RStudio Installation Guide

Vivekananda Adepu-800967951
Rohith kumar Addagalla-800970444
Siva Ram Praneeth Vemulapalli-800966497

RStudio Download:

1. Go to the following link: https://www.rstudio.com/products/rstudio/download3/
2. Download RStudio 0.99.903 - Windows Vista/7/8/10 IDE installer onto your windows machine.
3. Once download is finished double click RStudio-0.99.903.exe file.
4. The installation wizard will begin. Follow the instructions to proceed with installation.

Sources, binaries and documentation for R can be obtained via CRAN, the "Comprehensive R Archive Network" whose current members are listed at https://CRAN.R-project.org/mirrors.html.

Installing R under Unix:

To install we use yum command to install R as follows −

```
$ yum install R
```

Above command will install core functionality of R programming along with standard packages, still you need additional package, then you can launch R prompt as follows −

```
$ R
R version 3.2.0 (2015-04-16) -- "Full of Ingredients" Copyright
(C) 2015 The R Foundation for Statistical Computing Platform:
x86_64-redhat-linux-gnu (64-bit)
R is free software and comes with ABSOLUTELY NO
WARRANTY. You are welcome to redistribute it under certain
conditions.
Type 'license()' or 'licence()' for distribution details.
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

Installing R under Windows:

The bin/windows directory of a CRAN site contains binaries for a base distribution and many add-on packages from CRAN to run on 32- or 64-bit Windows (XP or later) on 'ix86' and 'x86_64' CPUs. Your file system must allow long file names (as is likely except perhaps for some network mounted systems). If it doesn't also support conversion to short name equivalents (a.k.a. DOS 8.3 names), then R must be installed in a path that does not contain spaces. Installation is via the installer

R-3.3.1-win.exe. Just double-click on the icon and follow the instructions. When installing on a 64-bit version of Windows the options will include 32- or 64-bit versions of R (and the default is to install both).

