

Installing R, RStudio, and RTools on a Windows Computer

1. Install R

- a. The website for R is <https://www.r-project.org/>
- b. To download it, go to <https://cran.r-project.org/mirrors.html> and select a mirror. Here are the ones nearby:
 - i. Pittsburgh - <http://lib.stat.cmu.edu/R/CRAN/>
 - ii. Pittsburgh - <http://cran.mirrors.hoobly.com/>
 - iii. Toronto - <http://cran.utstat.utoronto.ca/>
 - iv. The Bronx - <https://mirrors.sorenard.com/cran/>
- c. You'll get to a page that looks like this:

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.

- d. Click on the link for your operating system. For Windows, you'll see something that looks like this:

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old contrib	Binaries of contributed CRAN packages for outdated versions of R (for R $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.

- e. Click install R for the first time. You'll see something like this:

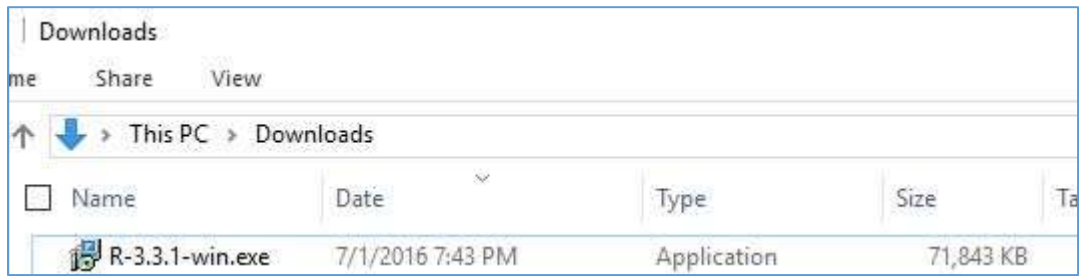
R-3.4.3 for Windows (32/64 bit)

[Download R 3.4.3 for Windows](#) (62 megabytes, 32/64 bit)

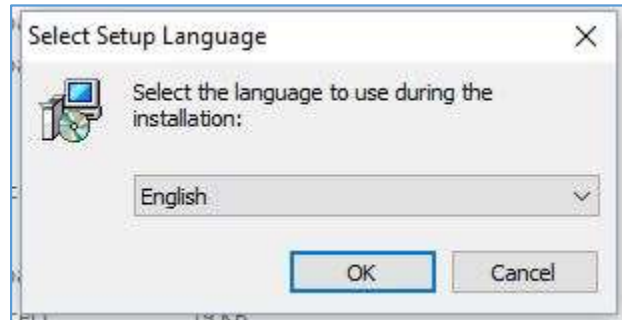
[Installation and other instructions](#)

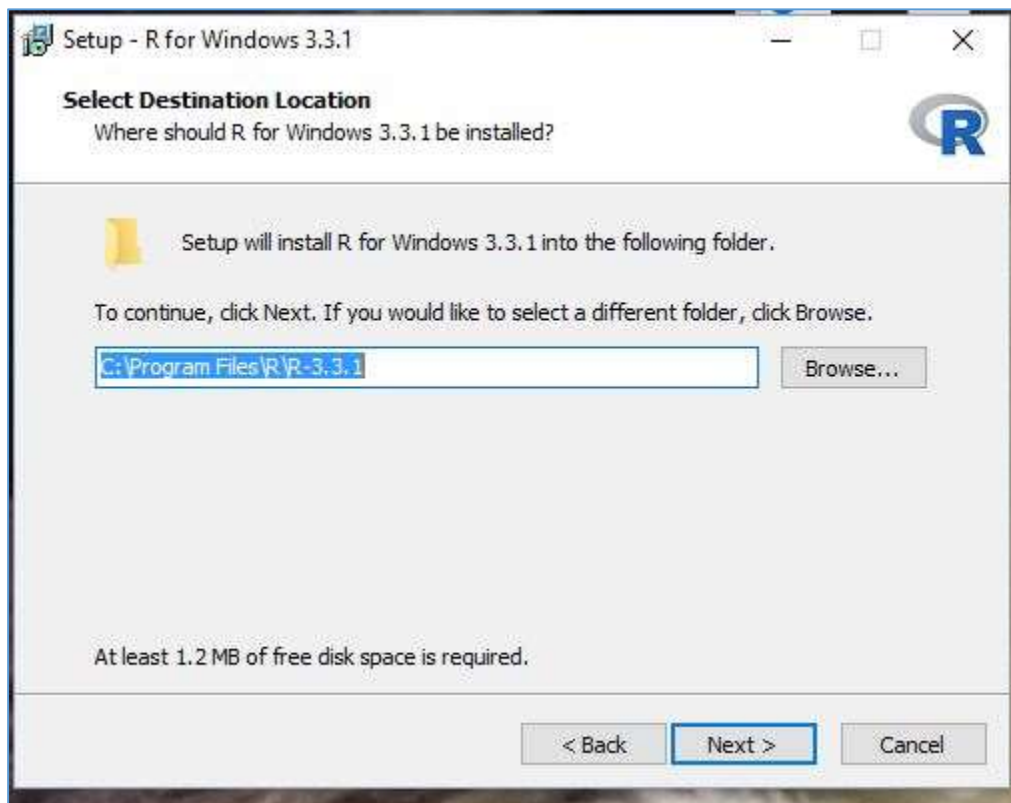
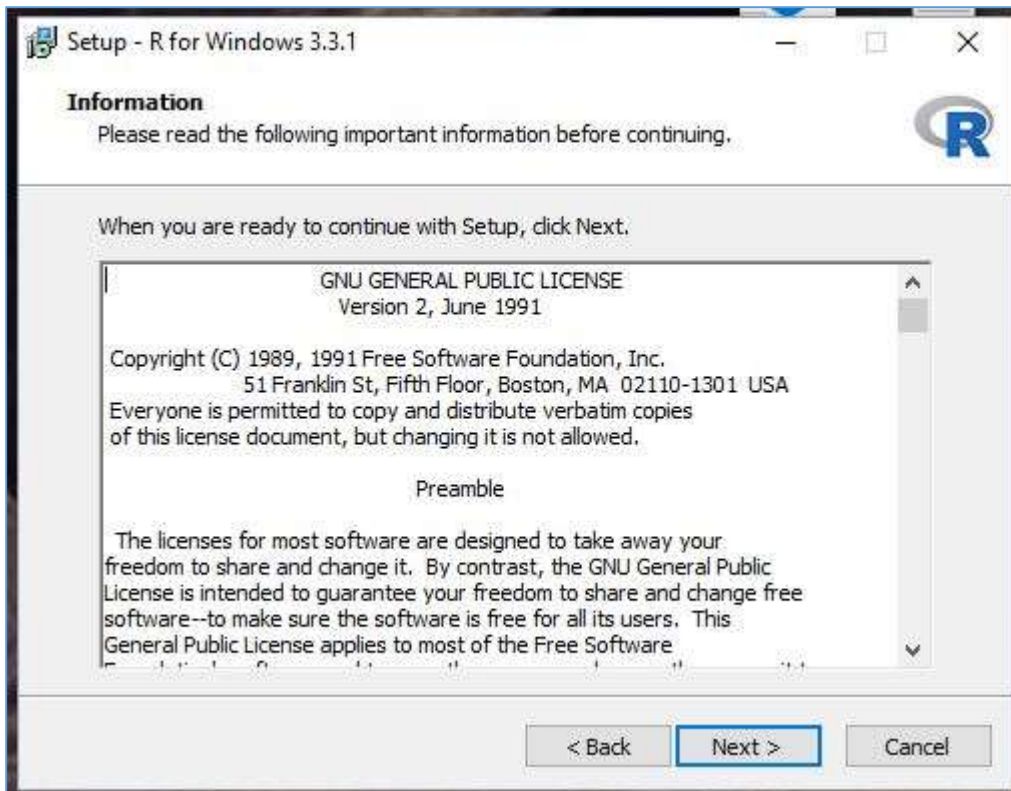
[New features in this version](#)

