

Quiz - Visual Perception

Started on 11/20/2025 at 6:46 PM - Ended on 11/22/2025 at 11:47 AM

Progression: Managed by the host

Question 1

Question

Where does pre-attentive processing happen in the simplified memory model?

Answers (53)

- a. Procedural memory (9% - 5)
- b. Short-term/working memory (36% - 20)
- c. Long-term memory (0% - 0)
- d. Iconic (sensory) memory (50% - 28) - Correct answer

Question 2

Question

You must encode one quantitative measure. Which is the safest primary channel to support magnitude judgments?

Answers (55)

- a. Area (11% - 6)
- b. Volume (5% - 3)
- c. Shape (4% - 2)
- d. Length (79% - 44) - Correct answer

Question 3

Question

Weber's law implies that comparisons are easier when:

Answers (52)

- a. Relative (percentage) differences are large (73% - 41) - Correct answer
- b. You use rainbow palettes (0% - 0)
- c. You mix multiple encodings (0% - 0)
- d. Absolute differences are large, regardless of baseline (20% - 11)

Question 4

Question

Stevens's law suggests which ordering of reliability for magnitude judgments?

Answers (53)

- a. Volume > Area > Length (4% - 2)
- b. Length > Area > Volume (89% - 50) - Correct answer
- c. Area > Length > Volume (2% - 1)
- d. Area > Volume > Length (0% - 0)

Question 5

Question

For an ordinal variable mapped to color, a good rule of thumb is:

Answers (51)

- a. Vary saturation and/or intensity progressively (73% - 41) - Correct answer

- b. Use the two most saturated colors only (11% - 6)
- c. Vary hue only (rainbow) (5% - 3)
- d. Randomly assign colors (2% - 1)

Question 6

Question

A chart places identical scales for two series but on non-aligned axes (same units, different baselines). What happens?

Answers (52)

- a. Comparison is as easy as a shared axis (0% - 0)
- b. Comparison gets harder (91% - 51) - Correct answer
- c. Comparison improves for small differences (0% - 0)
- d. No effect on perception (2% - 1)

Question 7

Question

To separate groups without adding a legend, what often helps most?

Answers (50)

- a. A textured background (0% - 0)
- b. 3D depth (2% - 1)
- c. Direct labeling near the data (86% - 48) - Correct answer
- d. Extra gridlines (2% - 1)

Question 8

Question

Which classroom critique best diagnoses chartjunk?

Answers (48)

- a. "The y-axis starts at zero." (5% - 3)
- b. "The font is sans-serif." (2% - 1)
- c. "These decorations don't encode any data." (75% - 42) - Correct answer
- d. "Bars are sorted descending." (4% - 2)

Question 9

Question

Given Western reading conventions, placing more important info at:

Answers (48)

- a. Anywhere: position doesn't matter (0% - 0)
- b. Center reduces bias (5% - 3)
- c. Bottom-right emphasizes priority (5% - 3)
- d. Top-left suggests earlier/important (75% - 42) - Correct answer

Question 10

Question

To improve detection and comparison accuracy between two items:

Answers (47)

a. Push them far apart (7% - 4)

b. Place them near each other and increase contrast (73% - 41) - Correct answer

c. Encode with volume (0% - 0)

d. Use gradients on the background (4% - 2)