

Announcements

- **MP3** is due tonight.

Final project upcoming deadlines:

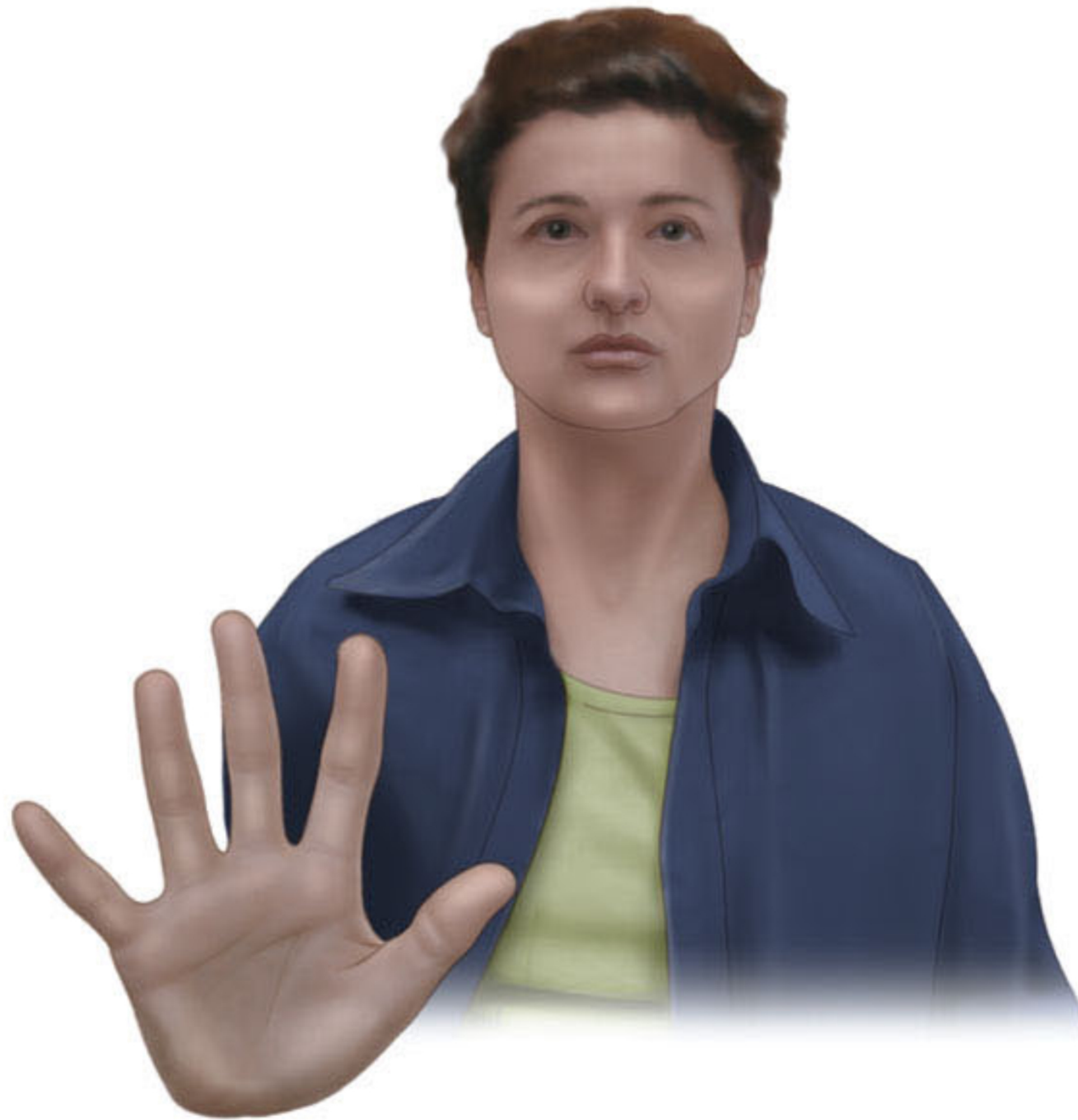
- **Oct 27**, submit two .jpg files as the answer to my piazza post:
 1. Image for abstract/title. These will be posted on the class webpage:
<https://courses.engr.illinois.edu/cs498sl/gallery.php>

You are showing the world what is possible!
<http://csctr.cs.umd.edu/>
 2. Snapshot of your first scene for the final project in Unity
- **Nov 3**, a short video of your progress.

Depth Perception: Depth Cues

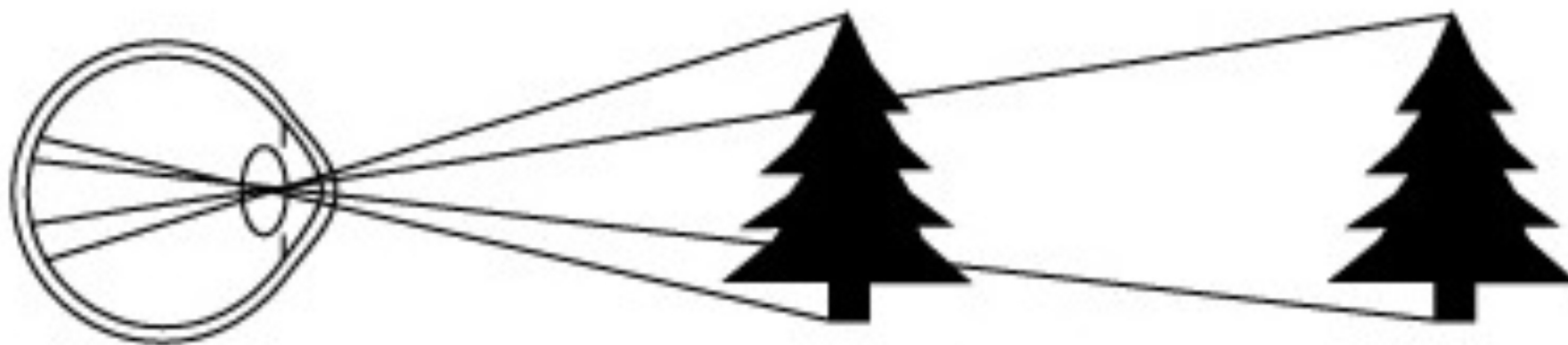
Importance to VR: If we present enough of depth cues to the brain, the computation can be done in the brain instead of expensive GPUs and CPUs!!!