You can uninstall R from the Control Panel. Note that you will be asked to choose a language for installation, and that choice applies to both installation and un-installation but not to running R itself. See the R Windows FAQ (https://CRAN.R-project.org/bin/windows/base/rw-FAQ.html) for more details on the binary installer.

Installing R under OS X:

The front page of a CRAN site has a link 'Download R for OS X'. Click on that, then download the file R-3.3.1.pkg and install it. This runs on OS X 10.9 and later (Mavericks, Yosemite, El Capitan, . . .).

Installers for R-patched and R-devel are usually available from https://r.research.att.com.

It is important that if you use a binary installer package that your OS is fully updated: look at 'Updates' from the 'App Store' to be sure. To install, just double-click on the icon of the file you downloaded. At the 'Installation Type' stage, note the option to 'Customize'. This currently shows four components: everyone will need the 'R Framework' component: the remaining components are optional. (The 'Tcl/Tk' component is needed to use package tcltk. The 'Texinfo' component is only needed by those installing source packages.) This is an Apple Installer package. If you encounter any problem during the installation, please check the Installer log by clicking on the "Window" menu and item "Installer Log".

The full output (select "Show All Log") is useful for tracking down problems. Various parts of the build require XQuartz to be installed: see https://xquartz.macosforge.org/. These include the tcltk package and the X11 device: attempting to use these without XQuartz will remind you. If you update your OS X version, you should re-install R (and perhaps XQuartz): the installer tailors the installation to the current version of the OS.

Editing and Executing Code in RStudio Overview:

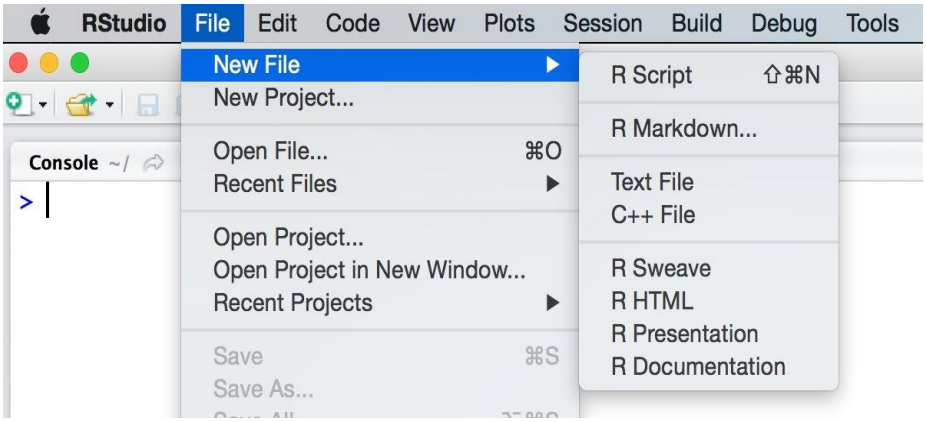
RStudio's source editor includes a variety of productivity enhancing features including syntax highlighting, code completion, multiple-file editing, and find/replace. Rstudio also enables you to flexibly execute R code directly from the source editor.

Managing Files:

RStudio supports syntax highlighting and other specialized code-editing features for:

R scripts, R Markdown documents, Sweave documents, HTML files, TeX documents, and many more. We are working on R script only

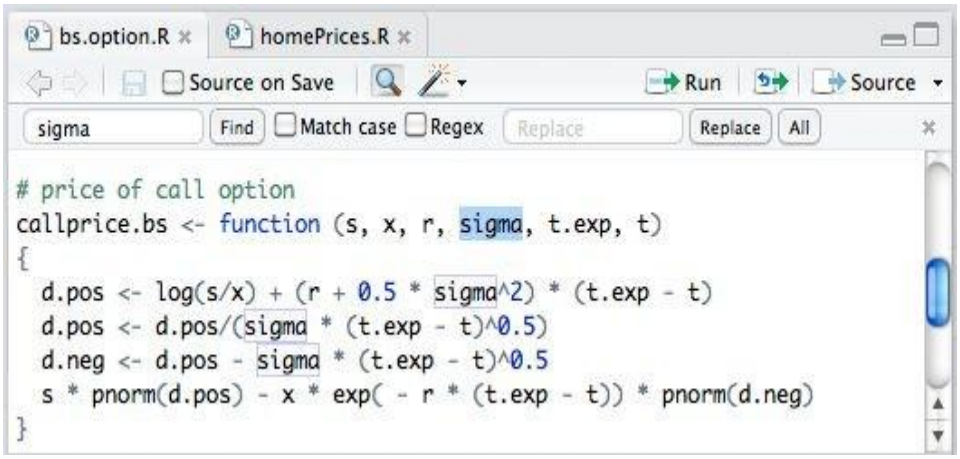
To create a new file, you use the File -> New File ->R Script:



To open an existing file you use either the File -> Open File... menu or the Recent Files menu to select from recently opened files.

Find and Replace:

RStudio supports finding and replacing text within source documents:



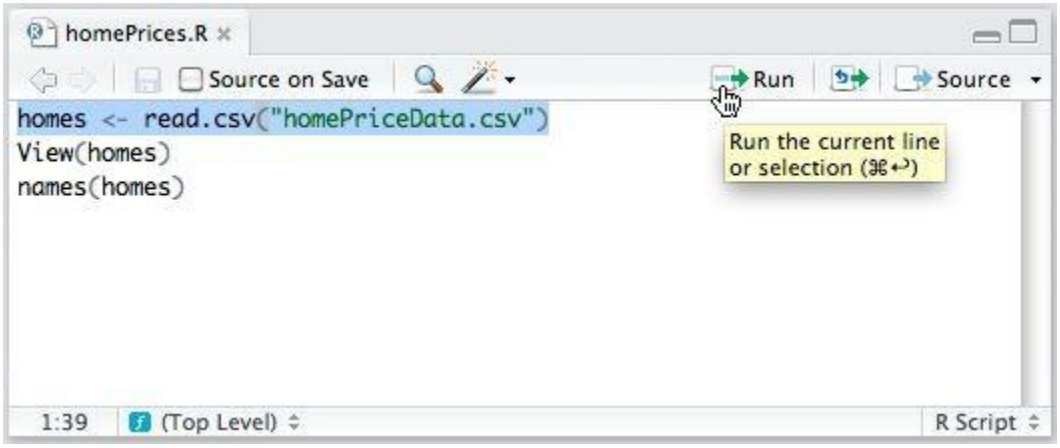
Find and replace can be opened using the Ctrl+F shortcut key, or from the Edit -> Find... menu item.

Executing Code:

RStudio supports the direct execution of code from within the source editor (the executed commands are inserted into the console where their output also appears).

Executing a Single Line:

To execute the line of source code where the cursor currently resides you press the Ctrl+Enter key (or use the Run toolbar button):



After executing the line of code, RStudio automatically advances the cursor to the next line. This enables you to single-step through a sequence of lines.

Executing Multiple Lines:

There are three ways to execute multiple lines from within the editor:

Select the lines and press the use the Run toolbar button (or Ctrl+Enter key); or

After executing a selection of code, use the Re-Run Previous Region command (or its associated toolbar button) to run the same selection again. Note that changes to the selection including additional, removal, and modification of lines will be reflected in this subsequent run of the selection.

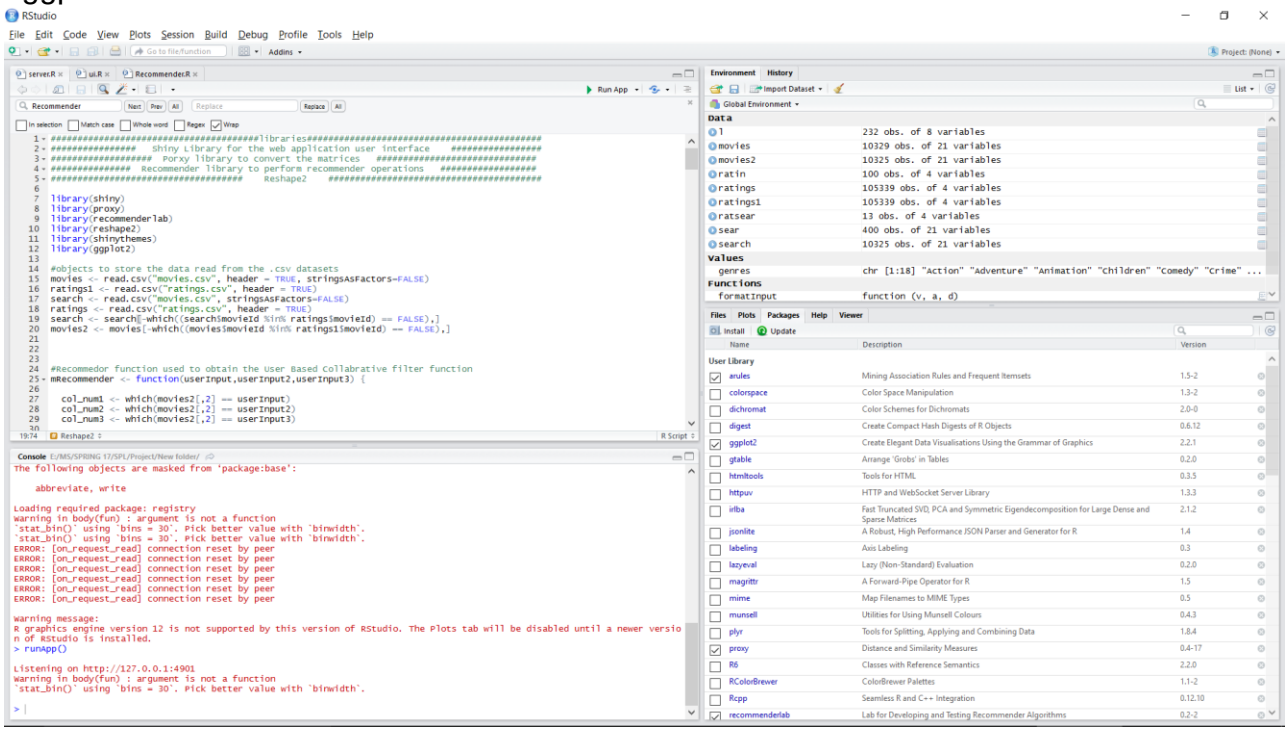
To run the entire document, press the use the Source toolbar button (or Ctrl+Shift+Enter key)

To run the project file:

Click on the install packages on the right panel in the RStudio and search for the library files and click on install the selected packages.

For the movie recommendation engine, you need to download the following libraries

1. Shiny
2. Proxy
3. Recommenderlab
4. reshape2
5. shinythemes
6. ggplot2



After installing the packages run all the codes and click on the RunAPP or compile the code “runApp()”.