Goskills

R Programming for Beginners

GoSkills online course syllabus

Skill level
Beginner

Lessons
18

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Pre-requisites
No prior experience needed

Video duration
51m

Estimated study time
51m 13s

Instructor
Fro Carducci

Introduction

1 The power of R
R is a programing language and environment used for statistical computing and graphics.

Hello World R

2 Install R and Rstudio
First things first - in order to program in R you will need to download and install it.

3 Rstudio 101
R Studio is a great multi-pane window tool to help organize and display your code.

Programming Basics

4 Types of variables
Variables are the core to programming.

5 Using vectors
Vectors are data structures with in R. After this lesson, you'll be able to identify and use the different types of vectors.

6 Using matrices
Matrices are data structures with in R. After this lesson, you'll be able to identify and use the different types of matrices

7 Using operators

Operators are used to do mathematical actions with in R. After this lesson, you'll be able to identify and use the different types of operators.

8 Using "if" blocks

"If" blocks are one of the methods for conditionally rendering a chunk of code in R.

9 Using "while" loops

"while" loops are a method for repeating an action in R.

10 Using "for" loops

"for" loops are another method for repeating an action in R. After this lesson, you'll be able to identify and use the different types of "for" loops.

11 Creating and using functions

Putting it all together now, functions are small grouped pieces of code that use data, operators and or loops to result in some action in R.

Data Data Data

12 Importing data 101

There are two ways to work with data in R.

13 Data manipulation

Manipulating data is necessary for most forms of programing.

14 Data visualization

Visualizing data is a helpful tool to understand what your data is showing and how to explain it.

CRAN Libraries

15 CRAN libraries

Libraries are downloadable pages that have a collection of functions and data that can be used to assist in your coding efforts in R.

16 Example project

At this point, hopefully you're feeling more familiar with the basics of R Programming.

Additional Resources

17 Helpful resources

There is always more to learn in the ever-evolving world of programming.

Conclusion

18 Final notes

Thank you for watching this course!

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