

## Instructions for downloading and installing R and RStudio. As well as Rtools and packages required for the workshop

Please email Jason Doll [jason.doll@fmarion.edu](mailto:jason.doll@fmarion.edu) or call 843-661-1481, if you have any issues.

Visit the website below to install R and Rstudio.

<https://posit.co/download/rstudio-desktop/>

### Step 1: Install R

- A. Click "DOWNLOAD AND INSTALL R" ----->
- B. You will be linked to the R website where you can select the R version for your operating system. The link for Windows is circled. Click "macOS" if you have a Mac

## 1: Install R

RStudio requires R 3.3.0+. Choose a version of R that matches your computer's operating system.

DOWNLOAD AND INSTALL R

### 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](#) ([Debian](#), [Fedora/Redhat](#), [Ubuntu](#))
- [Download R for macOS](#)
- [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

- C. Select "install R for the first time"

Subdirectories:

[base](#)

[contrib](#)

[old contrib](#)

[Rtools](#)

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

Binaries of contributed CRAN packages (for R  $\geq$  3.4.x).

Binaries of contributed CRAN packages for outdated versions of R (for R  $<$  3.4.x).

Tools to build R and R packages. 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 Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

- D. Select "Download R-4.3.2 for Windows". Note the version number might be higher. Version 4.3.2 is the most recent version at the time of this writing (11/28/2023). Mac users will see a different screen. Find your version of Mac OS and click the installer for that version.

[Download R-4.3.2 for Windows](#) (79 megabytes, 64 bit)

[README on the Windows binary distribution](#)

[New features in this version](#)

- E. The installation file will download to your default download location. This is typically the "Download" folder for Windows. Open the installer and follow the installation prompts, accepting the default selections.

## Step 2: Install RStudio Desktop

<https://posit.co/download/rstudio-desktop/>

- Click “DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS”
- This will download the installer.
- Open the installer and follow the installation prompts. Accept all default options.

# 2: Install RStudio

DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS

Size: 214.34 MB | [SHA-256: FE62B784](#) | Version: 2023.09.1+494 | Released: 2023-10-17

## Step 3: Install Rtools

You must have the most updated version of R to install Rtools43. If you have an earlier version, email me and I can walk you through alternatives. Rtools is needed to install and compile one of the R packages

*Windows users:*

<https://cran.r-project.org/bin/windows/Rtools/rtools43/rtools.html>

Find and click “Rtools43 installer” in the middle of the screen. Install the file with default options selected.

*Mac users:*

Install <https://mac.thecoatlessprofessor.com/macrttools/>

## Step 4: Install packages

R packages needed for workshop

- FSA
- FSAdata
- ggplot2
- ggtext
- nlstools
- dplyr
- rstan
- brms

These packages can be installed with the following line of R code. Copy and past the line below into the R console and click “enter”. Some of these packages will take a few minutes to compile and install.

##Begin R Code##

```
install.packages( c("FSA", "FSAdata", "ggplot2", "ggtext", "nlstools", "dplyr", "rstan", "brms"))
```

#End R Code