

# R, RStudio and CRAN Packages Installation Guides

## ***IMPORTANT: Computer Hardware and Operating System Assumptions***

In the following installation guides, we assume that your machine runs on either Mac or Windows.

If you happen to use Linux or another operating system, certain setups can get hairier and there may be a need to consult Dr. Google heavily. You may contact the Teaching Assistants for individualized assistance, although there is no definite promise we can solve non-Mac, non-Windows problems.

## **1. R Installation**

Go [here](#) to download a graphical installer of R appropriate for your machine's processor (32-bit / 64-bit) and operating system (Mac / Windows). Run the installer and follow its instructions to install the software into a folder you prefer.

### **1.1. For Windows users only**

Windows users need one extra step to make sure you can run the command ***Rscript.exe*** from the command-line terminal.

Go to **Control Panel > System > Advanced System Settings > Environment Variables**, look under the **System Variable** sector for the variable **Path**, and append the following path to the existing text:

***[Your R Installation Folder]/bin***

Open the command-line terminal via **Start Menu > Run > cmd**. Enter the following command and verify that it returns the folder path containing the ***Rscript.exe*** file:

***where Rscript***

## **2. RStudio Installation**

RStudio is the most popular integrated development environment (IDE) for R.

Go [here](#) to download a graphical installer of RStudio appropriate for your machine's processor (32-bit / 64-bit) and operating system (Mac / Windows). Run the installer and follow its instructions to install the software into a folder you prefer.

## **3. CRAN Packages Installation**

We need to install a number of packages from the **Comprehensive R Archive Network (CRAN)**, a repository of open-source packages developed in R.

### **3.1. Mac**

Open the command-line terminal via the **iTerm app**.

Navigate to the **<Course Repo Folder>/Setup Guides & Tool Tutorials/R/** folder.

Run the command **Rscript RInstallPackages.R** to install the R packages necessary for this course.

## 3.2. Windows

Open the command-line terminal via **Start Menu > Run > cmd**.

Navigate to the *<Course Repo Folder>/Setup Guides & Tool Tutorials/R/* folder.

Run the command **Rscript RInstallPackages.R** to install the R packages necessary for this course.