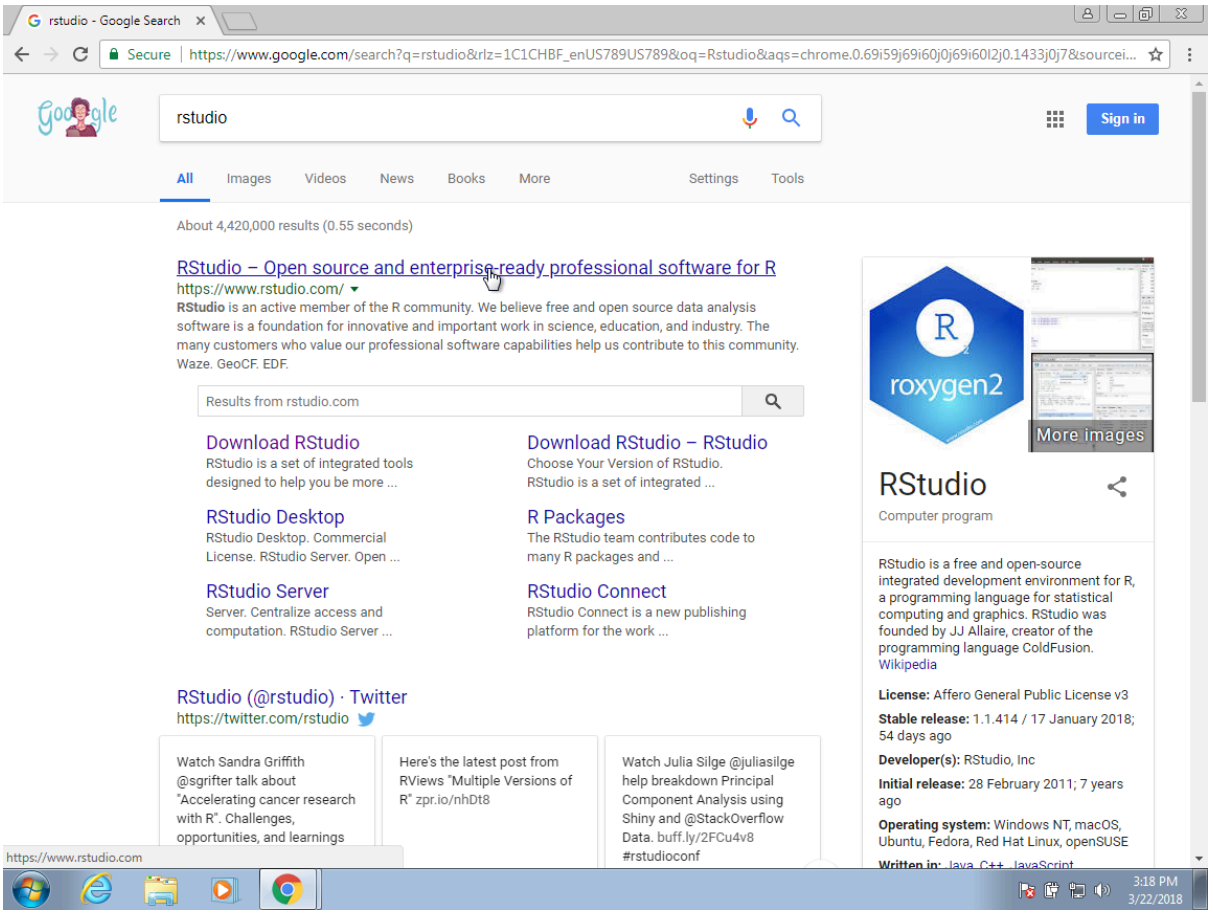




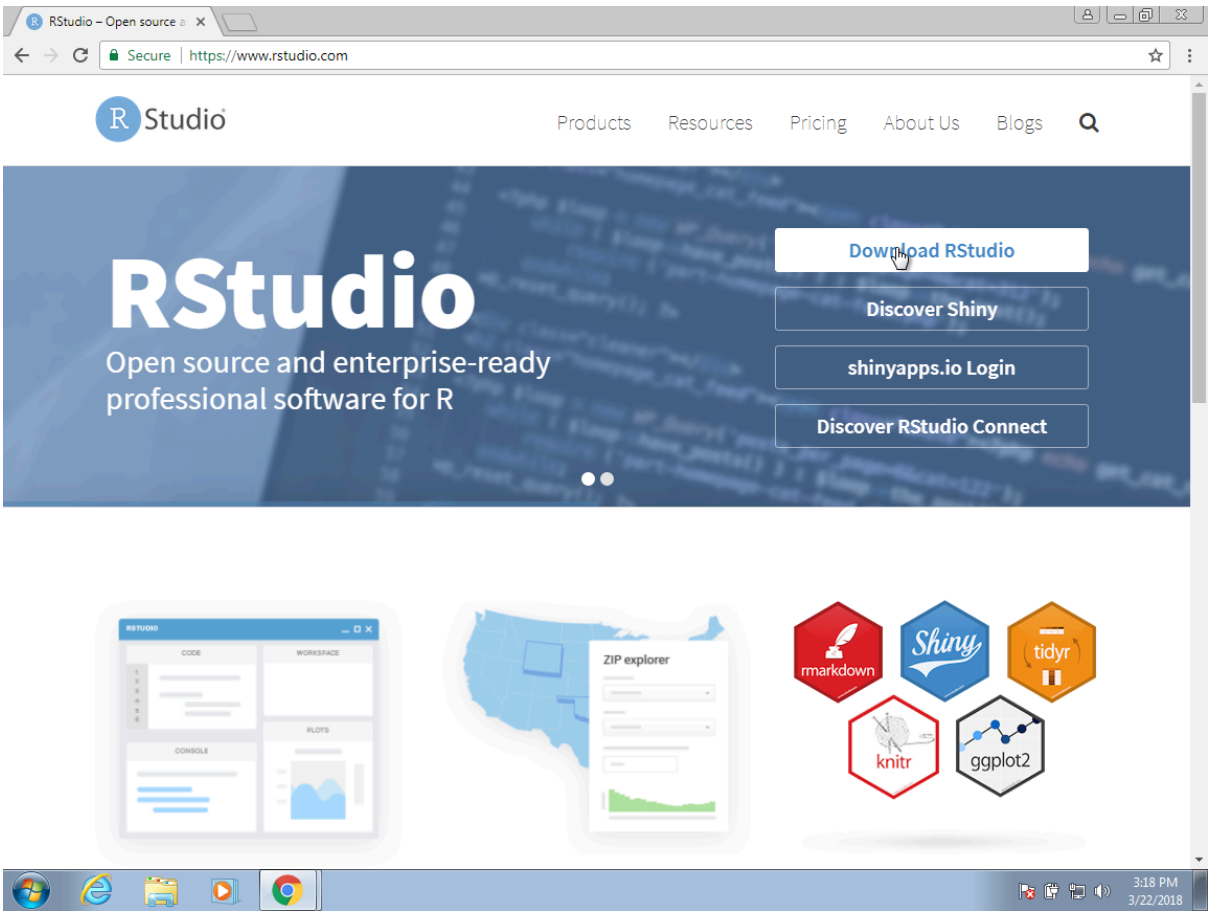
Congratulations! You have installed R.