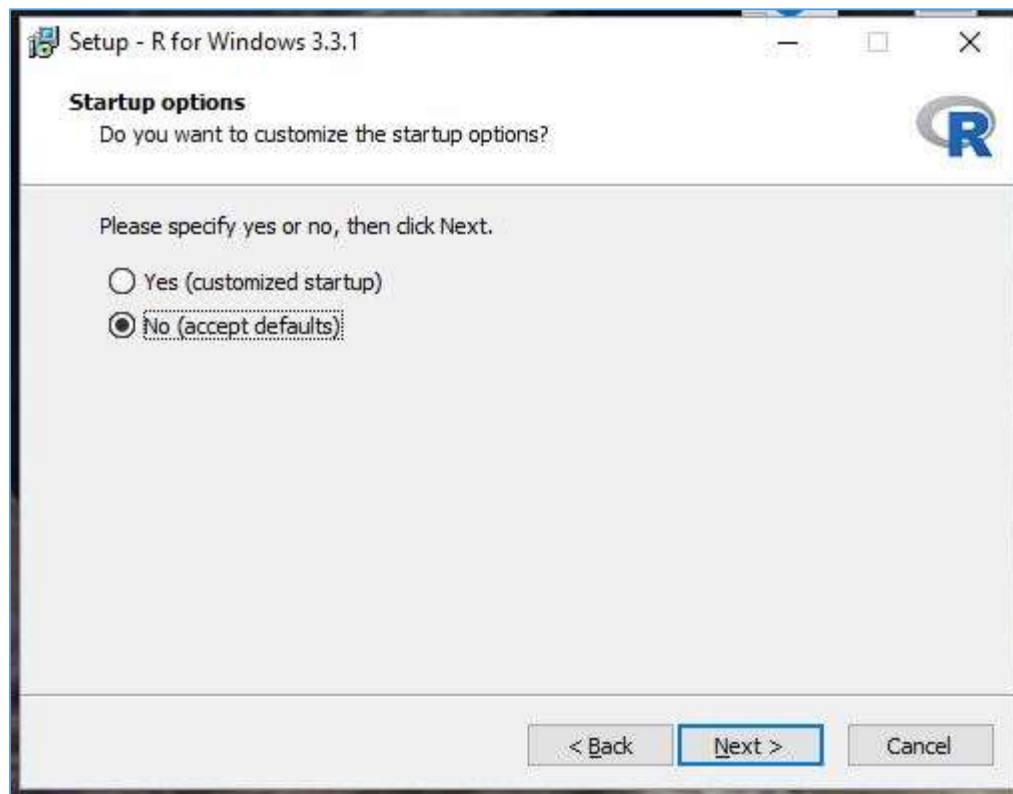
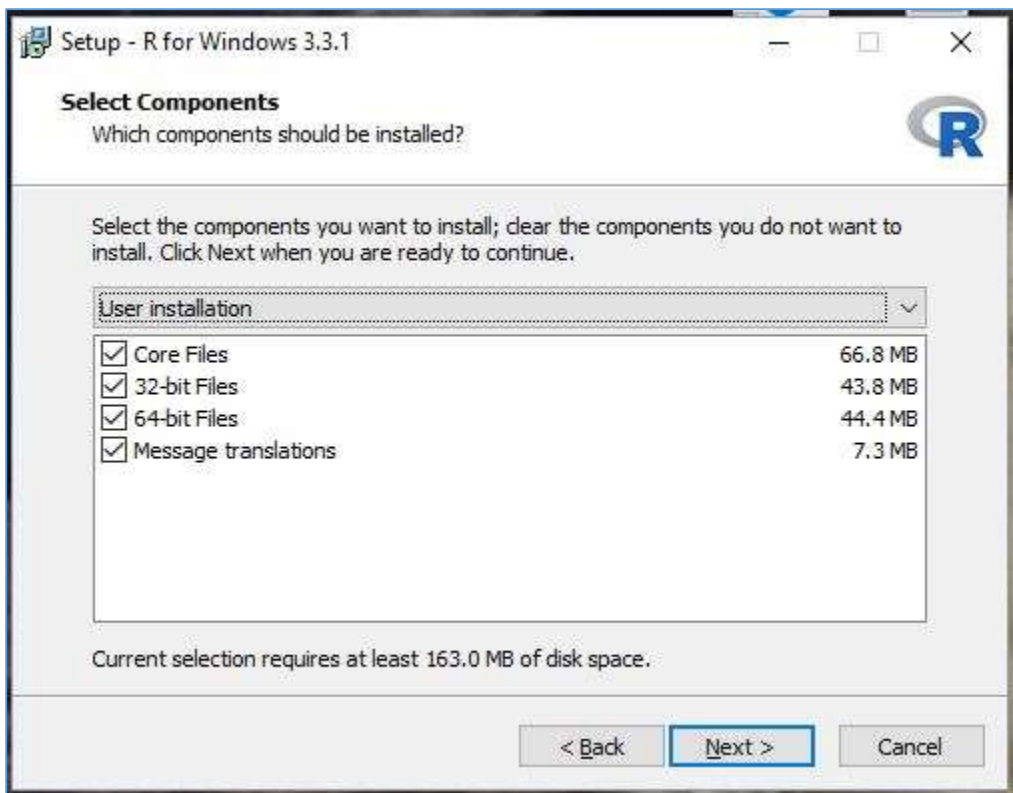
- f. Click on Download R 3.4.3 for Windows
- g. Run the downloaded file (**R-3.4.3-win.exe**).

