

R Tutorial – Learn R programming language

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We present you the R Tutorial, to learn R, the basics of R programming language, interfacing data to R from different data sources, creating charts and graphs, and extracting statistical information.

What is R ?

R is an open source programming language. It has become one of the powerful choices for statistical analysis. R helps you to get big picture of your data by calculating statistical parameters like mean, standard deviation, correlation etc.



Features of R

- Open Source and Free to use.
- Works well for statistics.
- Command-Line Programming Language – But IDEs like R Studio and plugins to the popular IDEs like Eclipse, etc., are available.
- Easy sharing of Results or Analysis.
- Integration with other packages and programming languages.
- R programming is easy and informative.

R Tutorial

In our R Tutorial, we shall take you through the following topics :

- R Installation
- [R Script File Basic Syntax](#) – R Tutorial to understand the basic syntax of R commands and R script file.
- [R Data Types](#) – Learn R basic data types with examples.
- [R Variables](#) – Learn R variables, rules followed to name a variable, commands to list down all the variables in the scope or delete any of them if necessary. Also learn the ways to assign a value to R Variable.
- [R Operators](#) – Learn R Operators : R Arithmetic Operators, R Relational Operators, R Logical Operators, R Assignment Operators, R Miscellaneous Operators with example R scripts.
- [R Decision Making](#) Learn R Decision Making Statements
- [R Loops](#) Learn R Loop Statements
- [R Functions](#) Learn about R Functions
- [R Strings](#) Learn about R Strings, rules to define R Strings
- R Vectors
- R Lists
- R Matrices
- R Arrays

- R Factors
- [R Data Frames](#)
 - [Sort R Data Frame by Column](#) R Tutorial
 - [For each row in an R Data Frame](#) R Tutorial
- R Packages
- R Data Reshaping

Data Interfacing – from different sources of data to R language

- [R CSV Files](#) – Learn R functions to read CSV Files, analyze or filter data read from CSV Files, and write back filtered data to CSV Files.
- R Excel Files
- R Binary Files
- R XML Files
- R JSON Files
- R Web Data
- R Database

Charts, Plots & Graphs – R Tutorial

- R Pie Charts
- R Bar Charts
- R Boxplots
- R Histograms
- R Line Graphs
- R Scatterplots

Statistical Analysis

- R Mean
- R Median
- R Mode
- R Linear Regression
- R Multiple Regression
- R Logistic Regression
- R Normal Distribution
- R Binomial Distribution
- R Poisson Regression
- R Analysis of Covariance
- R Time Series Analysis

- R Nonlinear Least Square
- R Decision Tree
- R Random Forest
- R Survival Analysis
- R Chi Square Tests

Conclusion :

With this R Tutorial, we have learnt the basics of R, how to interface data to R from different sources, create charts and graphs, and extract statistical information.