



R Language Course: RStudio, Reporting

Introduction to the R language

- Introduction
- What is R?
- Discover the analytical aspect
- The business intelligence side of R / RStudio
- The areas of use of R
- Discover RStudio

Getting started with the RStudio environment

- Install RStudio
- Configure RStudio
- Use the console
- Install a package
- Use of aids
- Discover the Markdown

The basics of the R language

- The variables
- The functions
- Calculations
- Evaluate flow conditions and controls
- curls
- Create custom features
- Calculate the execution time
- Data structure: matrix
- Data structure: ts
- Data structure: Date and time
- Data structure: factor
- Work environments

Manipulate data structures

- The vectors
- The lists
- Matrices
- DataFrames

Draw a parallel between R and a spreadsheet

Adapt in R / RStudio spreadsheet operations.
Adapt the spreadsheet functions to R / RStudio.
Import and export data (spreadsheet versus R / RStudio)
Exploit the best of both software.

Handling data with R

Importing data
Exporting data
Selection and grouping of data

Case Study: Consolidate the Basics of R Language and RStudio Software

Using tidyverse for more efficiency
Tidyverse modules: dplyr, ggplot2, tibble, readr, tidyr, purrr
Data preparation
Import (and export) datasets.
Understanding the data (Explore and visualize)
Process missing values
Process outliers.
Model: select, filter, sort, modify, add, delete.
Manipulate categorical data.
Manipulate time series.
Produce PDF, HTML, etc. reports

View data with R

Realization of graphs with R software
Customize graphs with R software
Draw maps with R software

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