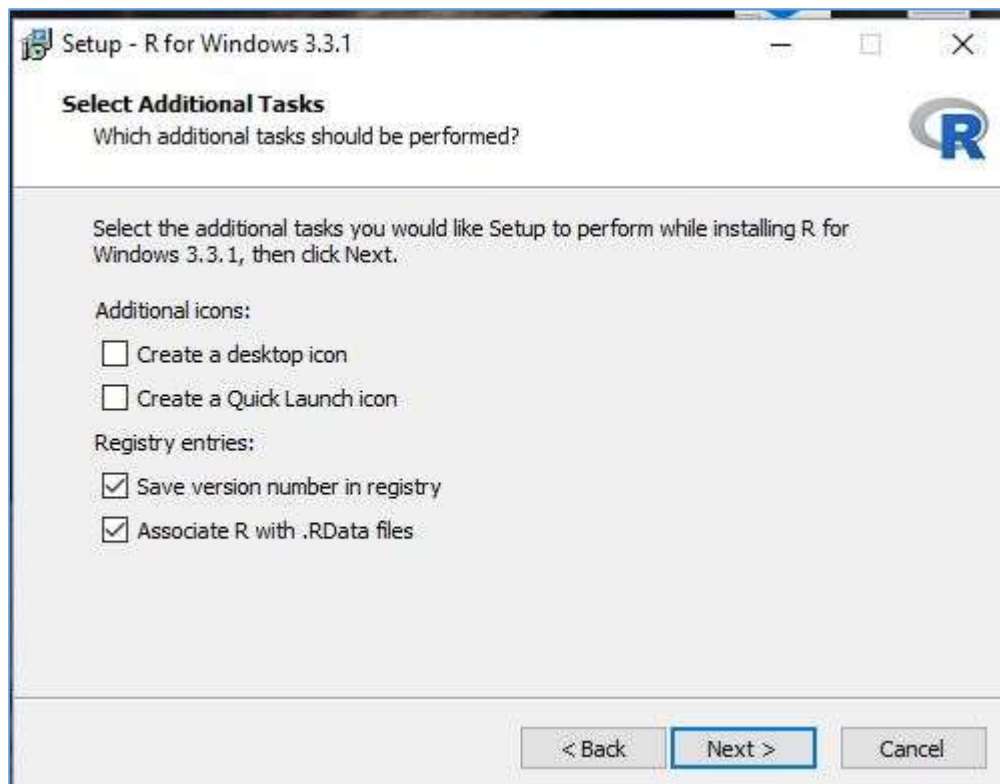
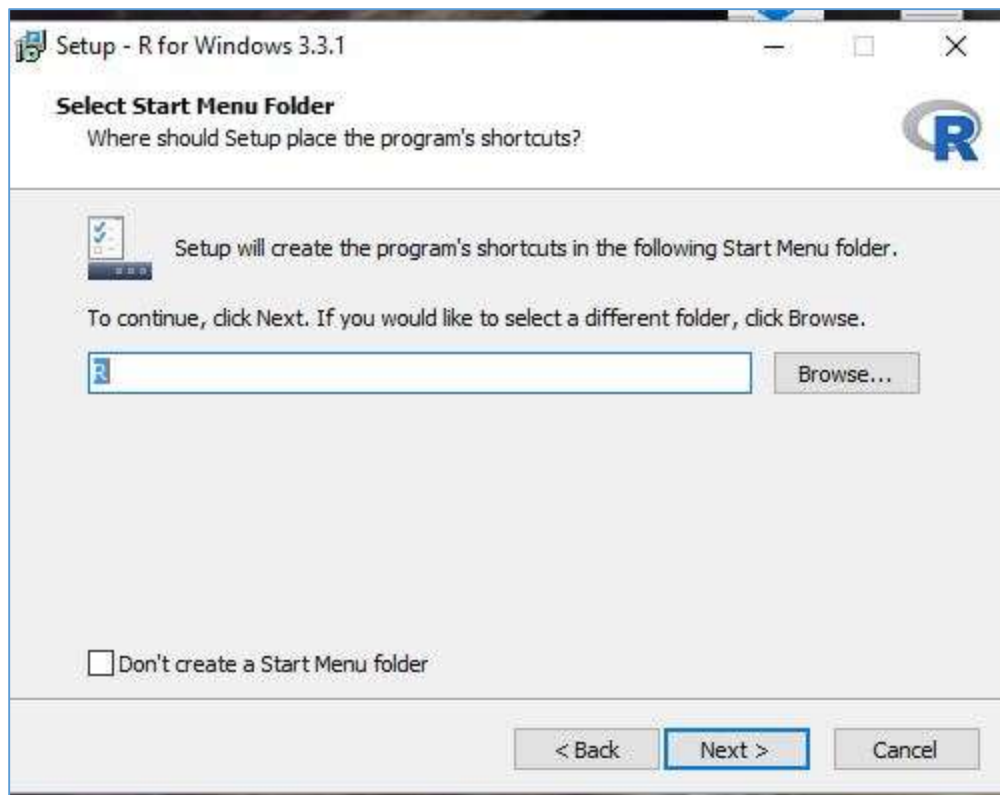


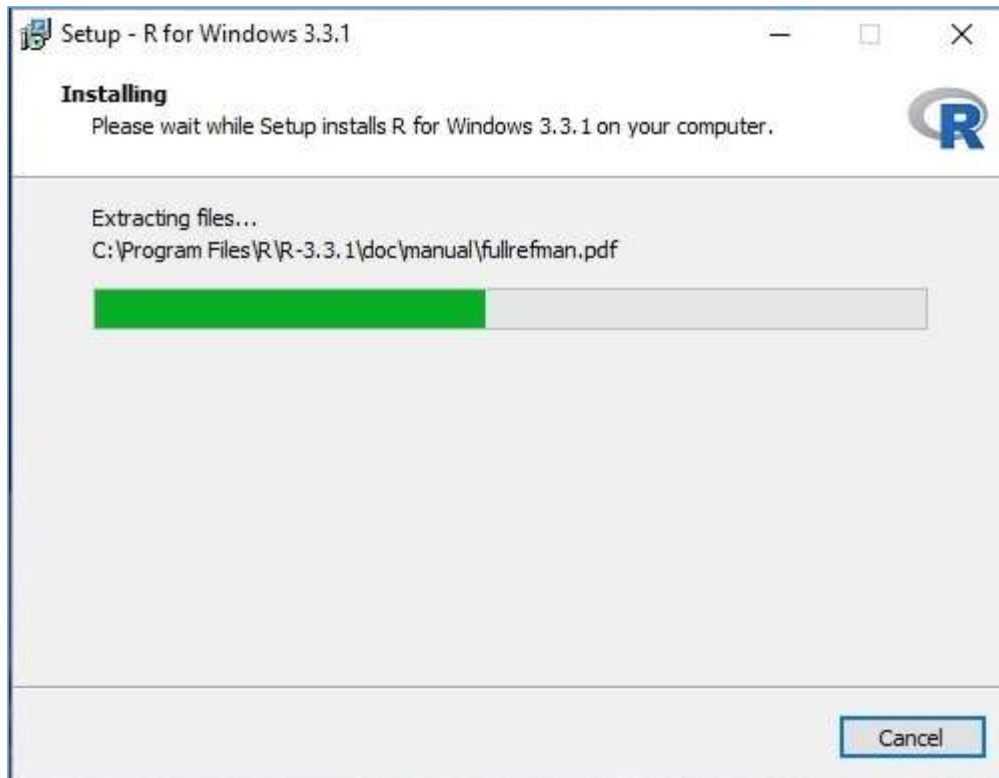
h. You'll see the following series of stuff (but with 3.4.3 as the version number):





