

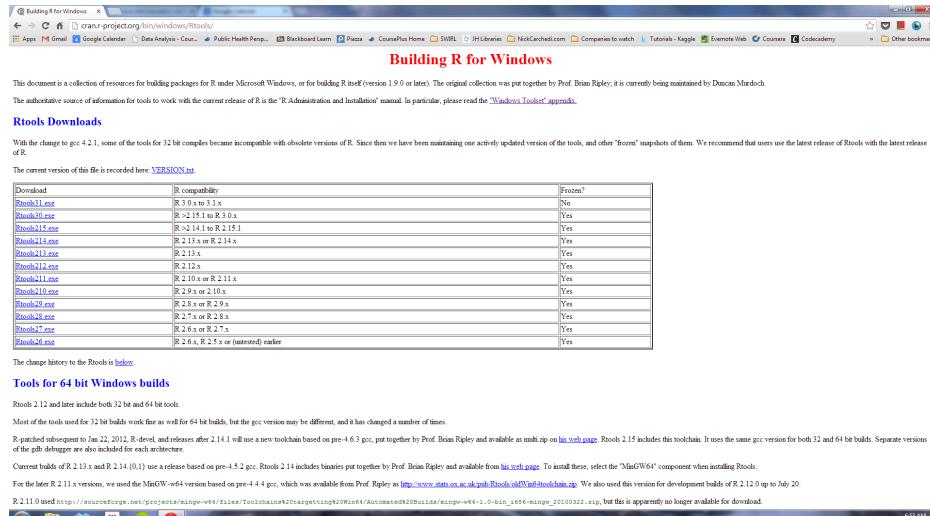


# Installing Rtools

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# What is Rtools?

- A collection of tools necessary for building R packages in Windows
- Available for download at <http://cran.r-project.org/bin/windows/Rtools/>



The screenshot shows a Windows desktop with a browser window open to the 'Building R for Windows' page. The page contains a table of Rtools versions and their compatibility with different R versions. The table is as follows:

Download	R compatibility	Frozen?
Rtools132.exe	R 3.0.x to 3.1.x	No
Rtools130.exe	R > 2.15.1 to R 3.0.x	Yes
Rtools214.exe	R > 2.14.1 to R 2.15.1	Yes
Rtools214.exe	R 2.13.x or R 2.14.x	Yes
Rtools213.exe	R 2.13.x	Yes
Rtools212.exe	R 2.12.x	Yes
Rtools211.exe	R 2.10.x or R 2.11.x	Yes
Rtools210.exe	R 2.9.x or R 10.x	Yes
Rtools29.exe	R 2.8.x or R 2.9.x	Yes
Rtools212.exe	R 2.7.3.x or R 2.8.x	Yes
Rtools27.exe	R 2.6.x or R 2.7.x	Yes
Rtools26.exe	R 2.6.x, R 2.5.x or (untested) earlier	Yes

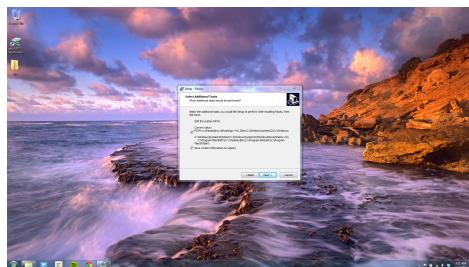
The page also includes a note about the change history and links to the Rtools GitHub repository.

# Download Rtools

- Select the .exe download link from the table that corresponds to your version of R
  - Note: If you're not sure what version of R you have, open or restart R and it's the first thing that comes up in the console
- If you have the most recent version of R, you should select the most recent Rtools download (at the top of the chart)
- Once the download completes, open the .exe file to begin the installation

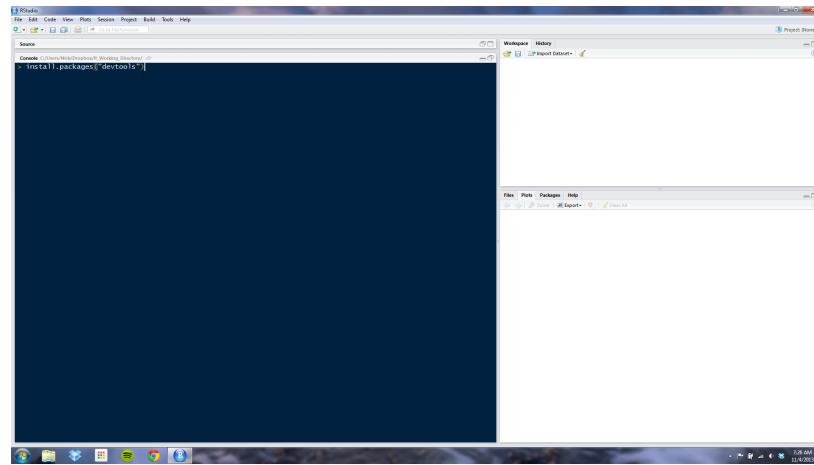
# Install Rtools

- Unless you really know what you are doing, you should just go with the default selections at each step of the installation
- There are only two exceptions worth noting:
  - If you already have Cygwin installed on your machine, you should follow the instructions given during installation (and linked to here: <http://cran.r-project.org/bin/windows/Rtools/Rtools.txt>)
  - IMPORTANT: You should make sure that the box is checked to have the installer edit your PATH (see below).*



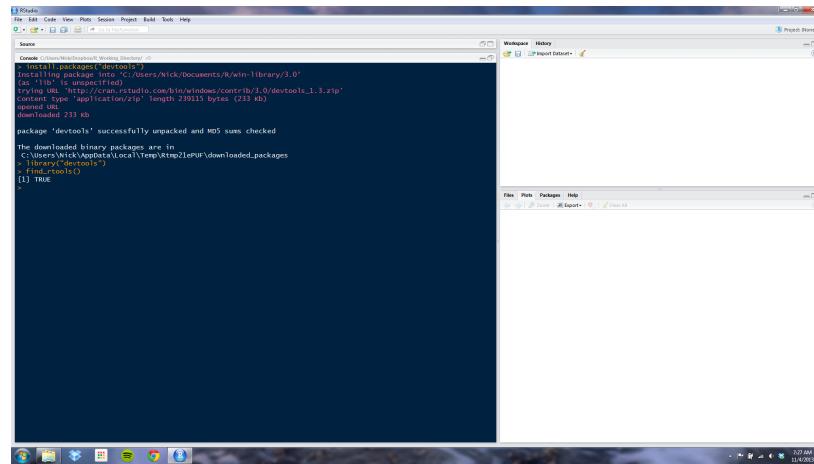
# Install devtools

- Once the Rtools installation completes, open RStudio
- Install the devtools R package if you have not previously done so
  - If you aren't sure, enter `find.package("devtools")` in the console
- To install devtools, use `install.packages("devtools")`



# Verify Rtools installation

- After devtools is done installing, load it using `library(devtools)`
- Then type `find_rtools()` as shown below
- This should return TRUE in the console if your Rtools installation worked properly



A screenshot of the RStudio interface. The left pane shows the R console with the following text:

```
> install.packages("devtools")
Installing package into 'C:/Users/Nick/Documents/R/win-library/3.0'
(through *rtools*)
trying URL 'http://cran.rstudio.com/bin/windows/control/3.0/devtools_1.3.zip'
Content type 'application/x-zip' length 299113 bytes (293 KB)
opened URL
downloaded 293 KB

package 'devtools' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
C:/Users/Nick/Documents/R/win-library/3.0
> library("devtools")
> find_rtools()
[1] TRUE
```

The right pane shows the "Project" view with a single file named "Data.R".