



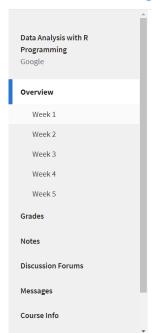


What do you want to learn?









## Week 1

Data Analysis with R Programming

#### Week 1

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### Programming and data analytics



Google Career Certificates

R is a programming language that can help you in your data analysis process. In this part of the course, you'll learn about R and RStudio, the environment you'll use to work in R. You'll explore the benefits of using R and RStudio as well as the components of RStudio that will help you get started.

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### **Learning Objectives**

- $\bullet \ \ \text{Compare and contrast the R programming environment and the RS tudio programming environment}\\$
- · Describe the RStudio programming environment including its components and benefits
- · Describe the R programming language and its programming environment
- Describe programming languages and appropriate use including examples
- · Download and install R assets to a computer
- Open R and execute a command
- Differentiate between the R Console and R programming environments
- Execute operations in R using mathematical operators such as +, -, \*, and /
- Download and use RStudio Desktop
- Demonstrate how to complete basic tasks in R

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# The exciting world of programming

▶ Video: Introduction to the exciting world of programming 6 min

- Reading: Course syllabus 10 min
- (4) Refresher: Your data analytics certificate roadmap 15 min
- Reading: The R-versus-Python debate 10 min
- Reading: Learning Log: Get ready to explore R 20 min
- ▶ Video: Fun with R 5 min
- ▶ Video: Carrie: Getting started with R 3 min
- Discussion Prompt: Meet and greet 10 min

### Programming as a data analyst

- **▶ Video:** Programming languages 5 min
- Reading: Ways to learn about programming 10 min
- Reading: From spreadsheets to SQL to R 10 min
- Practice Quiz: Self-Reflection: Ask a question 1 question
- ▶ Video: Introduction to R 6 min
- Practice Quiz: Optional Hands-On Activity: Downloading and installing R 1 question

	Practice Quiz: Optional Hands-On Activity: R Console 1 question  Practice Quiz: Test your knowledge on programming languages 3 questions
Learn programming using RStudio	
•	Video: Intro to RStudio 7 min
	Practice Quiz: Hands-On Activity: Cloud access to RStudio 1 question
	Practice Quiz: Optional Hands-On Activity: Get started in RStudio Desktop 1 question
(11)	Reading: When to use RStudio 10 min
(P)	Discussion Prompt: R&RStudio! 10 min
(11)	Reading: Connecting with other analysts in the R community 10 min
	<b>Practice Quiz:</b> Test your knowledge on programming with RStudio 3 questions
Weekly challenge 1	
(11)	Reading: Glossary: Terms and definitions 5 min
	Ouiz: Weekly challenge 1 8 questions Due Iul 19 1:59 AM CDT