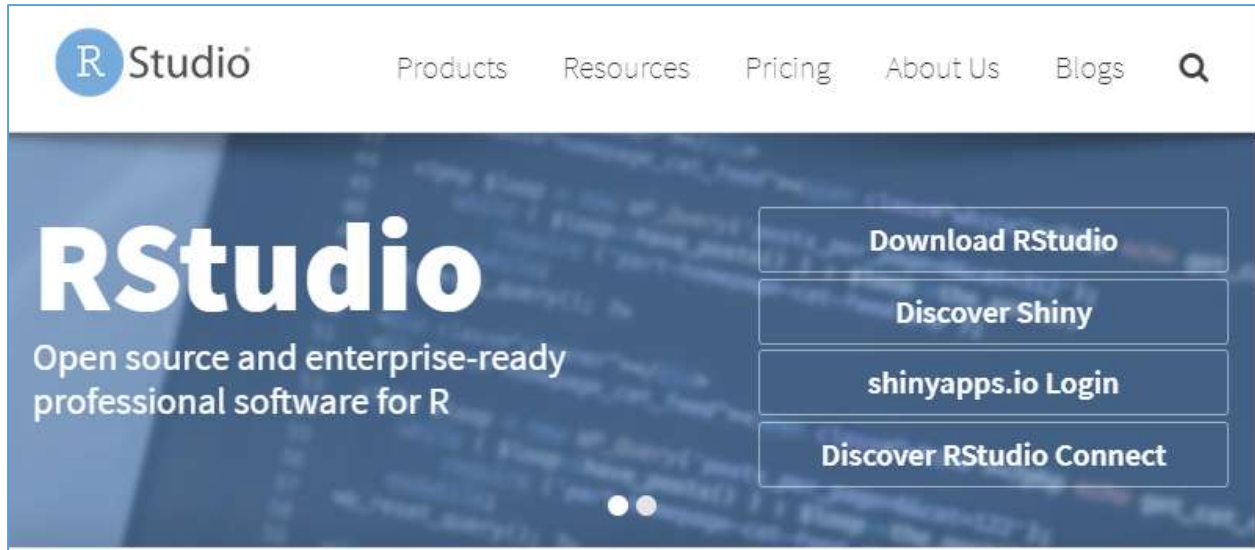






2. Install RStudio

- a. Go to <https://www.rstudio.com/>

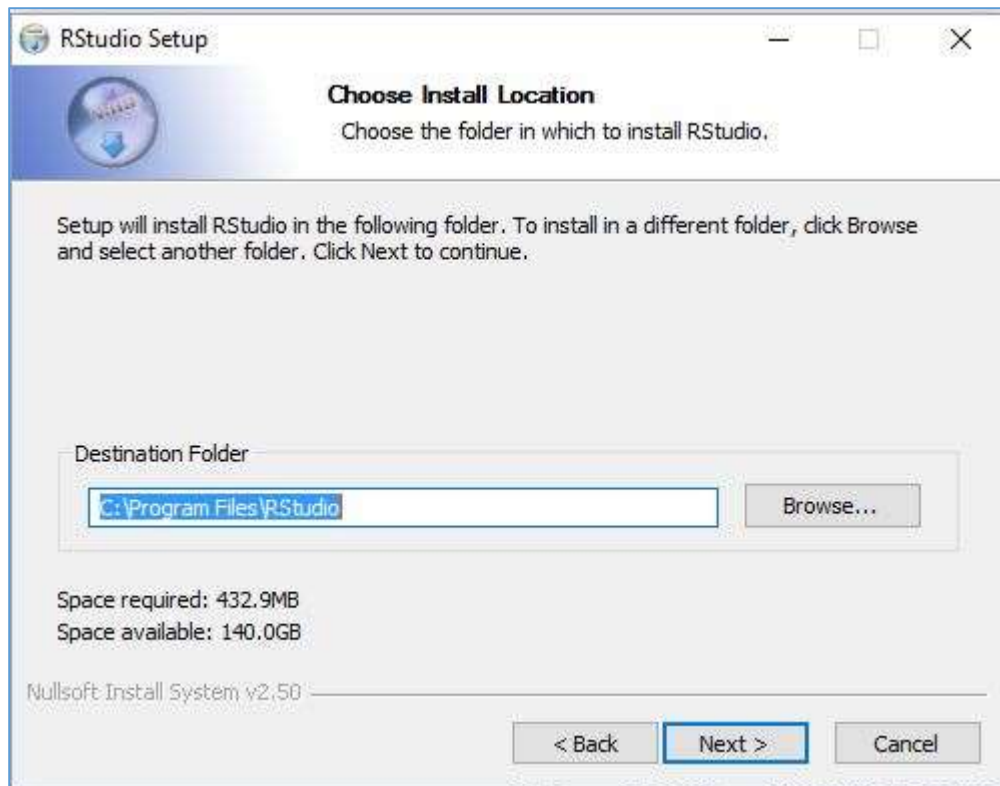


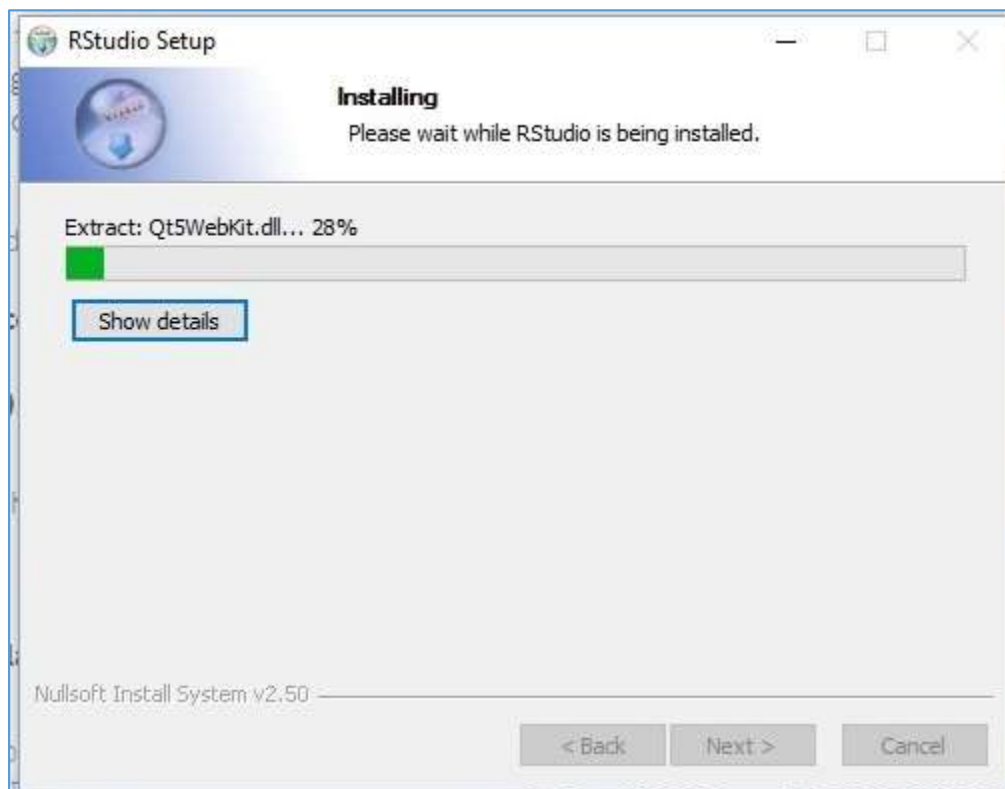
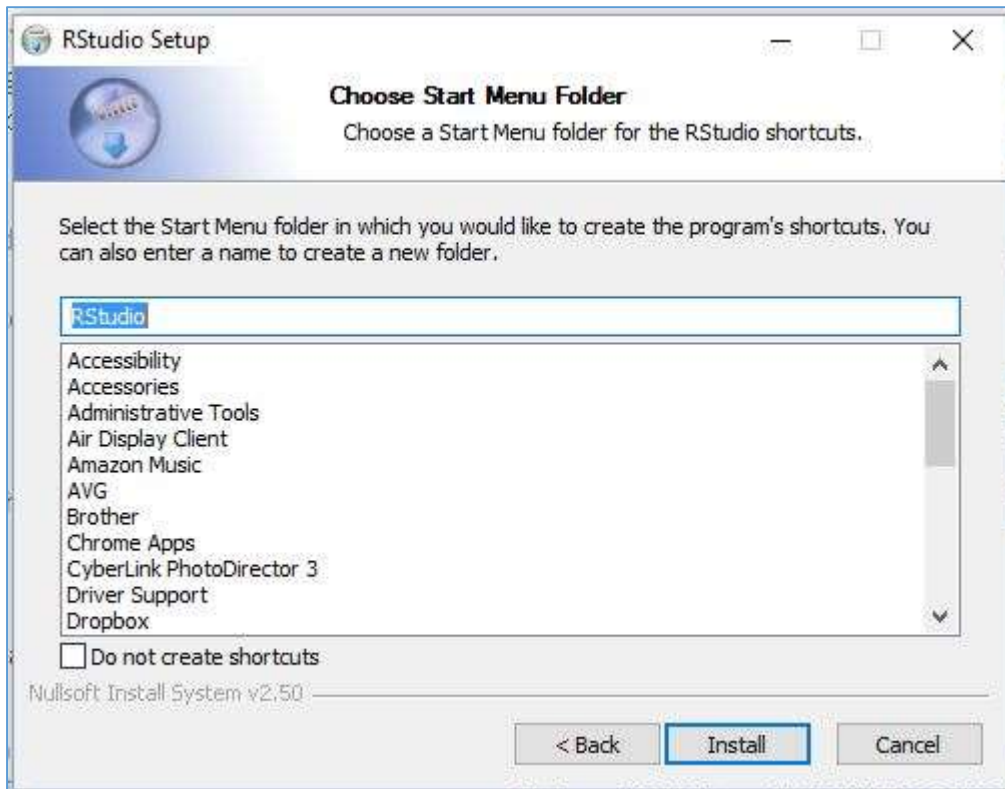