Installing RStudio

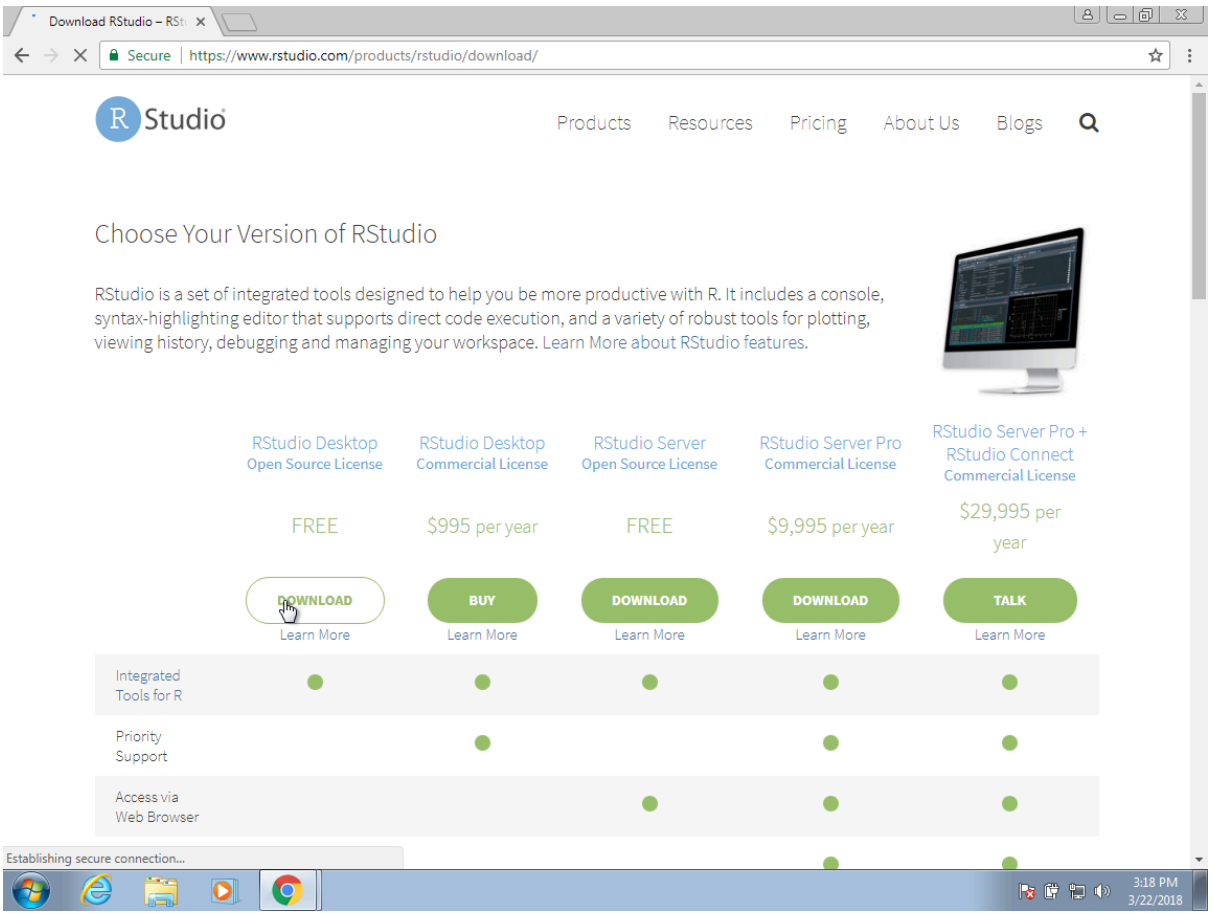
1. You can start by searching for RStudio on your browser:



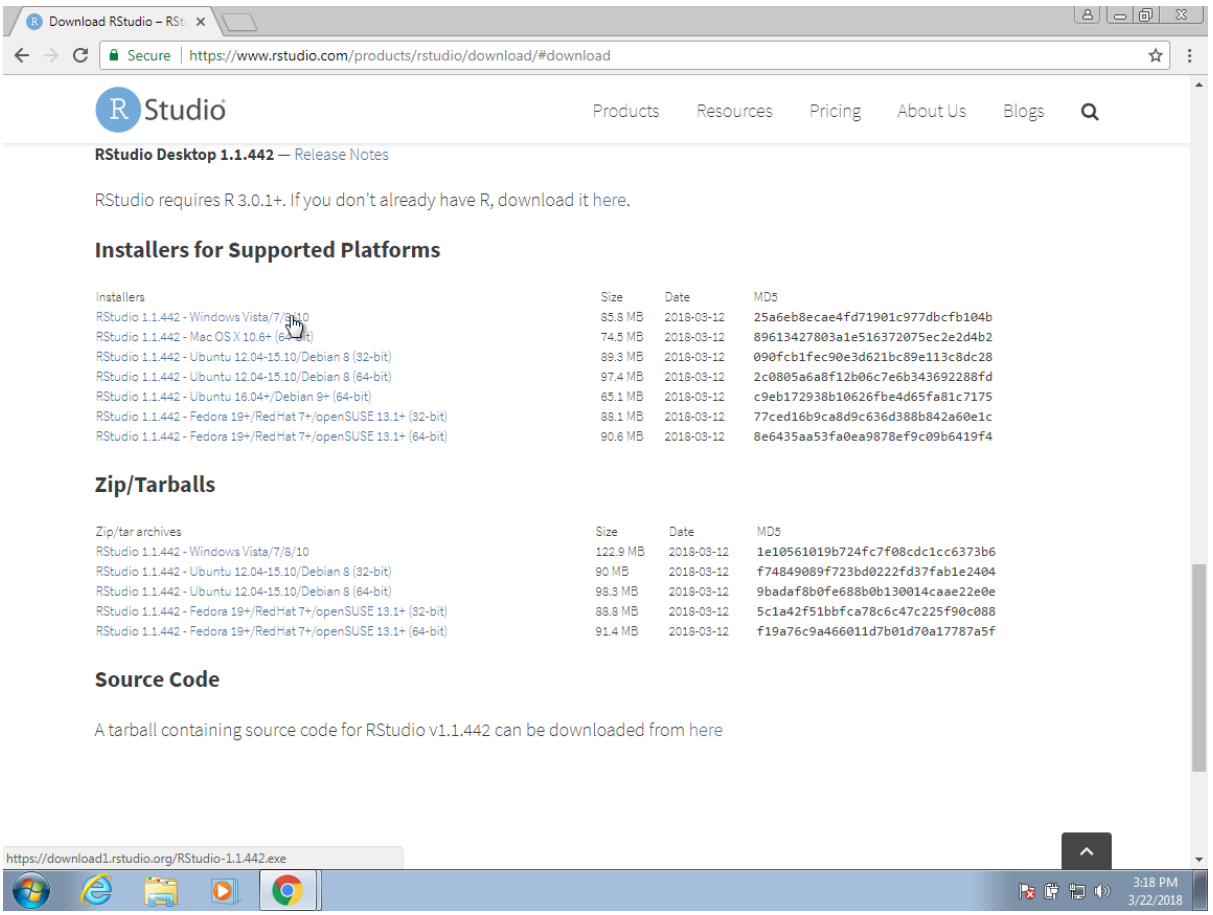
2. You should find the RStudio website as shown above. Once there, click on *Download RStudio*.



