

## Install R and RStudio:

First, you will need to install R and RStudio. R is the name of the programming language itself and RStudio is a convenient interface.

- **Install R:** Go to <https://cran.r-project.org/> and follow the link for your operating system.
- **Install RStudio:** Go to <https://www.rstudio.com/products/rstudio/download/preview/> and click on the installer link for your operating system. Note that you need this updated preview version for labs in this course, so please make sure to install this version even if you have previously installed RStudio.

See [this video](#) for step-by-step installation instructions if needed.

**NOTE:** If you already have R and RStudio installed, you should still visit these links to confirm that you have the most recent versions of these software. The most recent version of R can be found on [The R Project for Statistical Computing](#) page and the most recent version of RStudio can be found on the [Download RStudio page](#). Please install the most recent versions before proceeding.

## Install R packages:

Install and load devtools:

We will use the devtools package to install the statsr package associated with this course. We need to install and load this package. Launch RStudio, and the following commands in the **Console**:

```
install.packages("devtools")  
library(devtools)
```

Install all other packages:

Now we can install the rest of the packages we will use in this lab. Type the following commands in the **Console** as well:

```
install_github("StatsWithR/statsr")  
install.packages("dplyr")  
install.packages("ggplot2")  
install.packages("shiny")
```

The uses of these packages will be discussed in detail in the lab(s).

## Download and Knit the lab:

Next, download the R Markdown file linked below, open it in RStudio, and Knit the file using either the Knit button or the Run Document button (equivalent). This document contains the instructions for the lab. **IMPORTANT:** You must

download and Knit this file and be able to view the instructions in it to complete the Week 1 Lab, so make sure to complete these steps before starting the lab.

sampling\_distributions\_Coursera.Rmd

As you go through the contents of the lab instructions document you will encounter multiple choice questions, make sure to submit your answers to those questions in the lab section (next item) to get credit. The ones marked with Exercise are for your own practice -- you don't need to submit your answers to them.