

Visualization

– Perception (Questions)

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Possible Questions

- State three different human memory types

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 1. Sensory memory (*iconic memory*)
 2. Short-term memory
 3. Long-term memory

Possible Questions

- What are the properties of the short term memory?

Possible Questions

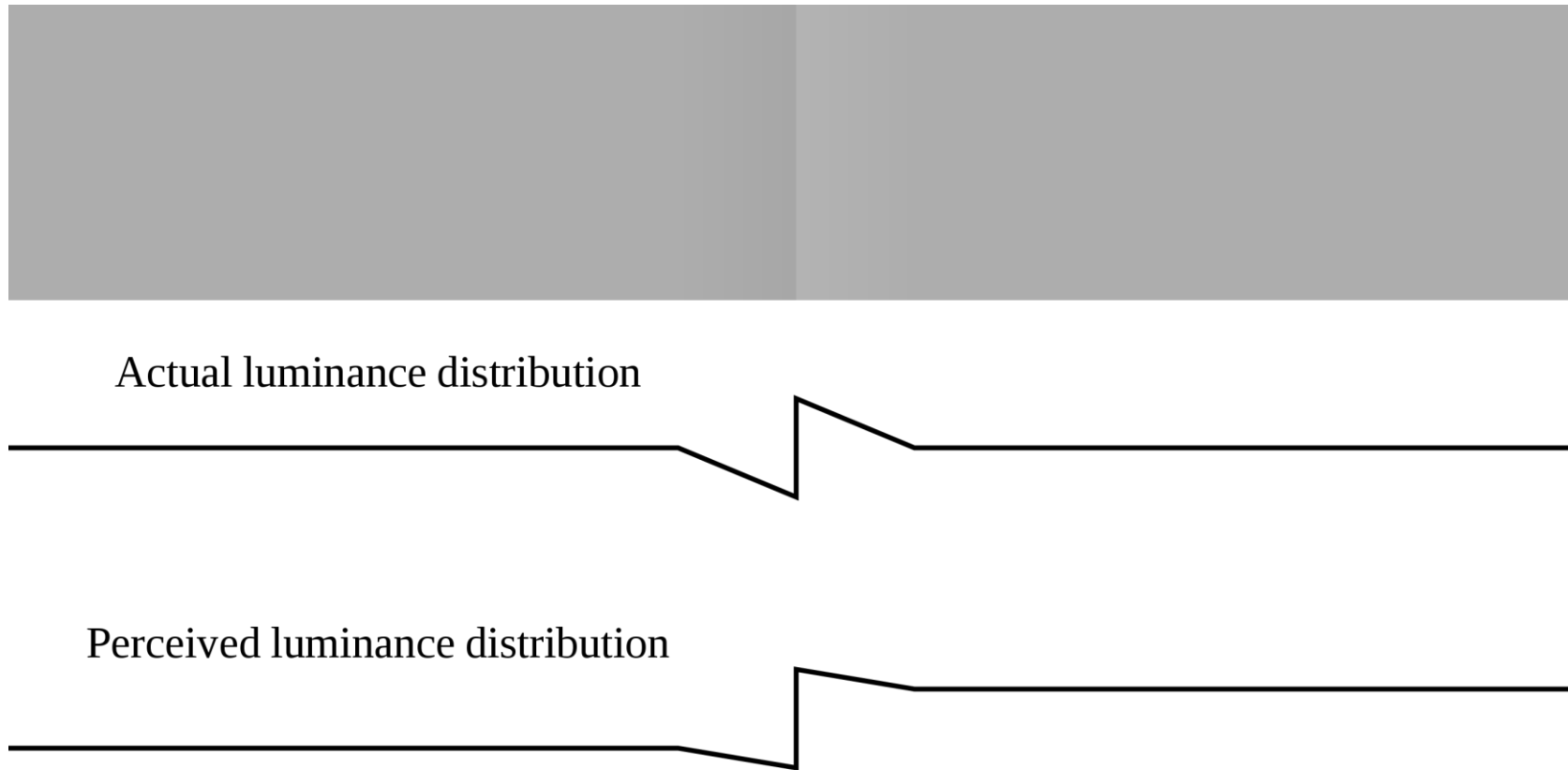
- What are the properties of the short term memory?
- Properties:
 - Limited storage capacity,
 - Is conscious,
 - Involves attentive process of perception

Possible Questions

- What is the Craik O'Brien Cornsweet Illusion?

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Possible Questions

- What is the Weber-Fechner Law?

Possible Questions

- What is the Weber-Fechner Law?
- Psychophysical relationship in sensory physiology
- Linear increase in the (psychically) subjectively perceived strength of sensory impressions corresponds to the logarithm of the increase in the (physically) objectively measurable intensity of the stimulus

Possible Questions

- Name five methods to support depth perception

Possible Questions

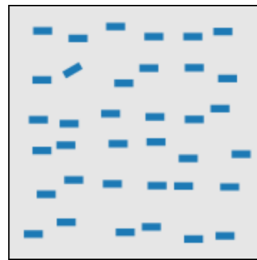
- Name five methods to support depth perception
- Shadow projection
- Illumination effects
- Stereo rendering
- Perspective
- Attenuation of distant portions (depth of field blur)
- Occlusions should be obvious

Possible Questions

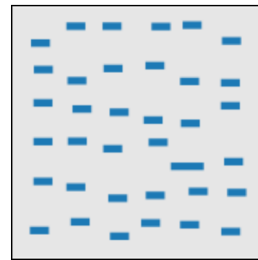
- Name six differences that are perceived preattentively