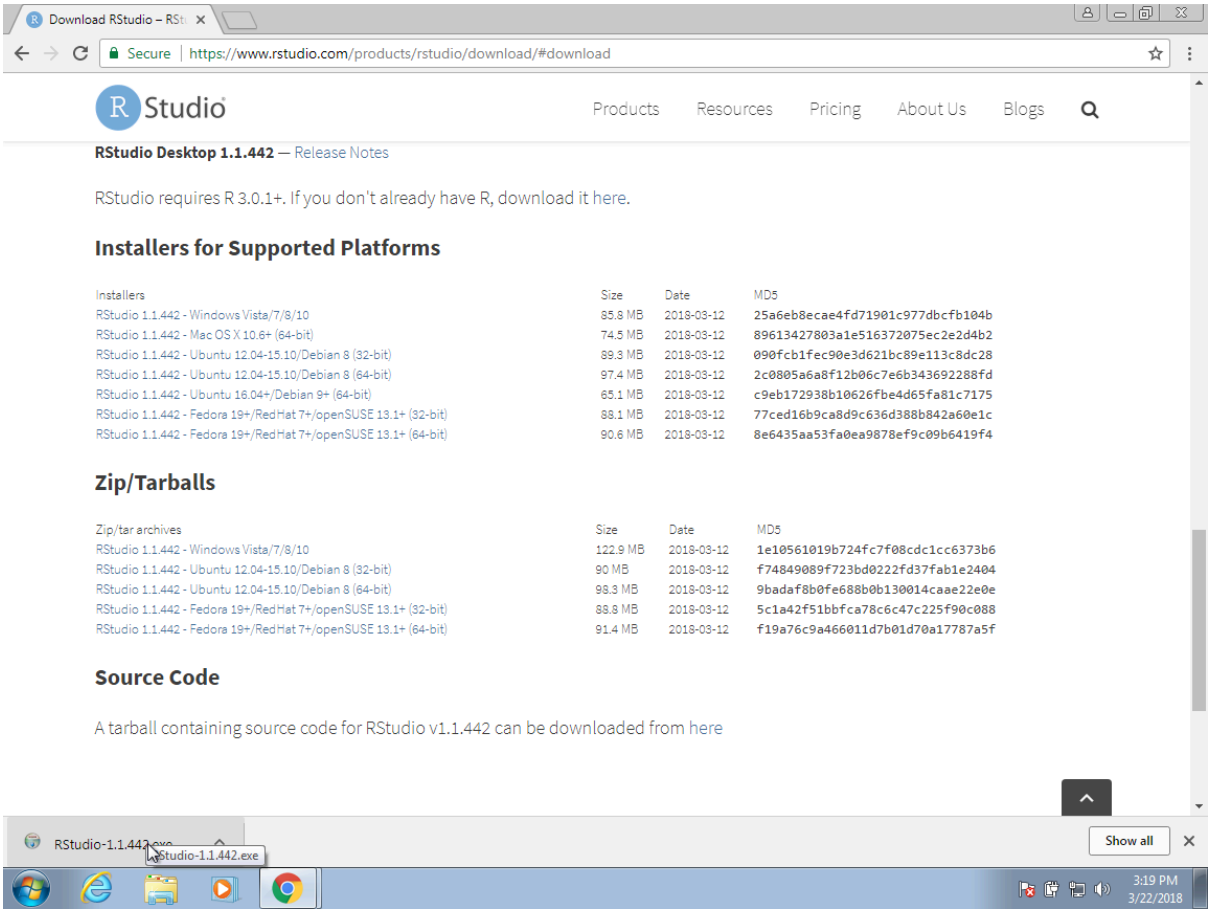
3. This will give you several options. For what we do in this book, it is more than enough to use the free Desktop version:



