

R Setup Guide

This document contains a systematic installation of R and RStudio from the cran website.

Step 1: Installation of R

- Go to the following link to install R: <http://cran.r-project.org>
- Please make sure that you select the package compatible with your operating system

Step 2: Installation of RStudio

- Go to the following link to download RStudio:
<http://www.rstudio.com/products/rstudio/download/>
- Please make sure that you select the package compatible with your operating system

Step 3: Installation of packages

- Run RStudio and explore the environment
- Install the following packages from your repository. You may use the `install.packages()` function available in R to do that
- Run the following command:

`install.packages(<comma_separated package names>, dependencies = TRUE)` in your R console

For example: To install packages `plyr` and `dplyr`, run the following command:

`install.packages("plyr", "dplyr", dependencies = TRUE)`

Module	Packages		Module	Packages
R programming:	plyr dplyr reshape2 sqldf ggplot2 ggmap GGally gcookbook scales		Linear algebra:	lpSolve pracma SparseM Matrix MatrixModels
Statistical modeling:	visualize EnvStats rMR		Predictive modeling:	pbkrtest car alr3 caTools leaps
Data preparation:	sampling mice pwr survival FrF2 DoE.base MASS fitdistrplus car predictmeans caret e1071		Machine learning:	e1071 mice caret party rpart rpart.plot tree MASS lars stats pls randomForest