

Data Analysis with R
Programming
Google

Overview

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Data Analysis with R Programming

Week 3

Discuss the topic here.

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Working with data in R



Google Career Certificates

The R programming language was designed to work with data at all stages of the data analysis process. In this part of the course, you'll examine how R can help you structure, organize, and clean your data using functions and other processes. You'll learn about data frames and how to work with them in R. You'll also revisit the issue of data bias and how R can help.

Less

Learning Objectives

- Discuss how R functions may be used to address issues of bias and relationship between data variables
- Describe R functions that may be used to clean and organize data
- Describe functions used to work with data frames including read_csv(), data(), and datapasta()
- Discuss the difference between tibbles and tribbles
- Compare and contrast data cleaning with different tools
- Create and work with data in R

Less

Explore data and R



Video: Data in R 1 min

Resume



Video: R data frames 4 min



Video: Working with data frames 4 min



Practice Quiz: Hands-On Activity: Create your own data frame 1 question



Reading: More about tibbles 10 min



Reading: Data-import basics 10 min



Practice Quiz: Hands-On Activity: Importing and working with data 1 question



Discussion Prompt: Data in R versus SQL 10 min



Practice Quiz: Test your knowledge on R data frames 4 questions

Cleaning data



Video: Cleaning up with the basics 7 min



Reading: File-naming conventions 10 min



Reading: More on R operators 10 min



Video: Organize your data 6 min






Practice Quiz: Hands-On Activity: Cleaning data in R 1 question









Reading: Optional: Manually create a data frame 10 min





Video: Transforming data 6 min

-  **Video:** Transforming data 5 min
-  **Reading:** Wide to long with tidyr 10 min
-  **Practice Quiz:** Test your knowledge on cleaning data 3 questions

Take a closer look at the data

-  **Video:** Same data, different outcome 5 min
-  **Video:** The bias function 3 min
-  **Reading:** Working with biased data 10 min
-  **Practice Quiz:** Hands-On Activity: Changing your data 1 question
-  **Discussion Prompt:** Compare data cleaning on different platforms 10 min
-  **Practice Quiz:** Test your knowledge on R functions 3 questions

Weekly challenge 3

-  **Reading:** Glossary: Terms and definitions 5 min
-  **Quiz:** Weekly challenge 3 10 questions Due Aug 2, 1:59 AM CDT