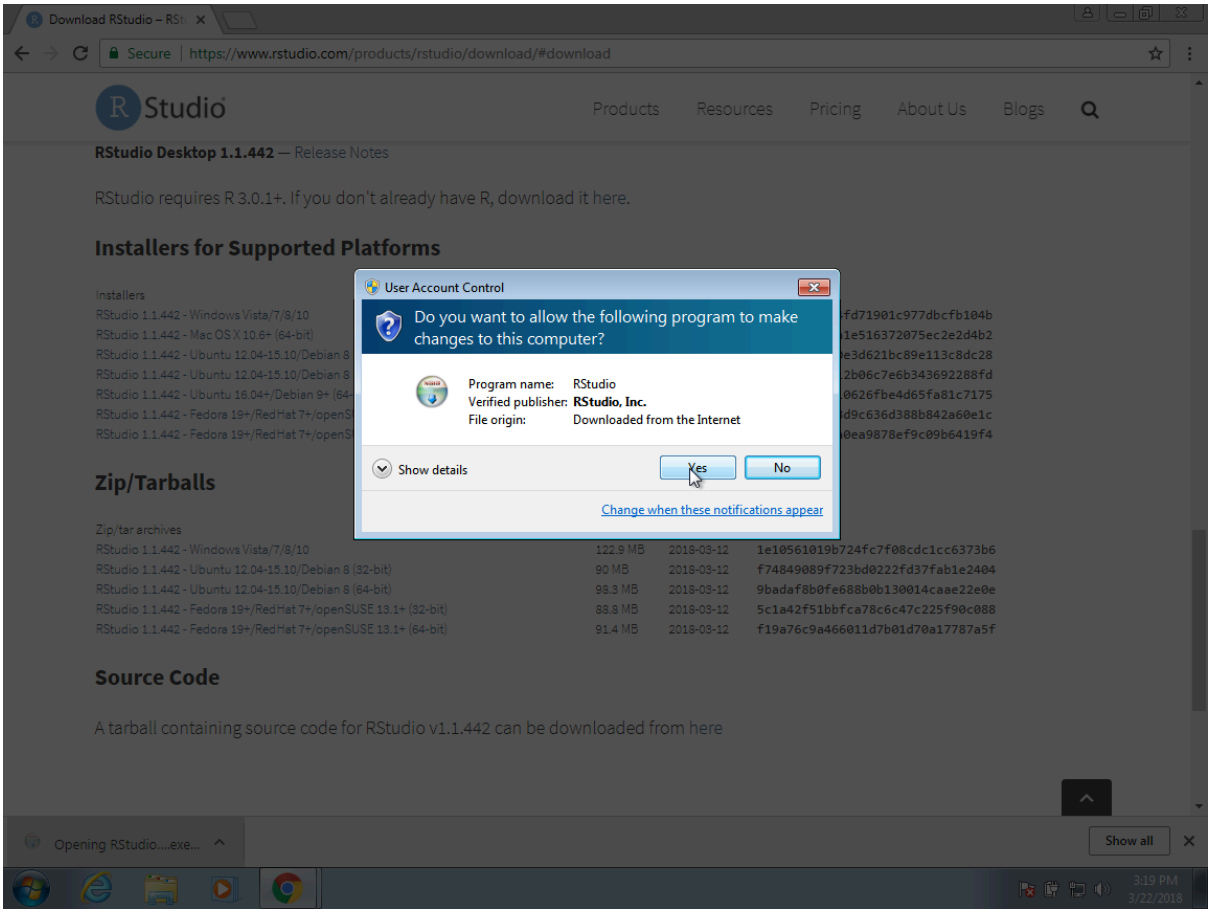
4. Once you select this option, it will take you to a page in which the operating system options are provided. Click the link showing your operating system.

