Data Analysis with R Programming
Google

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Data Analysis with R Programming

Week 4

Discuss the topic here.

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More about visualizations, aesthetics, and annotations

G Google Career Certificates

R is a tool well-suited for creating detailed visualizations. In this part of the course, you'll learn how to use R to generate and troubleshoot visualizations. You'll also explore the features of R and RStudio that will help you with the aesthetics of your visualizations and for annotating and saving them.

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Learning Objectives

- Identify the aesthetics features available in R with reference to size, shape, color, and plots
- Explain some common problems associated with visualizations in R
- Use of ggplot() to generate basic visualizations
- Describe the options for generating visualizations in R
- Demonstrate an understanding of RStudio functionality for saving visualizations
- Create a plot in ggplot2
- Explain the purpose and basic logic of the ggplot2 package

⌃ Less

Create data visualizations in R

▶ **Video:** Visualizations in R 2 min   [Resume]

▶ **Video:** Visualization basics in R and tidyverse 6 min

▤ **Practice Quiz:** Hands-On Activity: Visualizing data with ggplot2 1 question

▶ **Video:** Getting started with ggplot() 10 min

▥ **Reading:** Common problems when visualizing in R 10 min

▤ **Practice Quiz:** Hands-On Activity: Using ggplot 1 question

▢ **Discussion Prompt:** Visualizations in Tableau versus R 10 min

▶ **Video:** Joseph: Career path to people analytics 3 min

▤ **Practice Quiz:** Test your knowledge on data visualizations in R 4 questions

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Explore aesthetics in analysis

▶ **Video:** Enhancing visualizations in R 8 min

▥ **Reading:** Aesthetic attributes 10 min

▶ **Video:** Doing more with ggplot 8 min

▥ **Reading:** Smoothing 10 min

▶ **Video:** Aesthetics and facets 5 min

▤ **Practice Quiz:** Hands-On Activity: Aesthetics and visualizations 1 question

Reading: Filtering and plots 10 min

Practice Quiz: Hands-On Activity: Filters and plots 1 question

Practice Quiz: Test your knowledge on aesthetics in analysis 4 questions

Annotate and save visualizations

Video: Annotation layer 6 min

Reading: Drawing arrows and shapes in R 10 min

Video: Saving your visualizations 5 min

Reading: Saving images without ggsave() 10 min

Practice Quiz: Hands-On Activity: Annotating and saving visualizations 1 question

Discussion Prompt: Create your profile on the Coursera job platform 10 min

Practice Quiz: Test your knowledge on annotating and saving visualizations 4 questions

Weekly challenge 4

Reading: Glossary: Terms and definitions 5 min

Quiz: Weekly challenge 4 10 questions Due Aug 9, 1:59 AM CDT