- b. Click on Download Rstudio
- c. There will be several versions. You want RStudio Desktop – Open Source License. It should be

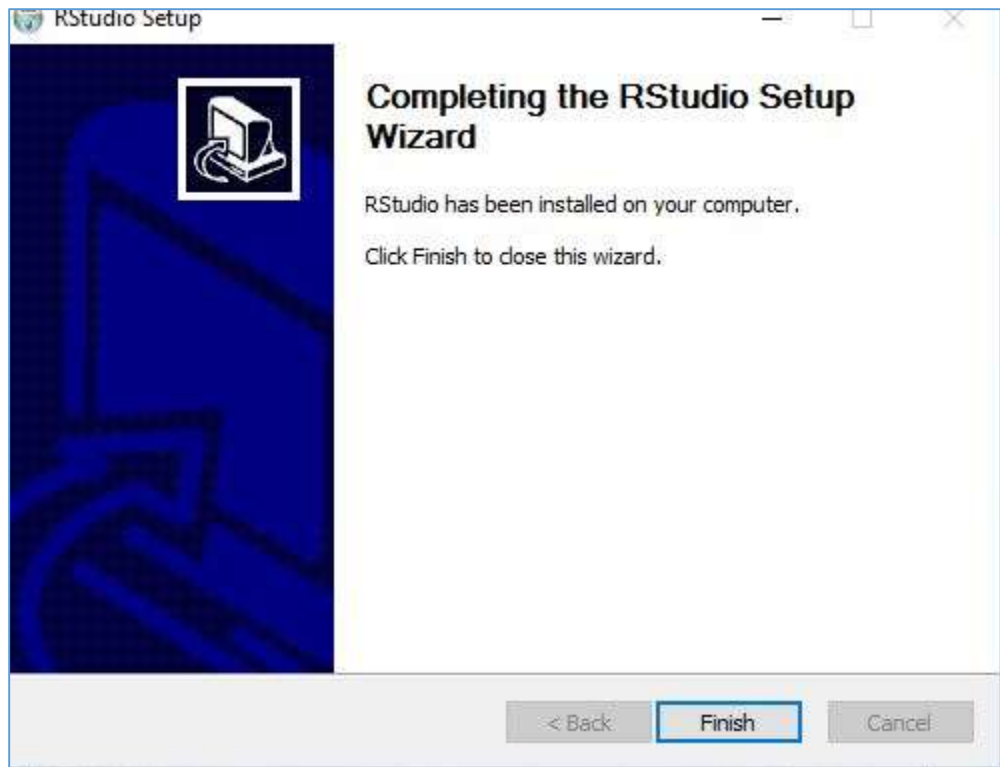


the one all the way to the left. Click the button.

