

# Getting Started with R and RStudio

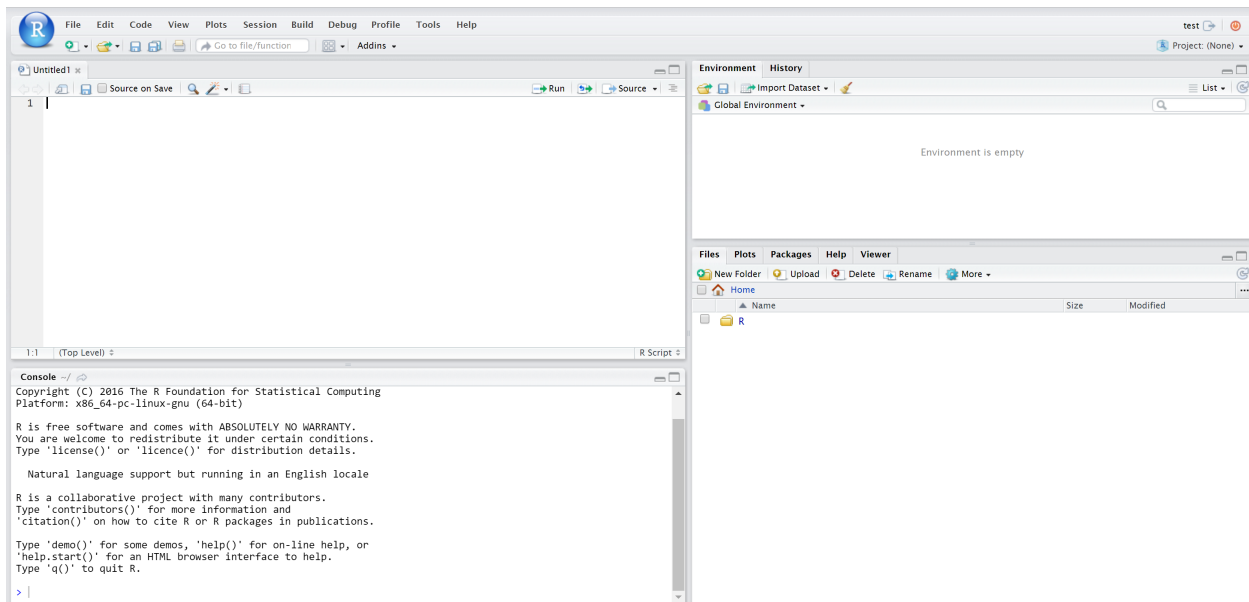
R is an open-source statistical language that is widely used in biostatistics and computational biology, among other fields of research. *RStudio* is a “front end” to R that simplifies important aspects of using R, making it much easier to work within the R environment. Both R and *RStudio* run identically under the Mac OSX, Microsoft Windows, and Linux.

## Installing R and *RStudio*

First, download R from <http://cran.us.r-project.org/>. Versions are available for Windows, Mac OS X, and Linux. Follow the instructions when running the installation program, selecting the default options when prompted.

*RStudio* can be downloaded from <https://www.rstudio.com/products/rstudio/download/>. Scroll down to “Installers for Supported Platforms” and select the appropriate version for your system. Leave all default settings in the installation options.

## The RStudio Console



## R Tutorial

1. The *RStudio* environment is organized by panes, with the default layout shown above; the script editor and console are on the top and bottom left, and there are additional panes on the right.
  - a) The script editor is used to create and edit files, such as R script files. Multiple files can be open at once, and will appear as separate tabs. If the script editor is not visible, a new file can be created via *File > New File > R Script*.

- b) When commands are run in the script editor, the commands and the corresponding output appear in the console.

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