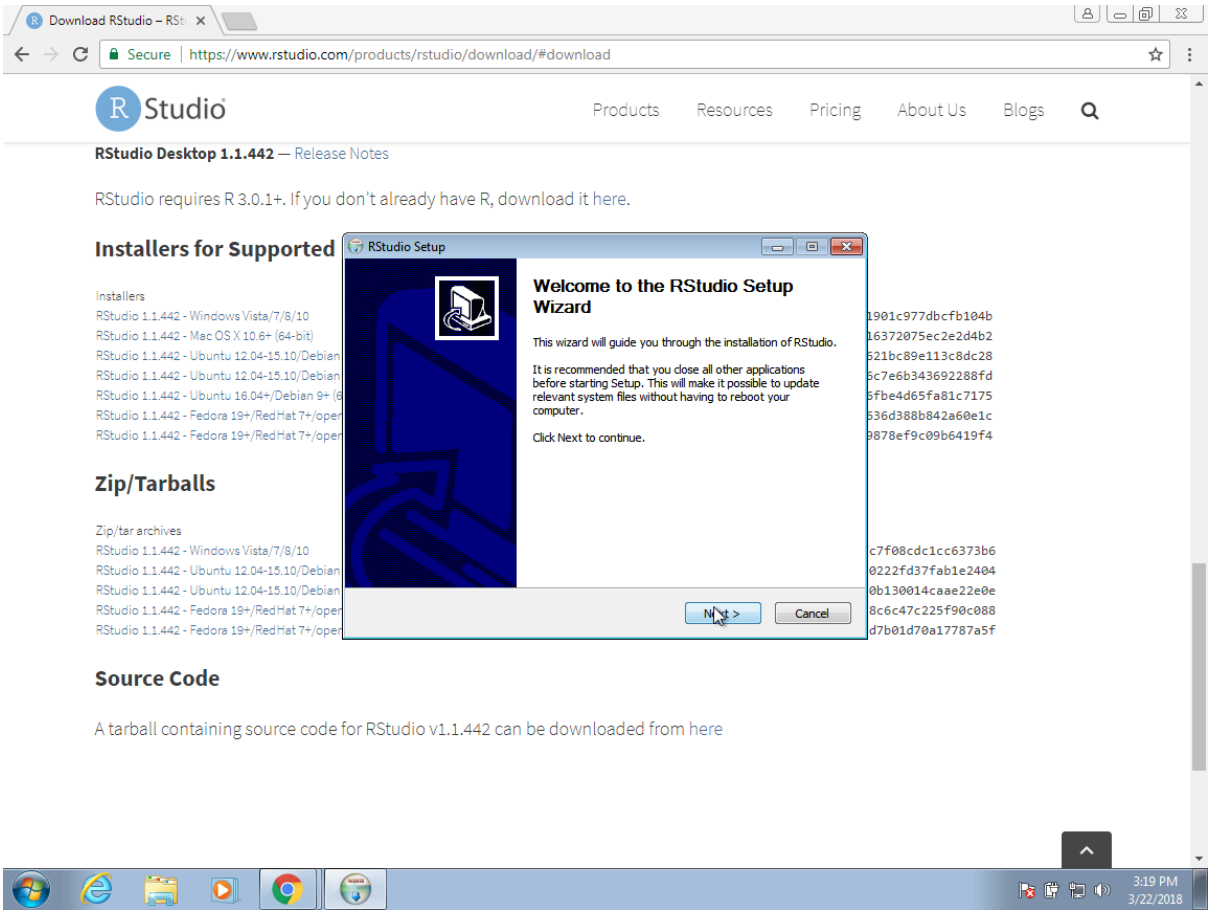


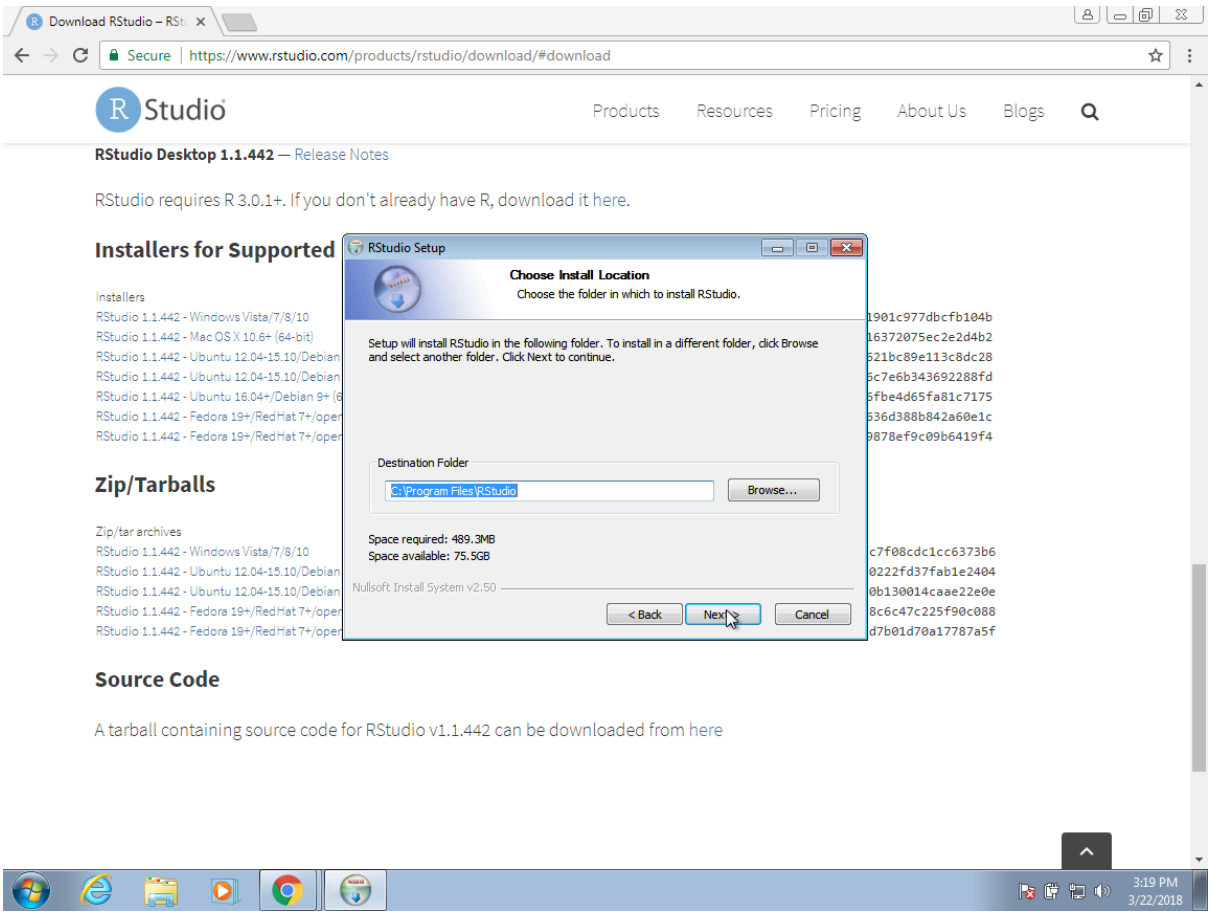
5. Once the installation file is downloaded, click on the downloaded file to start the installation process:

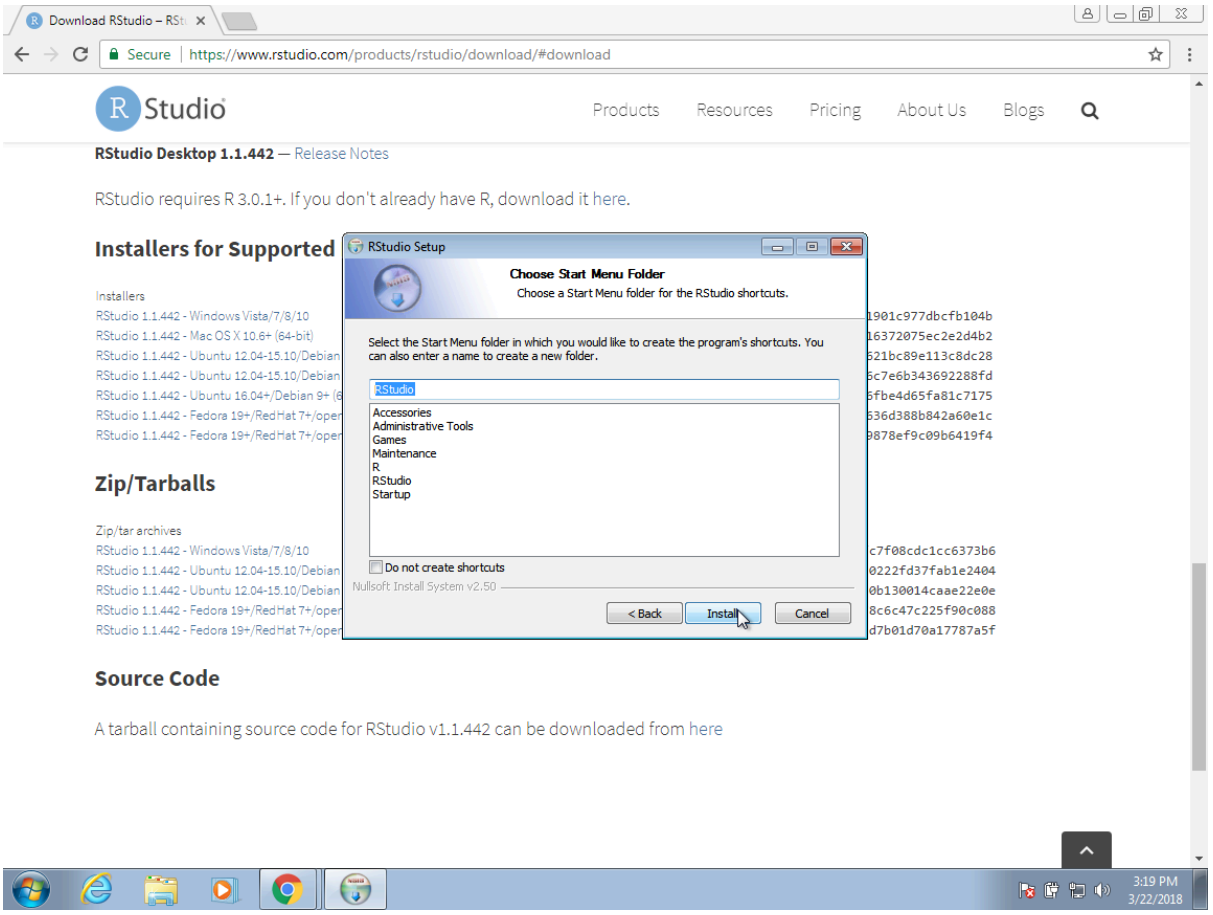


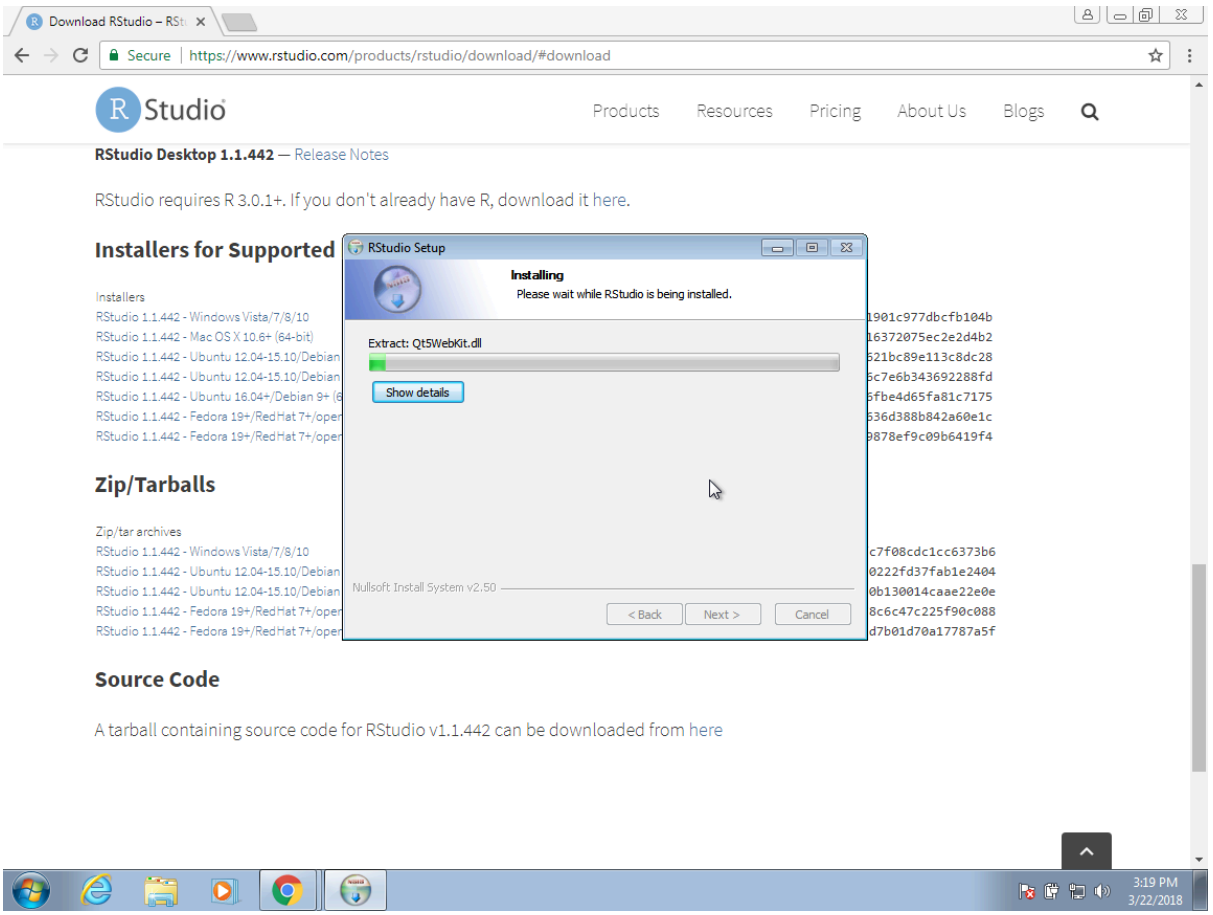
6. We recommend clicking yes on all the defaults.