- d. Select your platform (e.g. **RStudio 1.1.423 - Windows Vista/7/8/10** for Windows). This will download the file to your computer.
- e. Run it. You'll see something like the following:

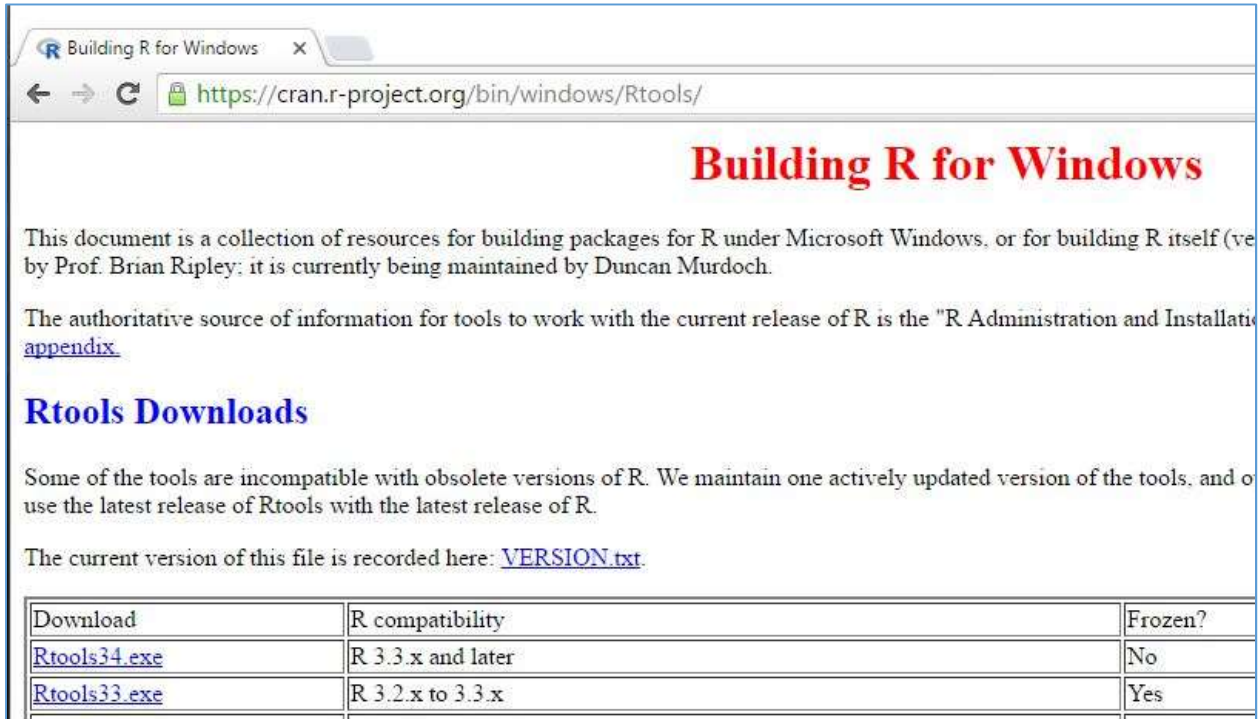






3. Install Rtools

- This is necessary if you want to use a package that exports Excel workbooks (like openxlsx).
- Good reference: <https://github.com/stan-dev/rstan/wiki/Install-Rtools-for-Windows>
- Go to <http://cran.r-project.org/bin/windows/Rtools/>



Building R for Windows

This document is a collection of resources for building packages for R under Microsoft Windows, or for building R itself (written by Prof. Brian Ripley; it is currently being maintained by Duncan Murdoch).

The authoritative source of information for tools to work with the current release of R is the "R Administration and Installation" [appendix](#).

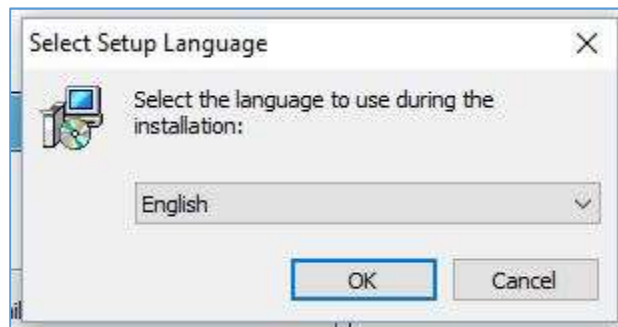
Rtools Downloads

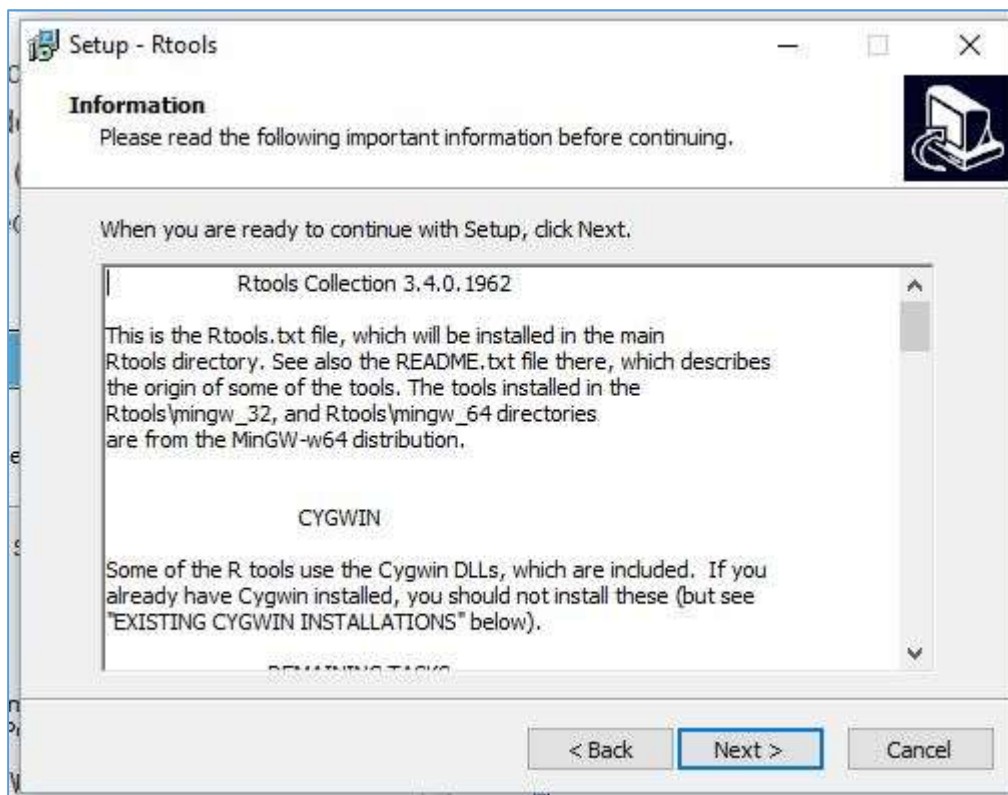
Some of the tools are incompatible with obsolete versions of R. We maintain one actively updated version of the tools, and only use the latest release of Rtools with the latest release of R.