Depth Perception:

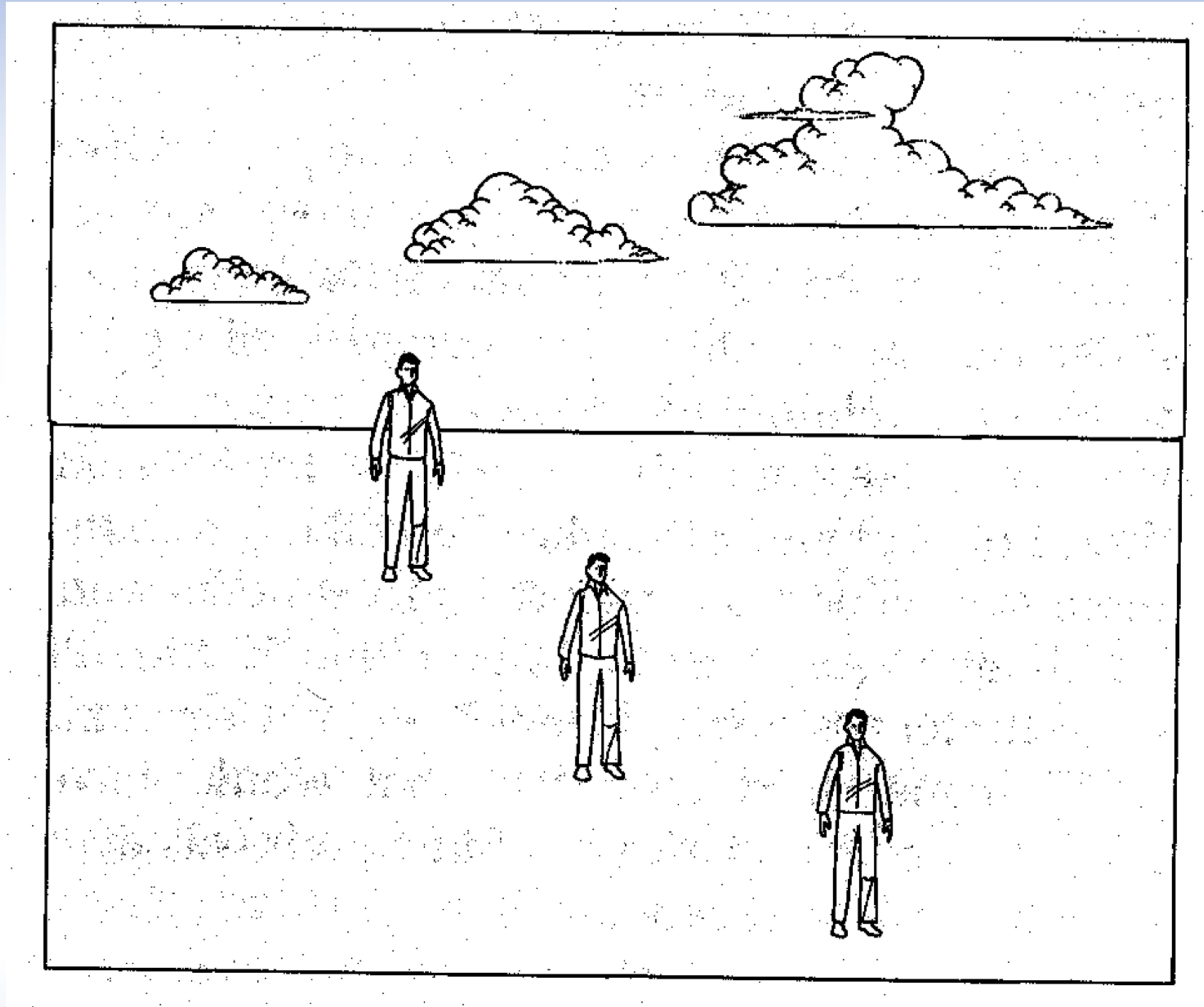


SENSATION & PERCEPTION 3e, Figure 6.12

