Explore

What do you want to learn?

Yunpeng Cheng

Data Analysis with R Programming
Google

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Data Analysis with R Programming

Week 2

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Programming using RStudio

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Using R can help you complete your analysis efficiently and effectively. In this part of the course, you'll explore the fundamental concepts associated with R. You'll learn about functions and variables for calculations and other programming. In addition, you'll discover R packages, which are collections of R functions, code and sample data that you'll use in RStudio.

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Learning Objectives

- Describe the contents and components of the tidyverse package for R
- Describe the concept of packages in R programming language
- Describe the use of operators to complete calculations in the R programming language
- Describe the fundamental concepts associated with programming in R including functions, variables, data types, pipes, and vectors
- Install and load the tidyverse package
- Use the browseVignettes("packagename") function to read through vignettes of a loaded package
- Locate resources for help using R

⌃ Less

Understand basic programming concepts

▶ **Video:** Programming using RStudio 2 min   Resume

▶ **Video:** Programming fundamentals 8 min

▢ **Reading:** Vectors and lists in R 10 min

▢ **Reading:** Dates and times in R 10 min

▢ **Reading:** Other common data structures 10 min

▤ **Practice Quiz:** Test your knowledge on programming concepts 4 questions

Explore coding in R

▶ **Video:** Operators and calculations 5 min

▢ **Reading:** Logical operators and conditional statements 10 min

▢ **Reading:** Guide: Keeping your code readable 10 min

▤ **Practice Quiz:** Hands-On Activity: R sandbox 1 question

▢ **Discussion Prompt:** Queries and programming 10 min

▤ **Practice Quiz:** Test your knowledge on coding in R 3 questions

Learning about R packages

▶ **Video:** The gift that keeps on giving 4 min

Reading: Available R packages 10 min

Video: Welcome to the tidyverse 6 min

Practice Quiz: Hands-On Activity: Installing and loading tidyverse 1 question

Practice Quiz: Test your knowledge on R packages 3 questions

Explore the tidyverse

Video: More on the tidyverse 5 min

Video: Working with pipes 9 min

Reading: R resources for more help 10 min

Video: Connor: Coding tips 5 min

Practice Quiz: Test your knowledge on the tidyverse 3 questions

Weekly challenge 2

Reading: Glossary: Terms and definitions 5 min

Quiz: Weekly challenge 2 8 questions Due Jul 26, 1:59 AM CDT