

FREE COURSE

Introduction to R for Data Science (Microsoft)

Replay Course

🕒 0 hours

▶ 0 Videos

📄 103 Exercises

👥 25,877 Participants

📊 11,450 XP



Filip Schouwenaars

Data Science Instructor at DataCamp

Filip is the passionate developer behind several of DataCamp's interactive courses, covering both R and Python. Under the motto 'Eat your own dog food', he has used the techniques DataCamp teaches its students to perform data analysis for DataCamp. Filip holds degrees in Electrical Engineering and Artificial Intelligence.

Course Description

Labs for Introduction to R for Data Science.

1 R: The true basics

100%

Interactive Exercises for R: The true basics.

📄 How it works	✓ 100 xp
📄 Documenting your code	✓ 100 xp
📄 Little arithmetics with R	✓ 100 xp
☰ R's pros and cons	✓ 50 xp
📄 Variable assignment	✓ 100 xp
📄 Variable assignment (2)	✓ 100 xp
📄 Variable assignment (3)	✓ 100 xp
📄 The workspace	✓ 100 xp
📄 Build and destroy your workspace	✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

2 Basic Data Types

100%

Interactive Exercises for Basic Data Types.

</> Basic Data Types

✓ 100 xp

</> Back to Apples and Oranges

✓ 100 xp

☰ What's that data type?

✓ 50 xp

</> Coercion: Taming your data

✓ 100 xp

</> Coercion for the sake of cleaning

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

3 Create and name vectors

100%

Interactive exercises for Create and Name Vectors

</> Create a vector (1)

✓ 100 xp

</> Create a vector (2)

✓ 100 xp

</> Naming a vector (1)

✓ 100 xp

</> Naming a vector (2)

✓ 100 xp

☰ Different ways to create and name vectors

✓ 100 xp

HIDE CHAPTER DETAILS ^

✓ Completed

4 Vector Arithmetic

100%

Interactive Exercises for Vector Arithmetic

</> Summing and subtracting vectors

✓ 100 xp

</>

Calculate your earnings

✓ 100 xp

</>

Calculate total winnings: sum()

✓ 100 xp

</>

Comparing total winnings

✓ 100 xp

</>

First steps in rational gambling

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

5

Subsetting Vectors

100%

Interactive Exercises on Subsetting Vectors

</>

Selection by index (1)

✓ 100 xp

</>

Selection by index (2)

✓ 100 xp

</>

Vector selection: the good times (3)

✓ 100 xp

</>

Selection by name (1)

✓ 100 xp

</>

Selection by name (2)

✓ 100 xp

</>

Selection by logicals (1)

✓ 100 xp

</>

Selection by logicals (2)

✓ 100 xp

</>

Selection by logicals (3)

✓ 100 xp

</>

Vectors: place your bets!

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

6

Create and name matrices

100%

Interactive exercises for Create and Name Matrices

</>

Analyzing matrices, you shall

✓ 100 xp

</>

Analyzing matrices, you shall (2)

✓ 100 xp

</>

Naming a matrix

✓ 100 xp

☰

Valid syntax or not?

✓ 50 xp

</>

Calculating the worldwide box office

✓ 100 xp

</>

Adding a column for the Worldwide box office

✓ 100 xp

</>

Adding a row

✓ 100 xp

</>

The total box office revenue for the entire saga

✓ 100 xp

</>

Matrices: Move it up a notch

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

7

Subsetting Matrices

100%

Interactive exercises for Subsetting Matrices

</>

Select elements

✓ 100 xp

</>

Select rows and columns

✓ 100 xp

</>

Create submatrices

✓ 100 xp

</>

Alternative ways of subsetting

✓ 100 xp

☰

Be selective

✓ 50 xp

</>

Subsetting: The final challenge

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

8

Matrix Arithmetic

100%

Interactive exercises for Matrix Arithmetic

</>

Arithmetic with matrices

✓ 100 xp

</>

Arithmetic with matrices (2)

✓ 100 xp

</>

May the matrix force be with you!

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

9

Factors

100%

Interactive exercises for Factors

</>

Vector to factor

✓ 100 xp

</>

Factor levels

✓ 100 xp

</>

Summarizing a factor

✓ 100 xp

</>

Nominal versus Ordinal, Unordered versus Ordered

✓ 100 xp

</>

Left better than right?

✓ 100 xp

</>

Ordered factors

✓ 100 xp

</>

Ordered factors (2)

✓ 100 xp

</>

Comparing ordered factors

✓ 100 xp

</>

Flying high in factor space

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

10

Create and Name Lists

100%

Interactive Exercises on Create and Name Lists.

</>

Create a list

✓ 100 xp

</>

Listception: lists in lists

✓ 100 xp

</>

Create a named list

✓ 100 xp

</>

Create a named list (2)

✓ 100 xp

</>

List your skills

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

11

Subset and Extend Lists

100%

Interactive Exercises on Subset and Extend Lists.

</>

Selecting elements from a list

✓ 100 xp

</>

Chaining your selections

✓ 100 xp

☰

Vector Subsetting vs. List Subsetting

✓ 50 xp

</>

Extending a list (1)

✓ 100 xp

</>

Extending a list (2)

✓ 100 xp

</>

List your skills (2)

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

12

Explore the Data Frame

100%

Interactive Exercises on Explore the Data Frame

</>

Have a look at your data set

✓ 100 xp

</>

Have a look at the structure

✓ 100 xp

</>

Creating a data frame

✓ 100 xp

</>

Creating a data frame (2)

✓ 100 xp

</>

Rename the data frame columns

✓ 100 xp

</>

Rule the world!

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

13

Subset, extend and sort your data frame

100%

Interactive Exercises on Subset, extend and sort your data frame

</>

Selection of data frame elements

✓ 100 xp

</>

Selection of data frame elements (2)

✓ 100 xp

</>

Only planets with rings

✓ 100 xp

</>

Only planets with rings (2)

✓ 100 xp

</>

Only planets with rings but shorter

✓ 100 xp

</>

Add variable/column

✓ 100 xp

</>

Add observations

✓ 100 xp

</> Sorting

✓ 100 xp

</> Sorting your data frame

✓ 100 xp

</> Rule the world: part II

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

14 Basic Graphics

100%

Interactive Exercises on Basic Graphics

</> Plotting factors

✓ 100 xp

</> Plotting numerics

✓ 100 xp

</> Create a Histogram

✓ 100 xp

</> Other graphics functions

✓ 100 xp

</> How does your salary compare?

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

15 Customizing Plots

100%

Interactive Exercises on Customizing your plots

</> Title and axis labels

✓ 100 xp

</> Colors and shapes

✓ 100 xp

</> Customize Everything!

✓ 100 xp

</> Customizing Histograms

✓ 100 xp

</> Does work experience influence your salary?

✓ 200 xp

HIDE CHAPTER DETAILS ^

✓ Completed

Multiple plots

100%

Interactive Exercises on Multiple plots

Multiple plots with par()

✓ 100 xp

Complex layouts!

✓ 100 xp

Complex layouts with customized plots

✓ 100 xp

Plot a linear regression

✓ 100 xp

Customize your linear regression plot

✓ 100 xp

Multiple plots with different layers

✓ 100 xp

HIDE CHAPTER DETAILS ^

✓ Completed

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