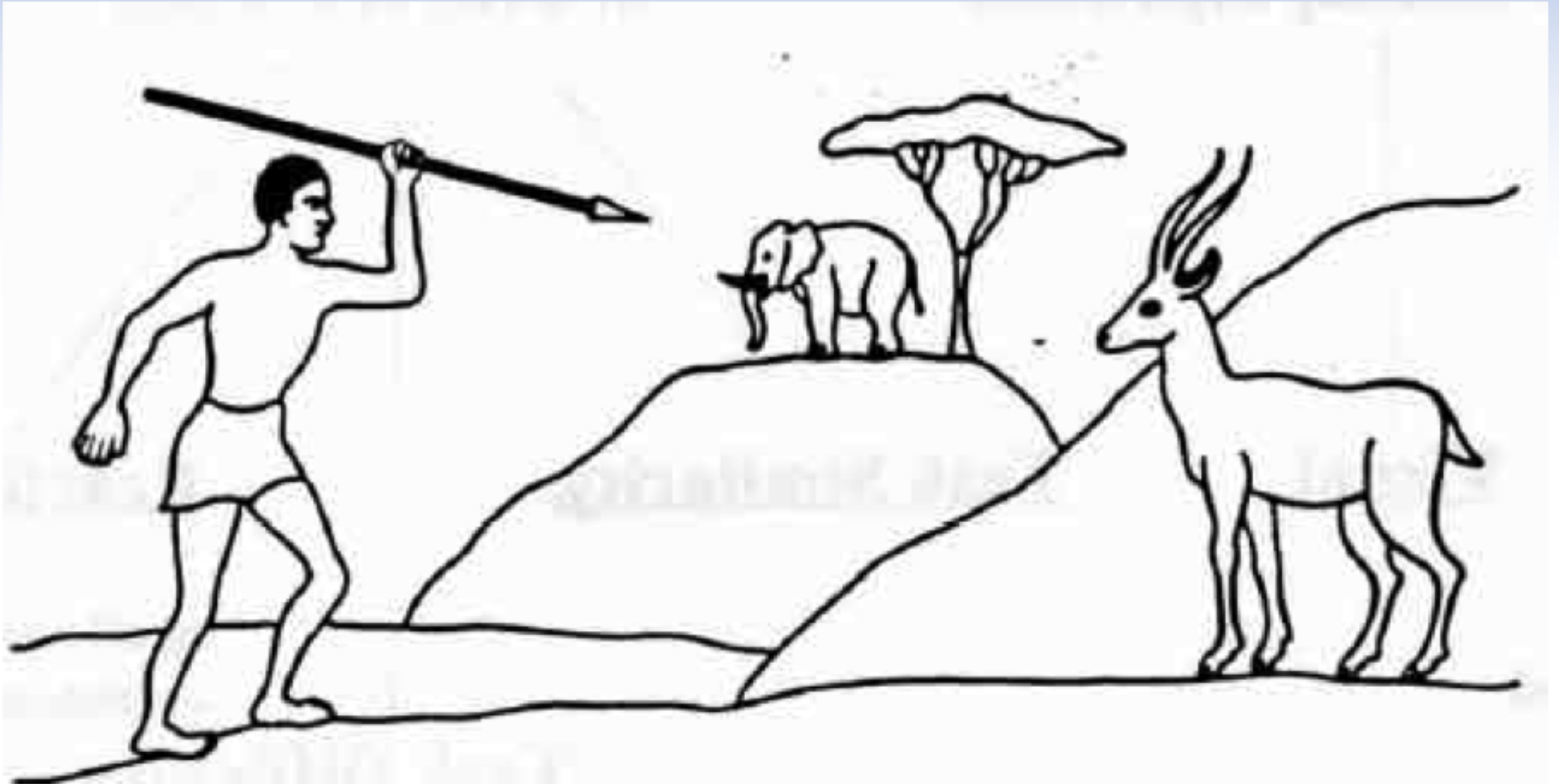
© 2012 Sinauer Associates, Inc.



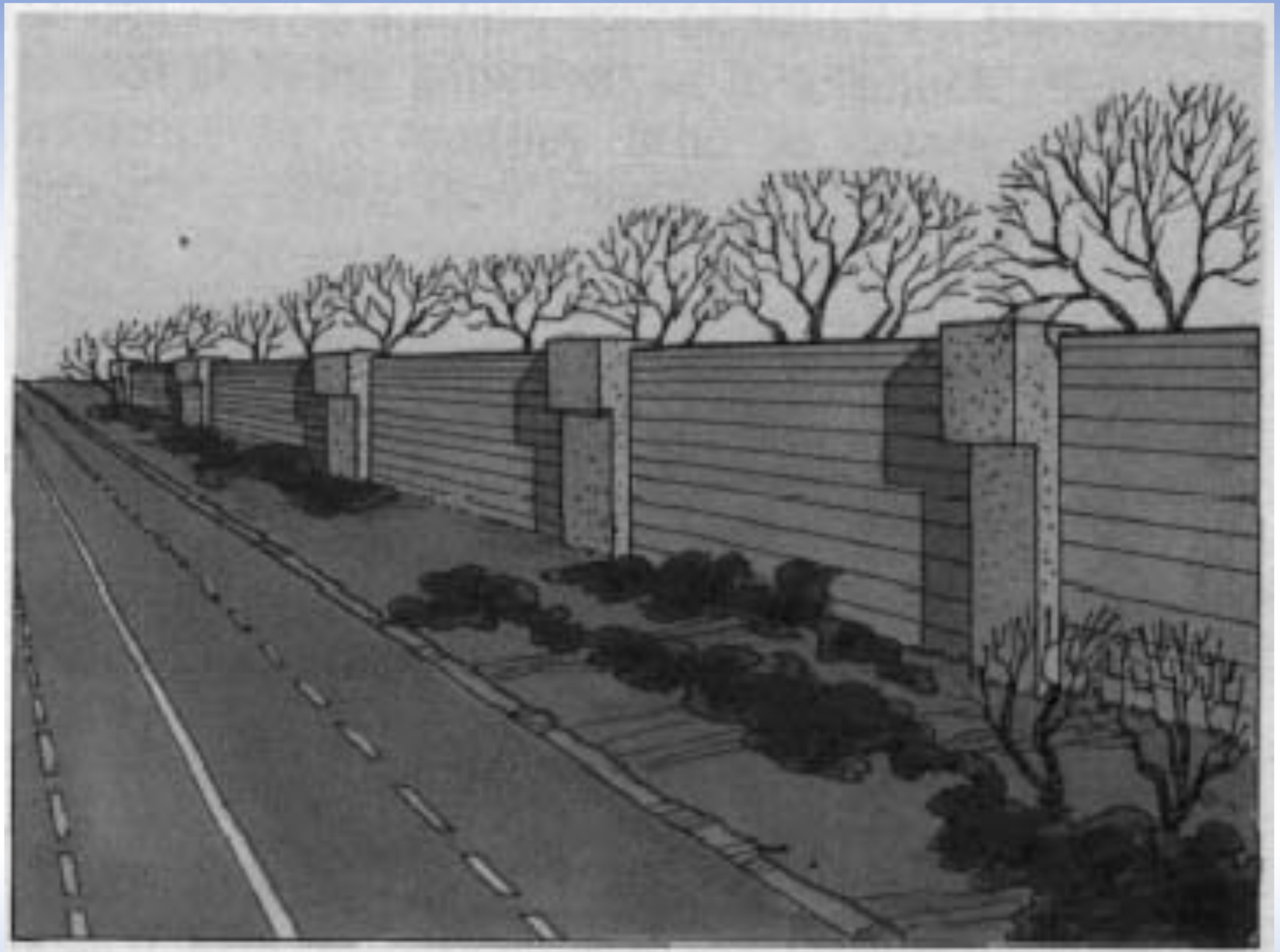
Depth Perception:



Depth Perception:



Depth Perception:

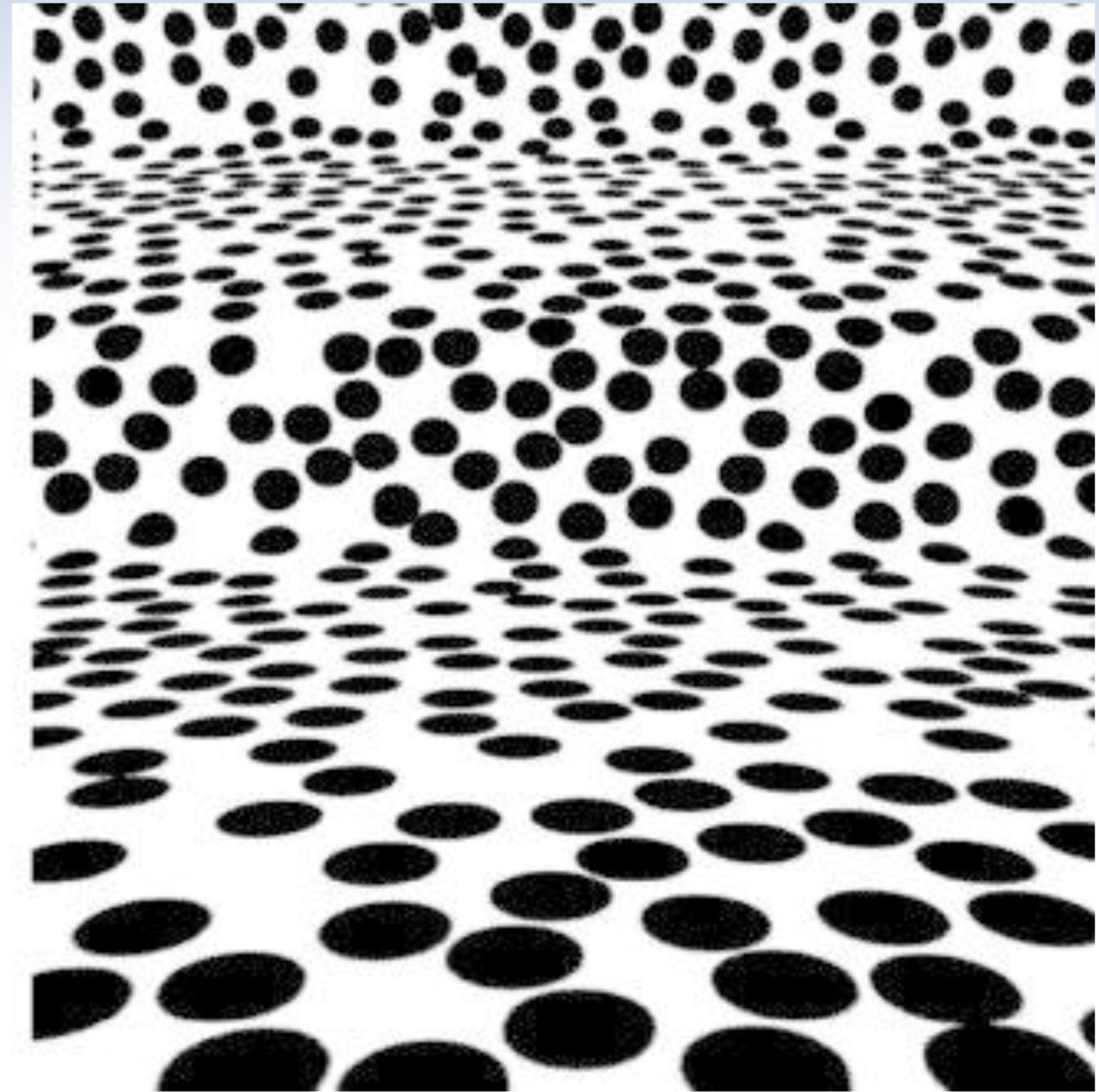


Depth Perception:



<http://psych.hanover.edu/Krantz/art/texture.html>

Depth Perception:



Depth Perception:



Have you seen VR experiences taking advantage of this? Be the first one!