Possible Questions

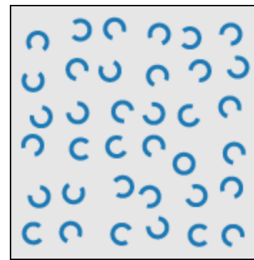
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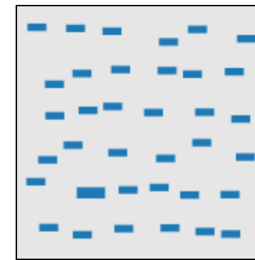
line (blob) orientation



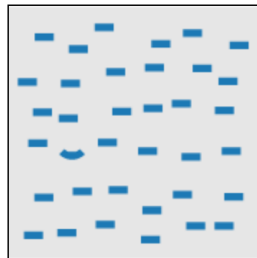
length, width



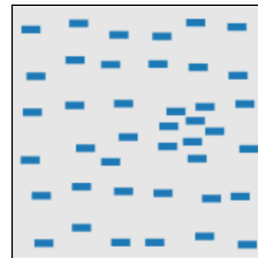
closure



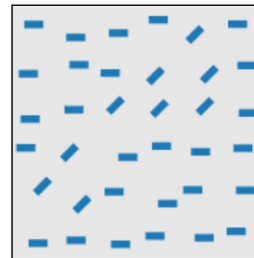
size



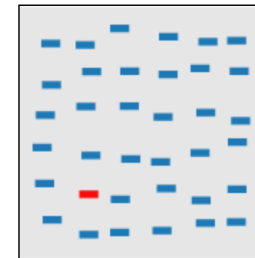
curvature



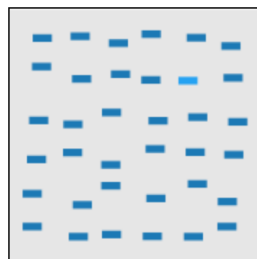
density, contrast



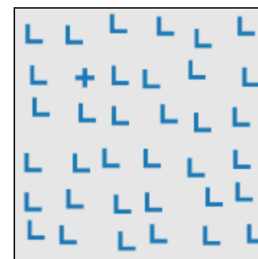
number, estimation



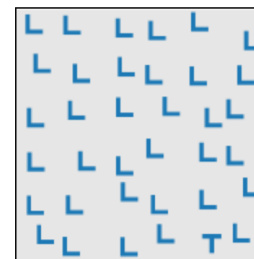
colour (hue)



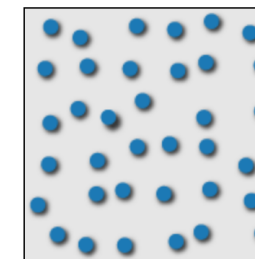
intensity, binocular lustre



intersection



terminators



3D depth cues

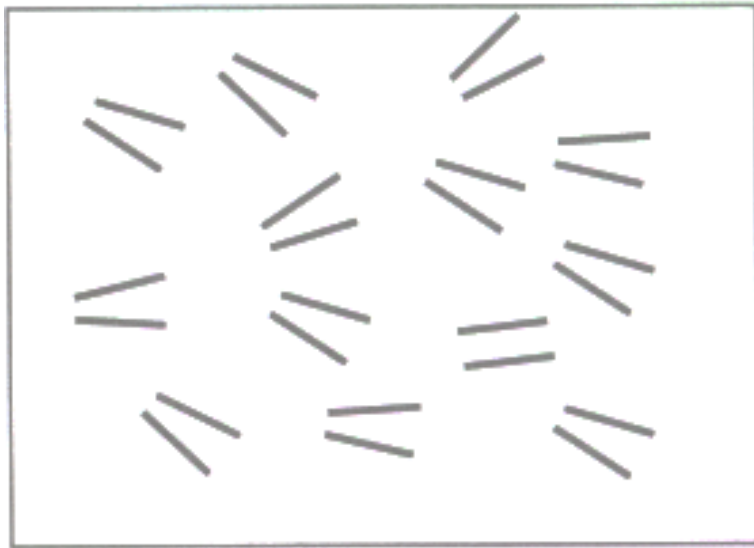
Possible Questions

- Name two differences that require attention

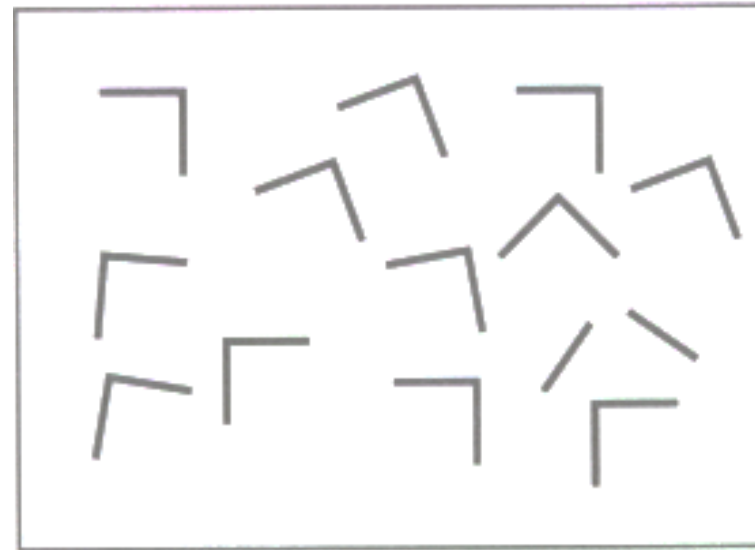
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Parallelism



Juncture



Possible Questions

- What distinguishes quantitative, nominal and ordinal data?

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Quantitative Data

- Measured/simulated values represent numbers (land prices in different regions)

Ordinal Data

- There is an order, but values are not quantitative (e.g. days of the week, month)

Nominal Data

- no order, data represent categories (e.g. car manufacturers and countries)

Possible Questions

- What is the perceivable range of light?

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380 nm – 750 nm