Introduction to R for Data Science

Modality: On Demand Duration: 12 Hours

ABOUT THIS COURSE

R is rapidly becoming the leading language in data science and statistics. Today, R is the tool of choice for data science professionals in every industry and field. Whether you are full-time number cruncher, or just the occasional data analyst, R will suit your needs.

This introduction to R programming course will help you master the basics of R. In seven sections, you will cover its basic syntax, making you ready to undertake your own first data analysis using R. Starting from variables and basic operations, you will eventually learn how to handle data structures such as vectors, matrices, data frames and lists. In the final section, you will dive deeper into the graphical capabilities of R, and create your own stunning data visualizations. No prior knowledge in programming or data science is required.

What makes this course unique is that you will continuously practice your newly acquired skills through interactive in-browser coding challenges using the DataCamp platform. Instead of passively watching videos, you will solve real data problems while receiving instant and personalized feedback that guides you to the correct solution.

Enjoy!

Course Objective:

- Introductory R language fundamentals and basic syntax
- What R is and how it's used to perform data analysis
- Become familiar with the major R data structures
- Create your own visualizations using R

Prerequisite:

None, but previous experience in basic mathematics is helpful.

Course Outline:

1. Basics

Lecture: R: The true basics
Lab: R: The true basics
Lecture: Basic data types
Lab: Basic Data Types

Further Readings

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2. Vectors

Lecture: Create and name vectorsLab: Create and name vectors

• Lecture: Vector Arithmetic

• Lab: Vector Arithmetic

Lecture: Vector SubsettingLab: Vector Subsetting

Further Readings

3. Matrices

Lecture: Create and name matricesLab: Create and name matrices

Lecture: Matrix subsettingLab: Matrix subsetting

Lab. Matrix Subsetting
 Lecture: Matrix Arithmetic

• Lab: Matrix Arithmetic

Further Readings

4. Factors

Lecture: FactorsLab: Factors

Further Readings

5. Lists

Lecture: Create and name listsLab: Create and name lists

Lecture: Subset and extend listsLab: Subset and extend lists

Further Readings

6. Data frames

Lecture: Explore the data frameLab: Explore the data frame

Lecture: Subset, extend and sort your data frame

· Lab: Subset, extend and sort your data frame

Further Readings

7. Graphics

Lecture: Basic graphicsLab: Basic graphics

Lecture: Customizing your plotsLab: Customizing your plots

Lecture: Multiple plotsLab: Multiple plotsFurther Readings

Final Lab

Final Lab

Final Exam

• Final Exam?