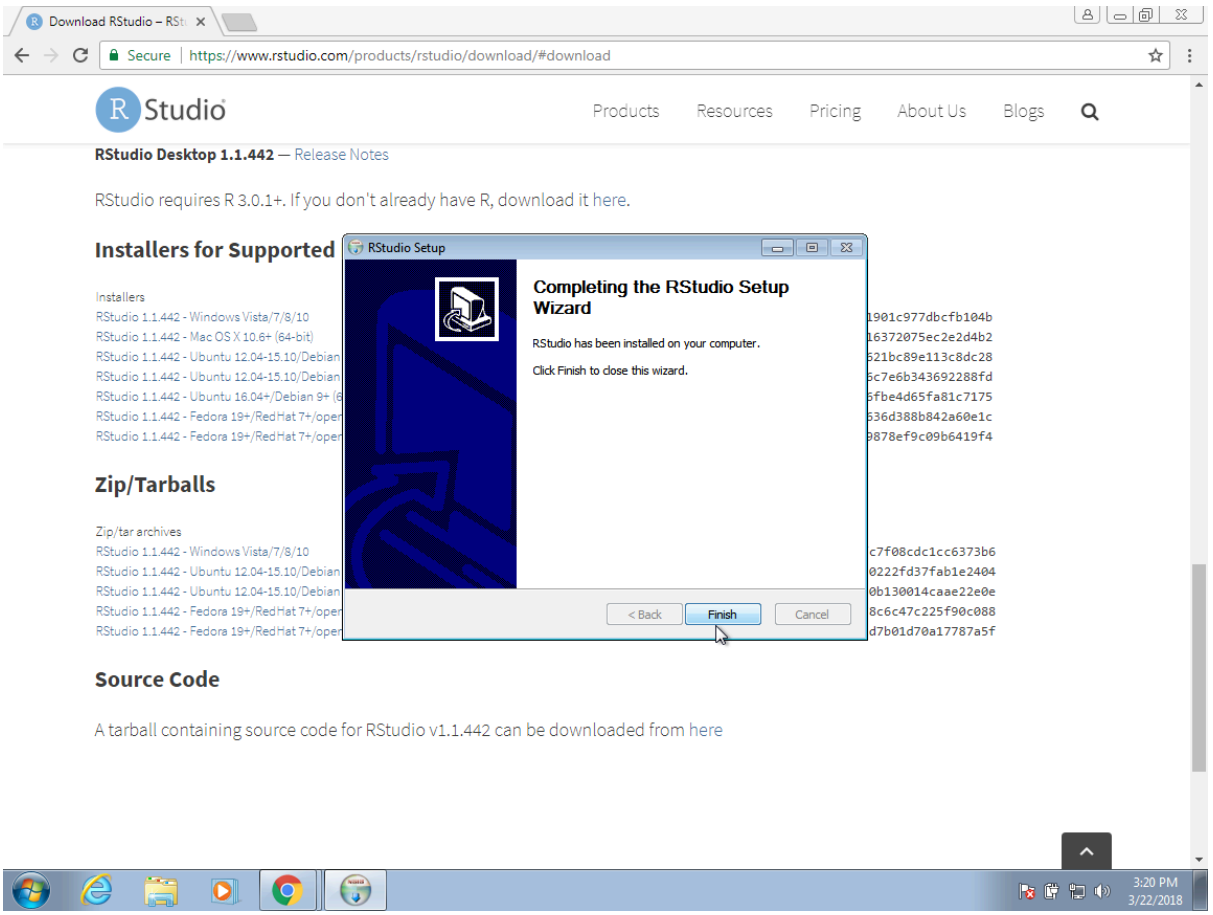

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RStudio Desktop 1.1.442 — Release Notes
RStudio requires R 3.0.1+. If you don't already have R, download it here.
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RStudio 1.1.442 - Windows Vista/7/8/10
RStudio 1.1.442 - Mac OS X 10.6+ (64-bit)
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian 8
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian 8
RStudio 1.1.442 - Ubuntu 16.04+/Debian 9+ (64-
RStudio 1.1.442 - Fedora 19+/RedHat 7+/openS
RStudio 1.1.442 - Fedora 19+/RedHat 7+/openS
User Account Control
Do you want to allow the following program to make changes to this computer?
Program name: RStudio
Verified publisher: RStudio, Inc.
File origin: Downloaded from the Internet
Show details
Yes
No
Change when these notifications appear
Zip/Tarballs
Zip/tar archives
RStudio 1.1.442 - Windows Vista/7/8/10 122.9 MB 2018-03-12 1e10561019b724fc7f08cdc1cc6373b6
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian 8 (32-bit) 90 MB 2018-03-12 f74849089f723bd0222fd37fab1e2404
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian 8 (64-bit) 98.3 MB 2018-03-12 9badaf8b0fe688b0b130014caae22e0e
RStudio 1.1.442 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit) 88.8 MB 2018-03-12 5c1a42f51bbfca78c6c47c225f90c088
RStudio 1.1.442 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit) 91.4 MB 2018-03-12 f19a76c9a466011d7b01d70a17787a5f
Source Code
A tarball containing source code for RStudio v1.1.442 can be downloaded from here
Opening RStudio....exe...
Show all
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3/22/2018


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Installers
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RStudio 1.1.442 - Mac OS X 10.6+ (64-bit)
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian
RStudio 1.1.442 - Ubuntu 16.04+/Debian 9+ (6
RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
RStudio Setup
Welcome to the RStudio Setup Wizard
This wizard will guide you through the installation of RStudio.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel
Zip/Tarballs
Zip/tar archives
RStudio 1.1.442 - Windows Vista/7/8/10
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian
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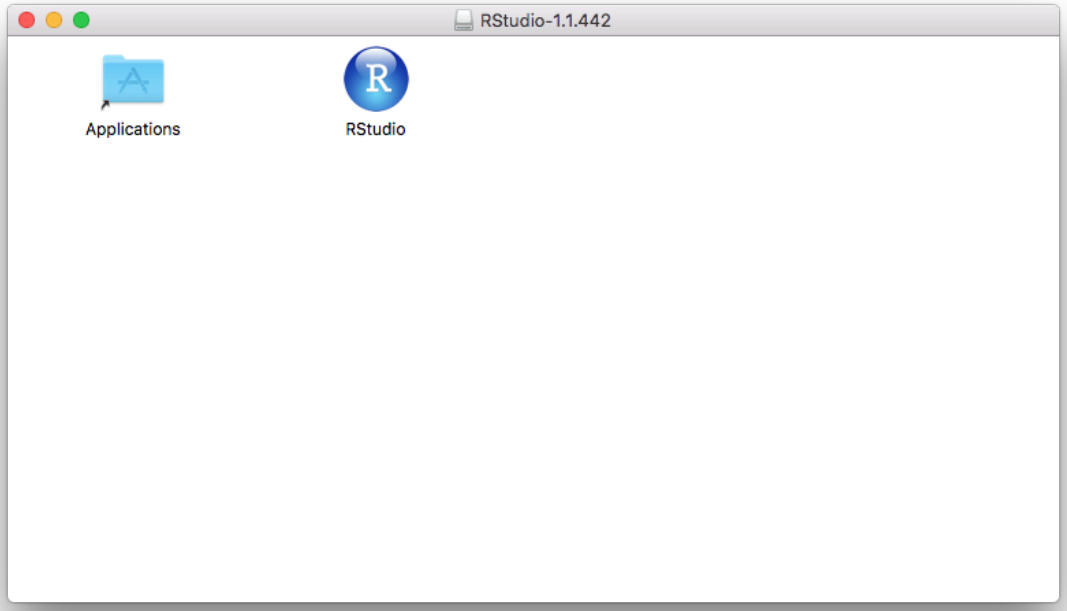