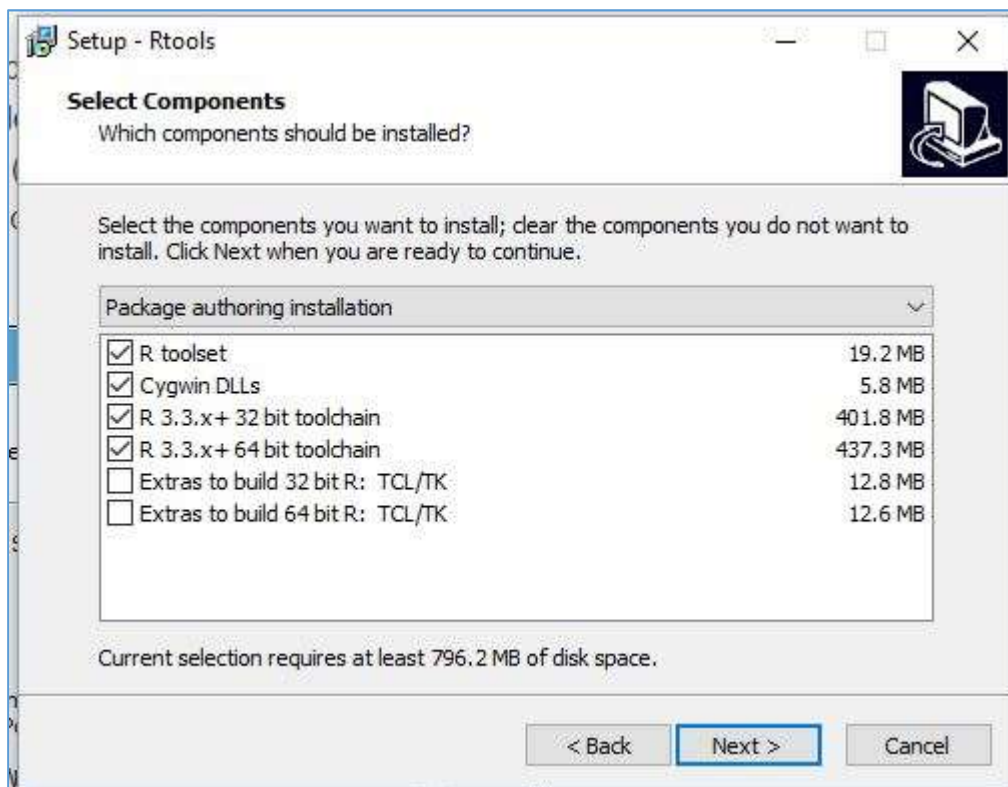
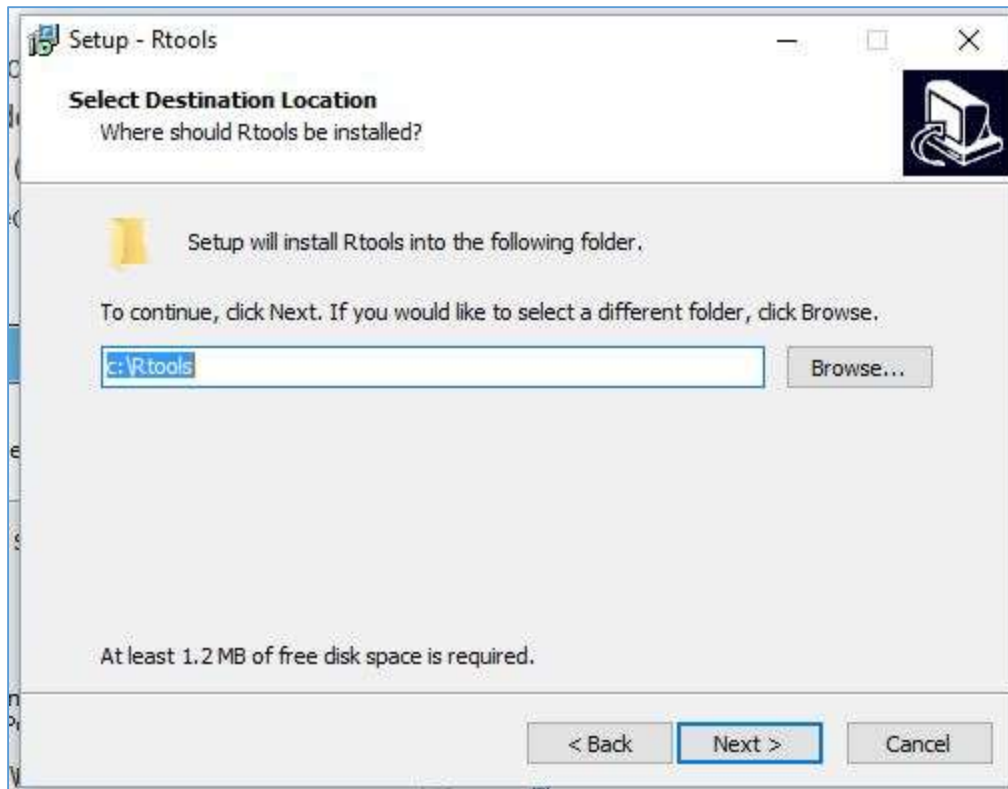
The current version of this file is recorded here: [VERSION.txt](#).

Download	R compatibility	Frozen?
Rtools34.exe	R 3.3.x and later	No
Rtools33.exe	R 3.2.x to 3.3.x	Yes

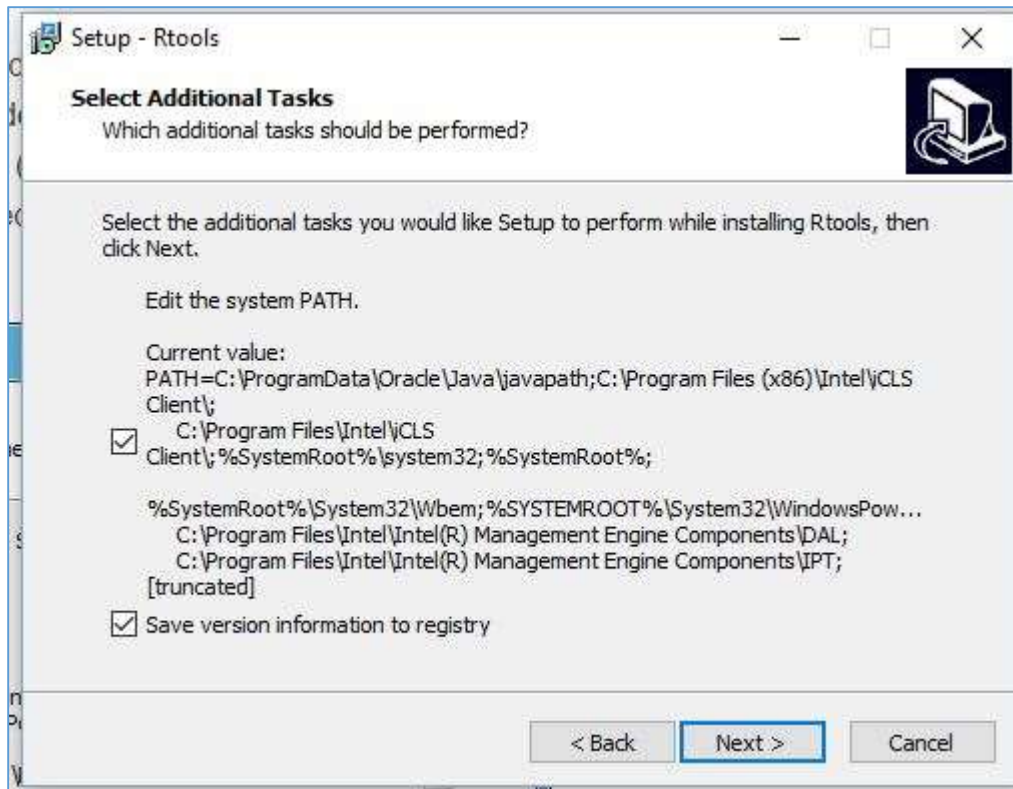
- Click on the most recent version (probably Rtools34.exe)
- Run the downloaded file – Rtools34.exe



