

Quiz - Data Visualization

Started on 11/13/2025 at 6:39 PM - Ended on 11/13/2025 at 6:50 PM

Progression: Managed by the host

Question 1

Question

Which statement best captures the course's working definition of "visualization"?

Answers (80)

- a. Turning numbers into art (1% - 1)
- b. Animating charts to increase attention (2% - 2)
- c. Using colors to decorate reports (0% - 0)
- d. Encoding data with visual features to convey useful information (94% - 77) - Correct answer

Question 2

Question

Which is NOT a main motivation for visualization mentioned in the slides?

Answers (78)

- a. Providing context via comparisons (4% - 3)
- b. High information density (9% - 7)
- c. Better information retrieval (4% - 3)
- d. Concealing data quality problems (79% - 65) - Correct answer

Question 3

Question

Which sentence best reflects the “information context” point from the slides?

Answers (77)

- a. Context reduces comprehension (5% - 4)
- b. A single number is meaningful by itself (10% - 8)
- c. A single number gains meaning via comparison (79% - 65) - Correct answer
- d. Numbers should be shown without labels (0% - 0)

Question 4

Question

Who is credited with pioneering modern statistical graphics in 1786's The Commercial and Political Atlas?

Answers (75)

- a. Étienne-Jules Marey (11% - 9)
- b. Charles Minard (9% - 7)
- c. John Tukey (5% - 4)
- d. William Playfair (67% - 55) - Correct answer

Question 5

Question

Minard's famous graphic on Napoleon's Russian campaign visualized troop size and geography. Which other variable was also encoded?

Answers (70)

- a. Humidity (2% - 2)
- b. Wind speed (0% - 0)
- c. Altitude (2% - 2)
- d. Temperature (80% - 66) - Correct answer

Question 6

Question

Which title is associated with Edward Tufte?

Answers (69)

- a. The Visual Display of Quantitative Information (52% - 43) - Correct answer
- b. Exploratory Data Analysis (7% - 6)
- c. La Méthode graphique (5% - 4)
- d. The Elements of Graphing Data (20% - 16)

Question 7

Question

Card–Mackinlay–Shneiderman define information visualization as using computer-supported, interactive visual representations of abstract data to...

Answers (72)

- a. Replace statistics (2% - 2)
- b. Reduce dataset size (5% - 4)
- c. Amplify cognition (78% - 64) - Correct answer
- d. Entertain audiences (2% - 2)

Question 8

Question

Which is NOT a primary strength of graphs noted in the slides?

Answers (69)

- a. Revealing overall patterns (5% - 4)
- b. Showing trends over time (1% - 1)
- c. Highlighting exceptions (6% - 5)
- d. Pinpointing exact values without effort (72% - 59) - Correct answer

Question 9

Question

Which design choice IMPROVES bar-chart readability?

Answers (71)

- a. 3D bars (2% - 2)
- b. Light/minimal gridlines (49% - 40) - Correct answer
- c. Heavy gridlines (5% - 4)
- d. Vertical axis labels (30% - 25)

Question 10

Question

The slides briefly call out a “Rainbow effect.” What is being critiqued?

Answers (67)

- a. Lack of labels (1% - 1)
- b. Overuse of grey tones (0% - 0)
- c. Using a spectral colormap that harms readability (67% - 55) - Correct answer
- d. Using categorical colors for sequences (13% - 11)