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

Other Related Courses

Python Training for Data Science