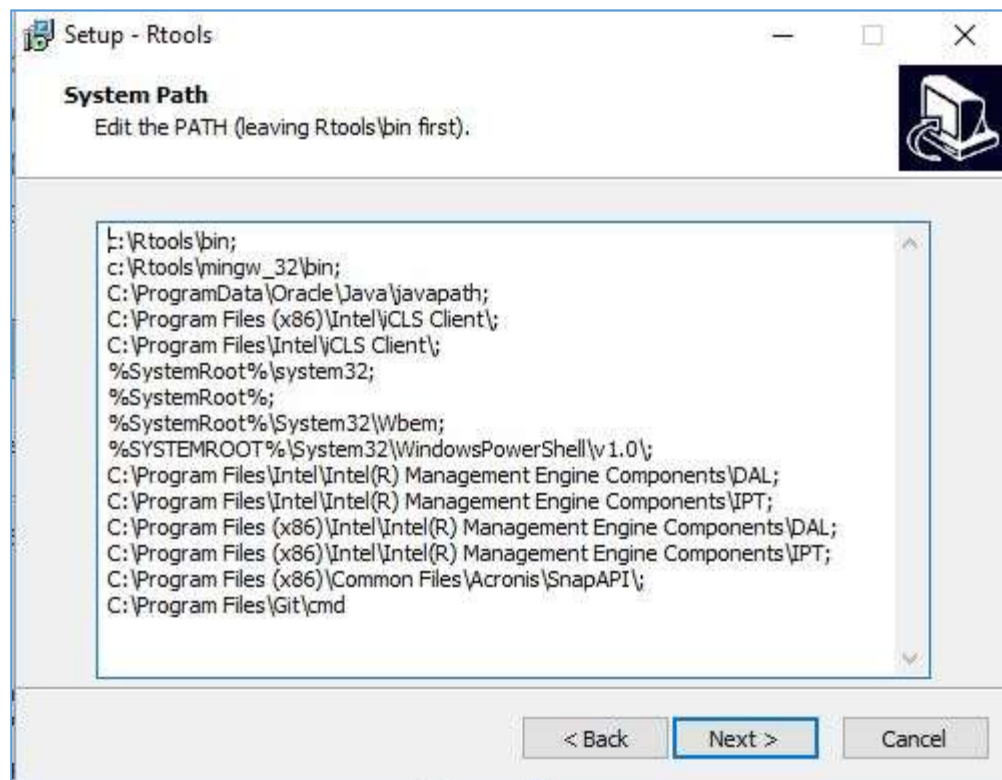


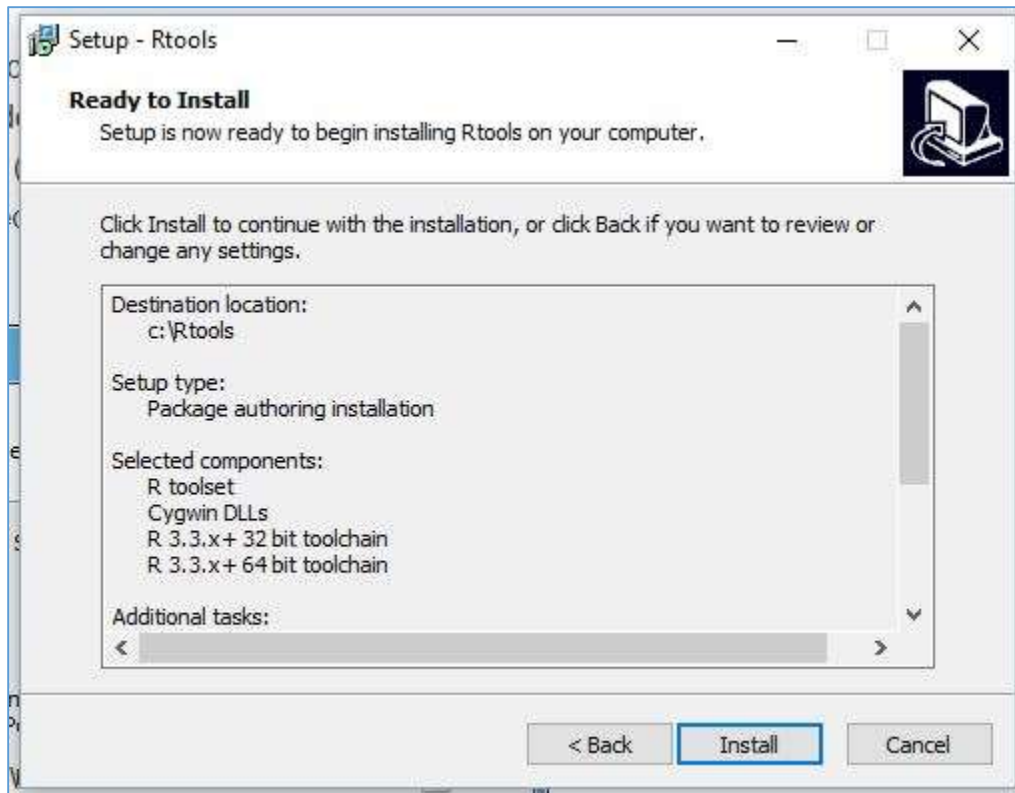


- f. On the Select Additional Tasks step, make sure both boxes are checked.



g. On the System Path step, don't change anything





- h. Close RStudio and reopen it.
- i. In the console (the lower left pane), enter `Sys.getenv("PATH")` and hit enter. You should see `c:\Rtools\bin;c:\Rtools\mingw_32\bin;` in the output. If you don't, you probably did something wrong, and should just try reinstalling Rtools.