Week 1

Share Data Through the Art of Visualization

Week 1

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Visualizing data

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Data visualization is the graphical representation of data. In this part of the course, you'll be introduced to key concepts, including accessibility, design thinking, and other factors that play a role in visualizing the data in your analysis.

Learning Objectives

- Explain the key concepts involved in design thinking as they relate to data visualization
- Describe the use of data visualizations to talk about data and the results of data analysis
- Discuss accessibility issues associated with data visualization
- Explain the importance of data visualization to data analysts
- Describe the key concepts involved in data visualization

∧ **Less**

Communicating your data insights

▶ **Video:** Introduction to communicating your data insights 3 min   **Resume**

▦ **Reading:** Course syllabus 10 min

▦ **Reading:** Learning Log: Reflect on data visualization 20 min

▶ **Video:** Kevin: The power's in the data viz 2 min

💬 **Discussion Prompt:** Meet and greet 10 min

</> Refresher: Your data analytics certificate roadmap 15 min

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Understand data visualization

▶ **Video:** Why data visualization matters 6 min

▦ **Reading:** Effective data visualizations 10 min

▶ **Video:** Connecting images with data 6 min

▦ **Reading:** The beauty of visualizing 10 min

▶ **Video:** A recipe for a powerful visualization 5 min

▦ **Reading:** Correlation and causation 10 min

▶ **Video:** Dynamic visualizations 3 min

▦ **Reading:** The wonderful world of visualizations 10 min

▦ **Reading:** Data grows on decision trees 10 min

▤ **Practice Quiz:** Self-Reflection: Choosing your visualization 1 question

▤ **Practice Quiz:** Test your knowledge on data visualizations 3 questions

Design data visualizations

▶ **Video:** Elements of art 4 min

▣ **Reading:** Principles of design 10 min

▶ **Video:** Data visualization impact 5 min

▣ **Reading:** Data is beautiful 10 min

▶ **Video:** Design thinking and visualizations 6 min

▣ **Reading:** Design thinking for visualization improvement 10 min

▣ **Discussion Prompt:** Identify data visualizations in your life 10 min

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

Explore visualization considerations

▶ **Video:** Headlines, subtitles, and labels 2 min

▣ **Reading:** Pro tips for highlighting key information 10 min

▶ **Video:** Accessible visualizations 4 min

▶ **Video:** Andrew: Making data accessible 2 min

▣ **Reading:** Designing a chart in 60 minutes 10 min

▤ **Practice Quiz:** Hands-On Activity: Making your own visualization 2 questions

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

Weekly challenge 1

▣ **Reading:** Glossary: Terms and definitions 5 min

▤ **Quiz:** Weekly challenge 1 8 questions Due Jul 12, 1:59 AM CDT