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RStudio Desktop 1.1.442 — Release Notes
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Installers for Supported
RStudio Setup
Choose Install Location
Choose the folder in which to install RStudio.
Setup will install RStudio in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Program Files\RStudio
Browse...
Space required: 489.3MB
Space available: 75.5GB
Nullsoft Install System v2,50
< Back
Next >
Cancel
Installers
RStudio 1.1.442 - Windows Vista/7/8/10
RStudio 1.1.442 - Mac OS X 10.6+ (64-bit)
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian
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1901c977dbcfb104b
16372075ec2e2d4b2
521bc89e113c8dc28
6c7e6b343692288fd
6fbe4d65fa81c7175
536d388b842a60e1c
9878ef9c09b6419f4
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RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
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0b130014caae22e0e
8c6c47c225f90c088
d7b01d70a17787a5f
Source Code
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Installers for Supported
RStudio Setup
Choose Start Menu Folder
Choose a Start Menu folder for the RStudio shortcuts.
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.
RStudio
Accessories
Administrative Tools
Games
Maintenance
R
RStudio
Startup
Do not create shortcuts
Nullsoft Install System v2,50
< Back
Install
Cancel
Installers
RStudio 1.1.442 - Windows Vista/7/8/10
RStudio 1.1.442 - Mac OS X 10.6+ (64-bit)
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian
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RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
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6fbe4d65fa81c7175
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9878ef9c09b6419f4
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RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
c7f08cdc1cc6373b6
0222fd37fab1e2404
0b130014caae22e0e
8c6c47c225f90c088
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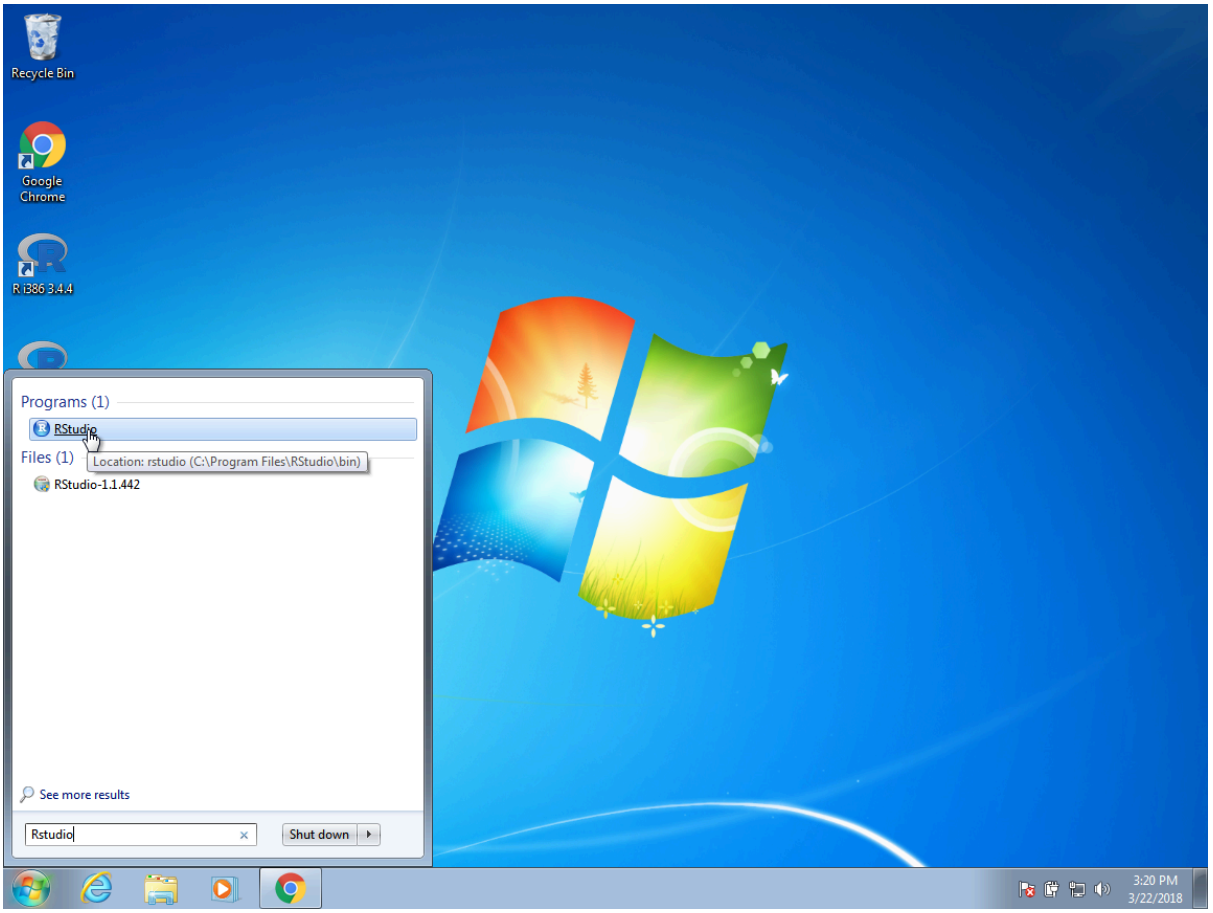

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RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
RStudio 1.1.442 - Fedora 19+/RedHat 7+/oper
1901c977dbcfb104b
16372075ec2e2d4b2
521bc89e113c8dc28
6c7e6b343692288fd
6fbe4d65fa81c7175
636d388b842a60e1c
9878ef9c09b6419f4
RStudio Setup
Installing
Please wait while RStudio is being installed.
Extract: Qt5WebKit.dll
Show details
Nullsoft Install System v2.50
< Back
Next >
Cancel
Zip/Tarballs
Zip/tar archives
RStudio 1.1.442 - Windows Vista/7/8/10
RStudio 1.1.442 - Ubuntu 12.04-15.10/Debian
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c7f08cdc1cc6373b6
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d7b01d70a17787a5f
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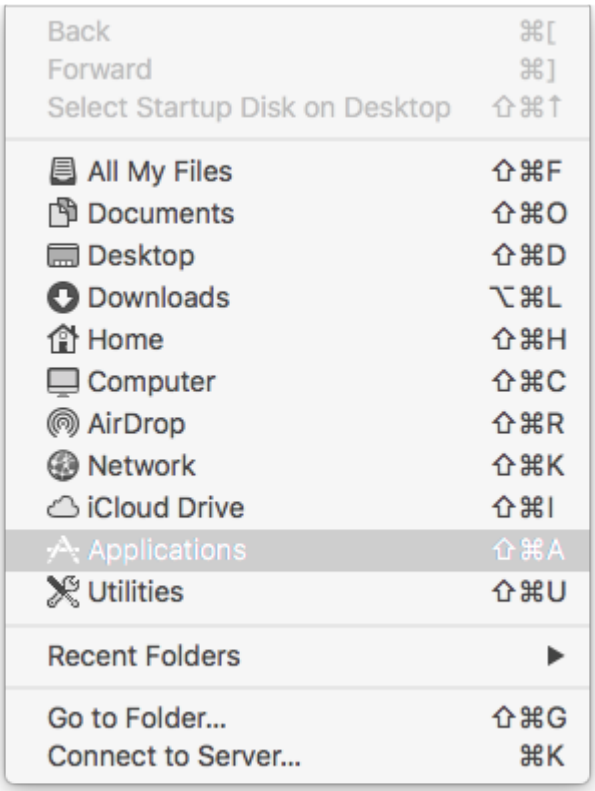
On the Mac, there are fewer clicks. You basically drag and drop the RStudio icon into the Applications folder icon here:



Congratulations! You have installed RStudio. You can now get started as you do on any other program in your computer. On Windows, you can open RStudio from the *Start* menu. If RStudio does not appear, you can search for it:



On the Mac, it will be in the Applications folder:





Pro tip for the Mac: To avoid using the mouse to open RStudio, hit command+spacebar to open *Spotlight Search* and type RStudio into that search bar, then hit enter.