PSYC 1340 / VLST 2110 Perception

Recitation 2

Table of Contents

Animal Eyes

- There are many different variations of sight in the animal kingdom.
- What are some examples of adaptations that allow animals to look around while staying still?

(credit: Johannes Burge)

Flathead fish

Hippopotamus

Relative Depth

- Horopter
- Fovea
- Interocular Distance
- Disparity Angle
- Distance from eye to horopter
- Depth between objects

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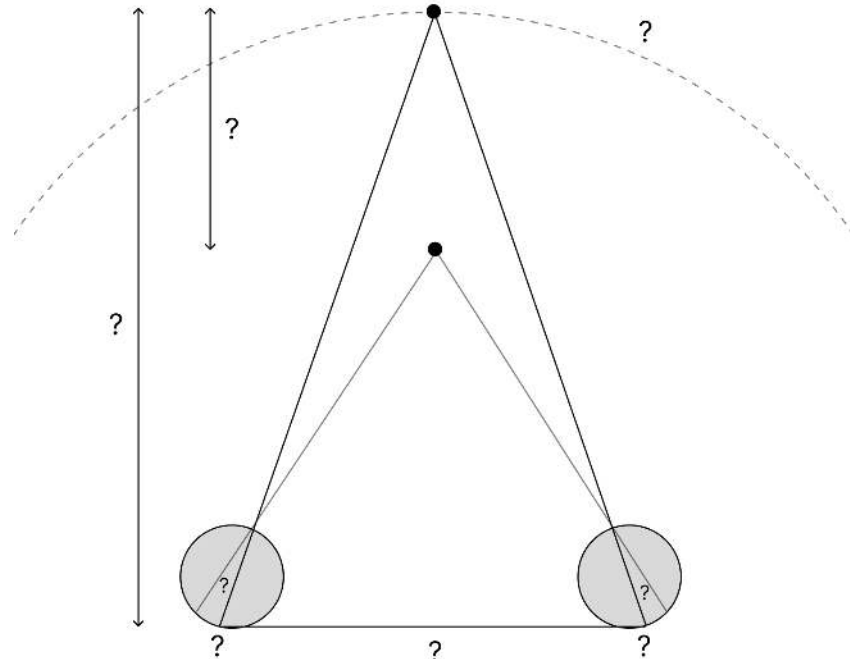
$$\Delta = -\delta * \frac{d_{hor}^2}{I}$$



Practice Problem

Assume that your interocular distance is 6cm, your distance to horopter is 800cm, and your binocular disparity looking at an object closer to you is 0.007 radians. What is the distance between the object at the horopter and the one closer?

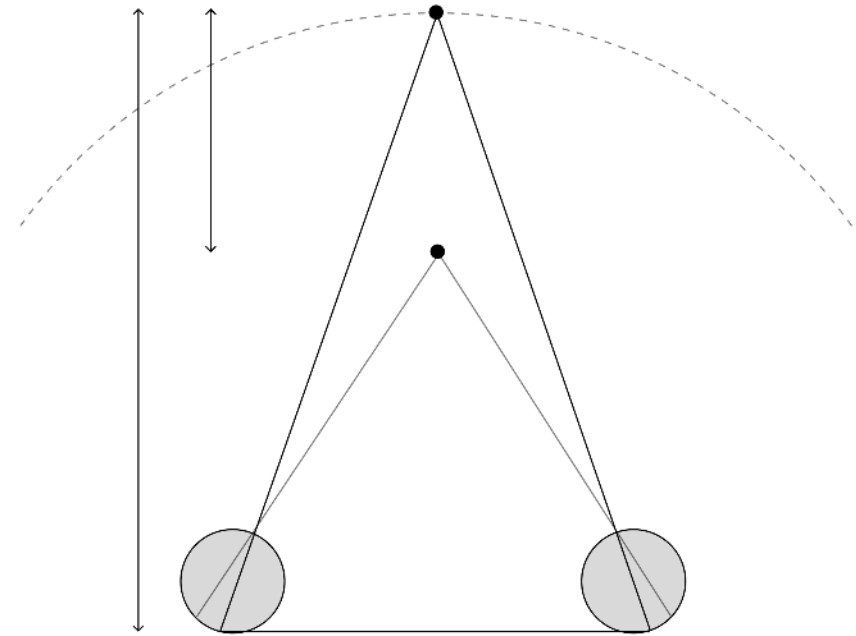
$$\Delta = -\delta * \frac{d_{hor}^2}{I}$$

Implications of disparity on Depth

What happens if you are looking at something very far away?

$$\Delta = -\delta * \frac{d_{hor}^2}{I}$$

$$\delta = -\frac{I * \Delta}{d_{hor}^2}$$



Cues to Depth

Think of some cues for depth. In which situations are these cues more helpful? In which situations are these cues less helpful?

See you next week!