Depth Perception:

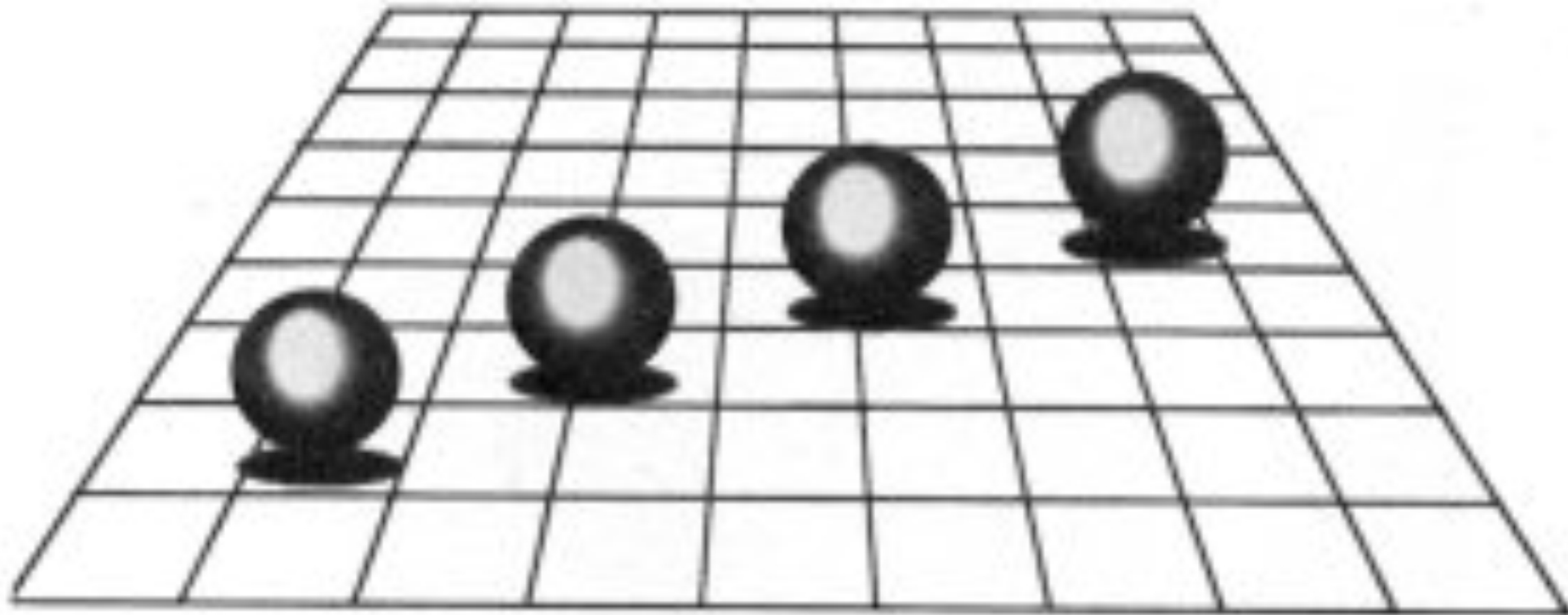


http://www.psypress.co.uk/mather/resources/swf/Demo10_1.swf

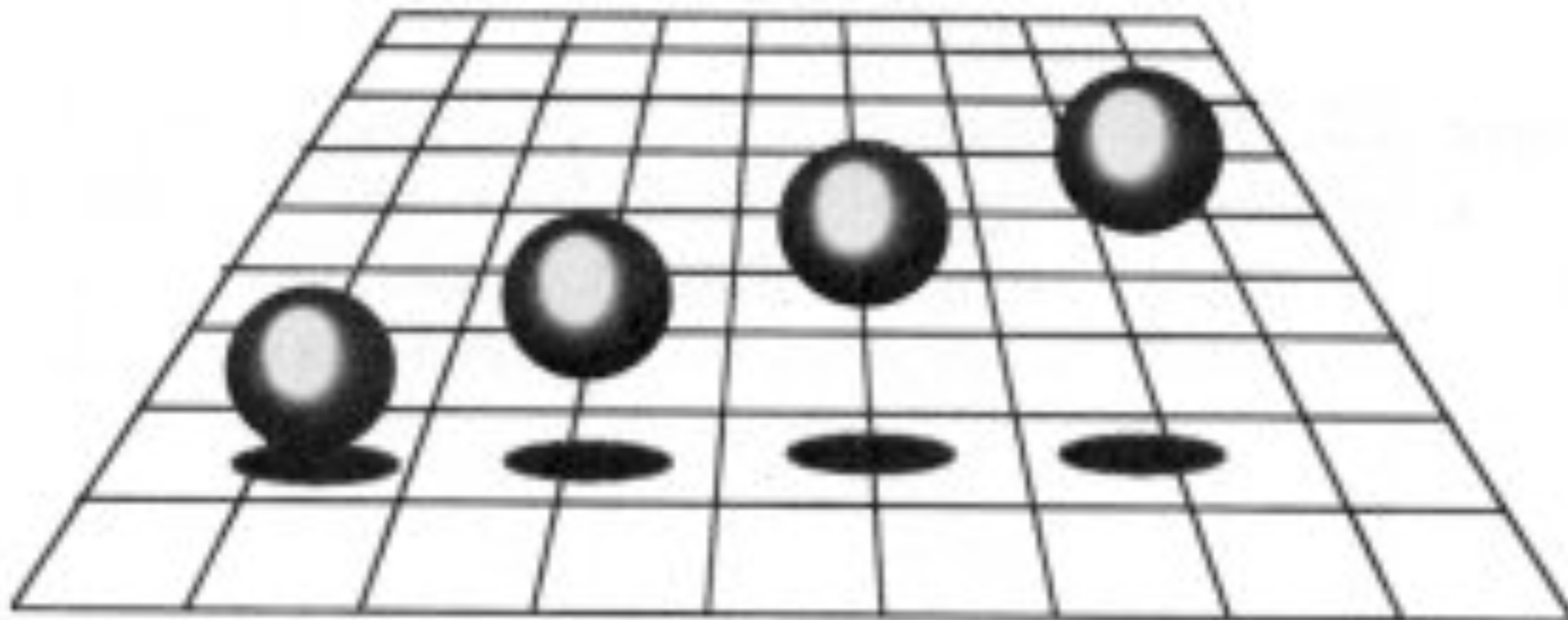
Depth Perception:



Depth Perception:



A

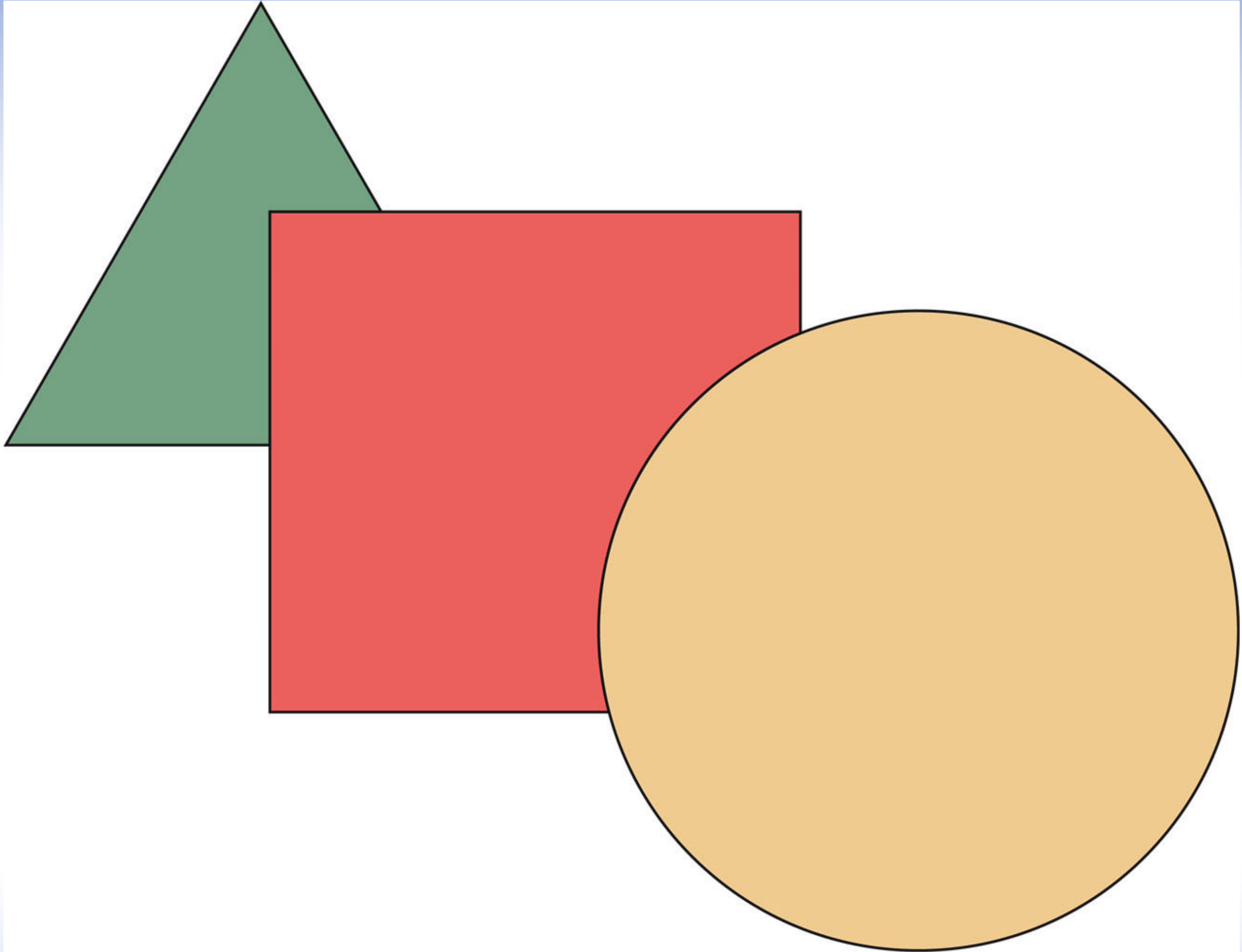


B

Depth Perception:



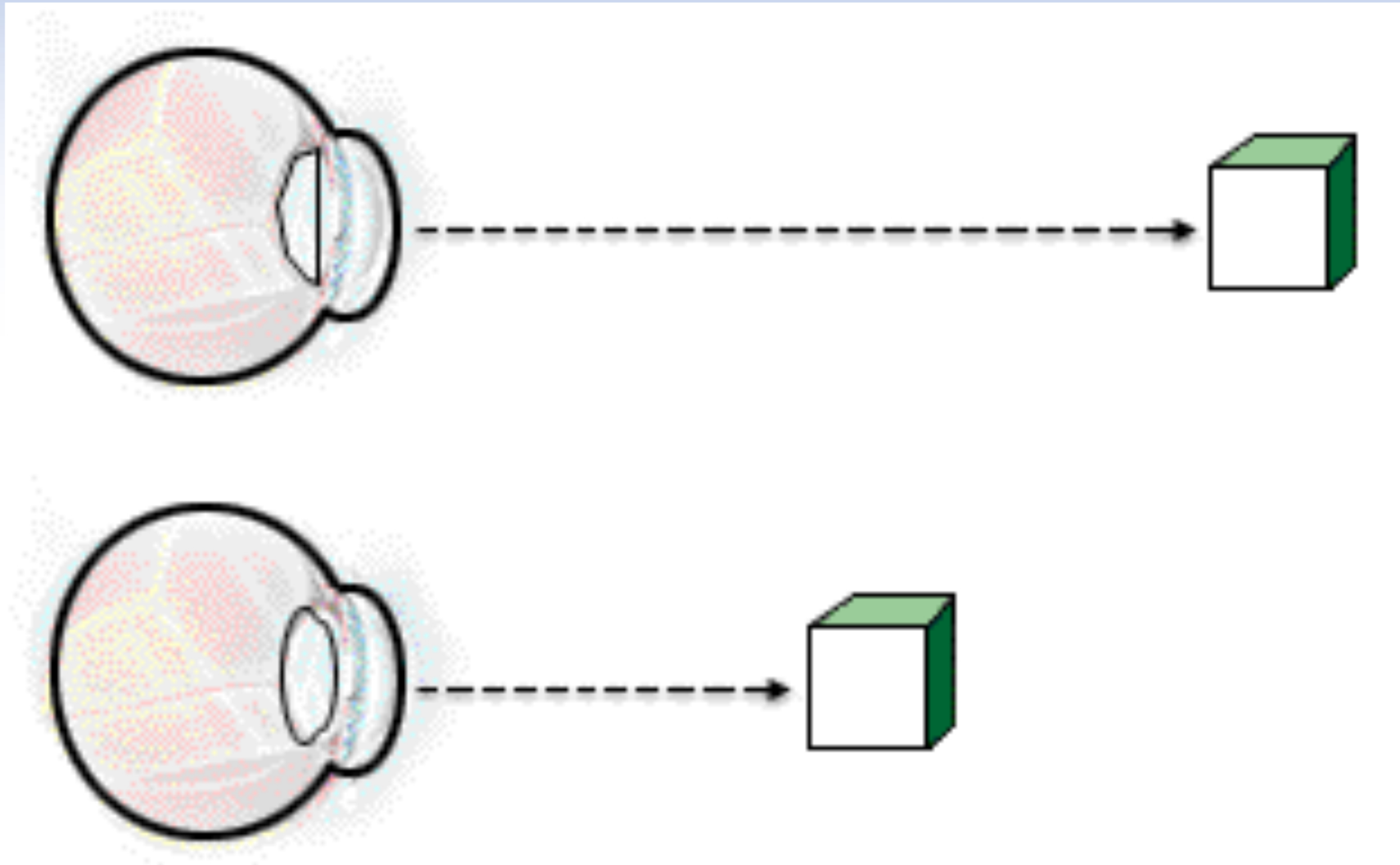
Depth Perception:



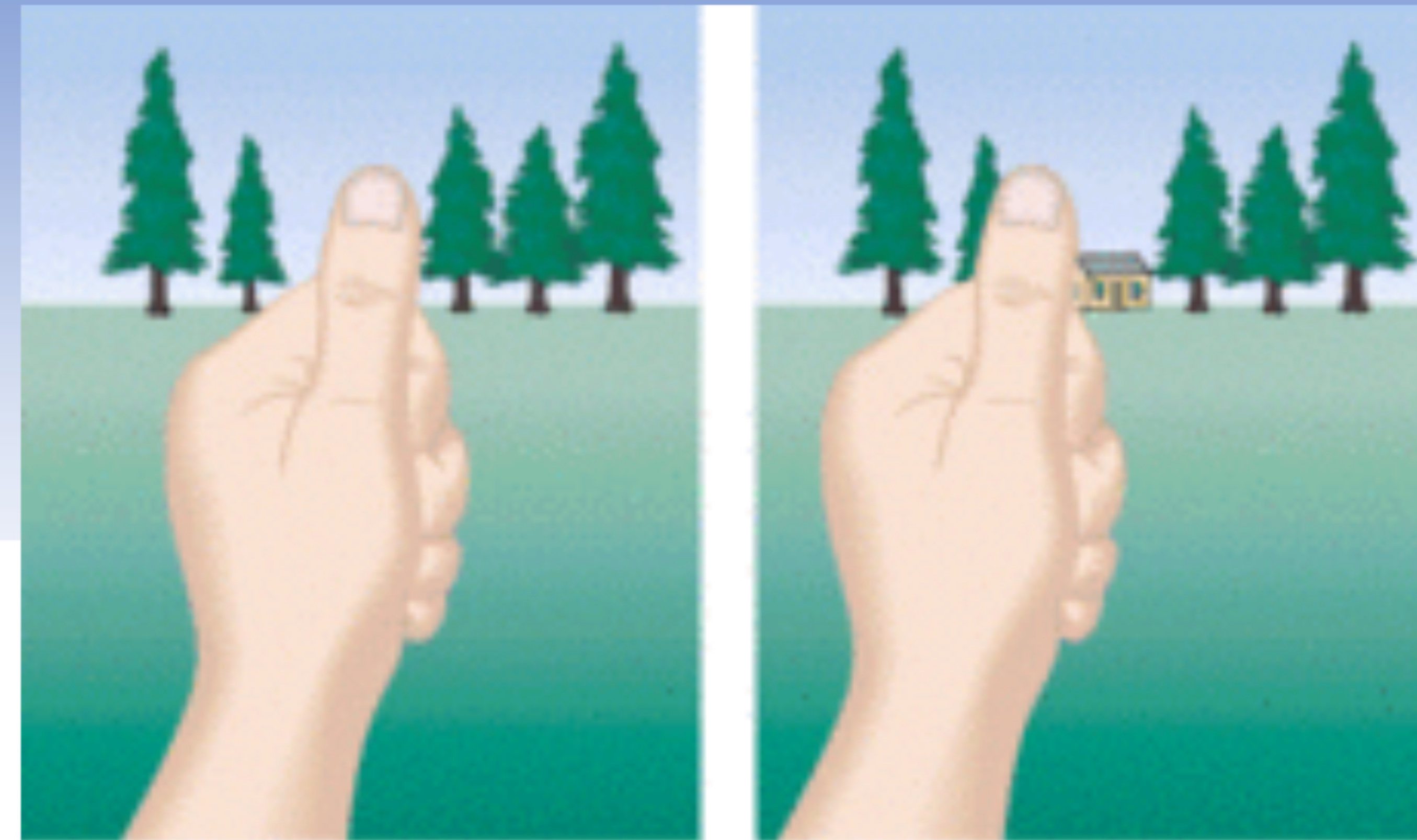
Depth Perception:



Depth Perception:

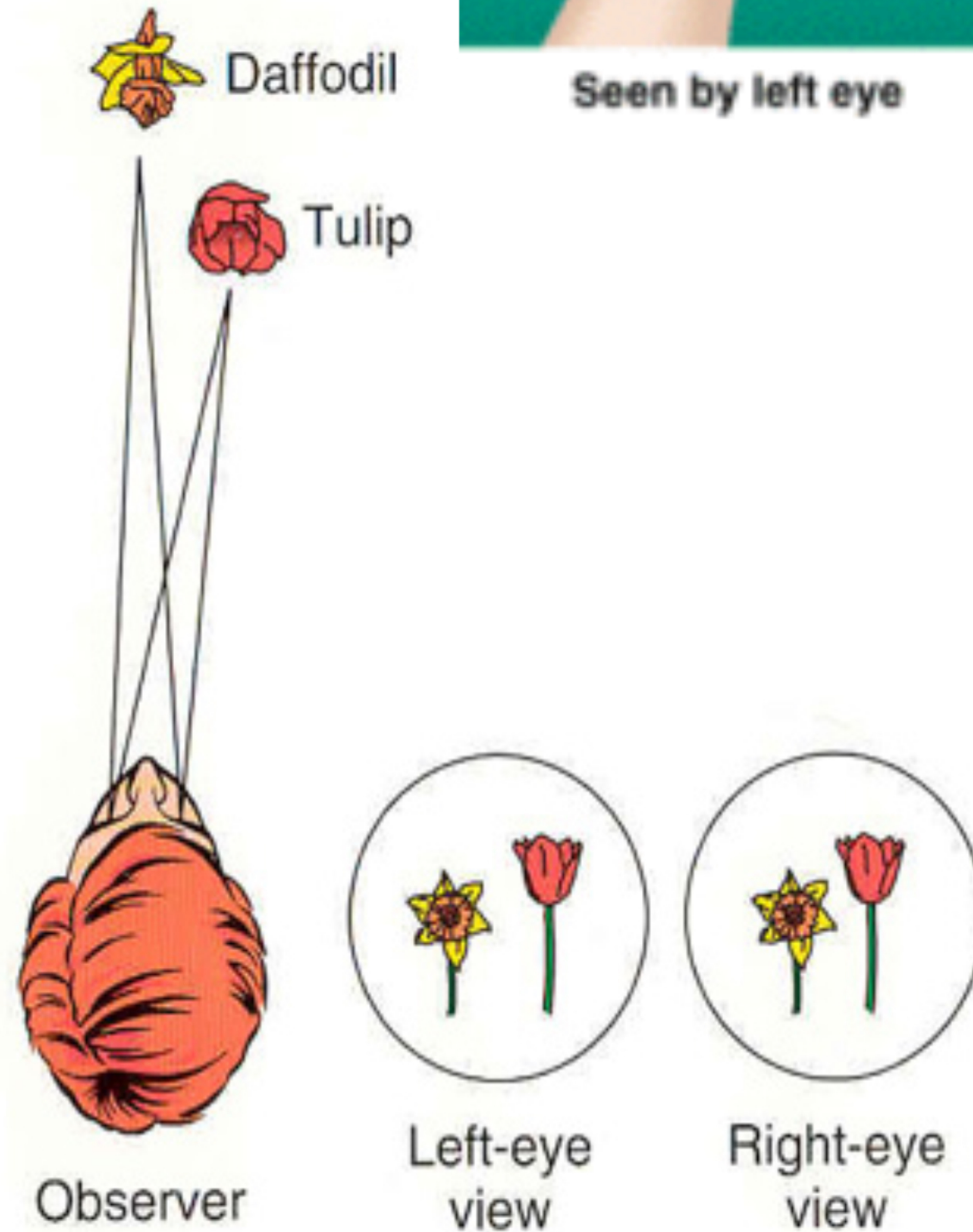
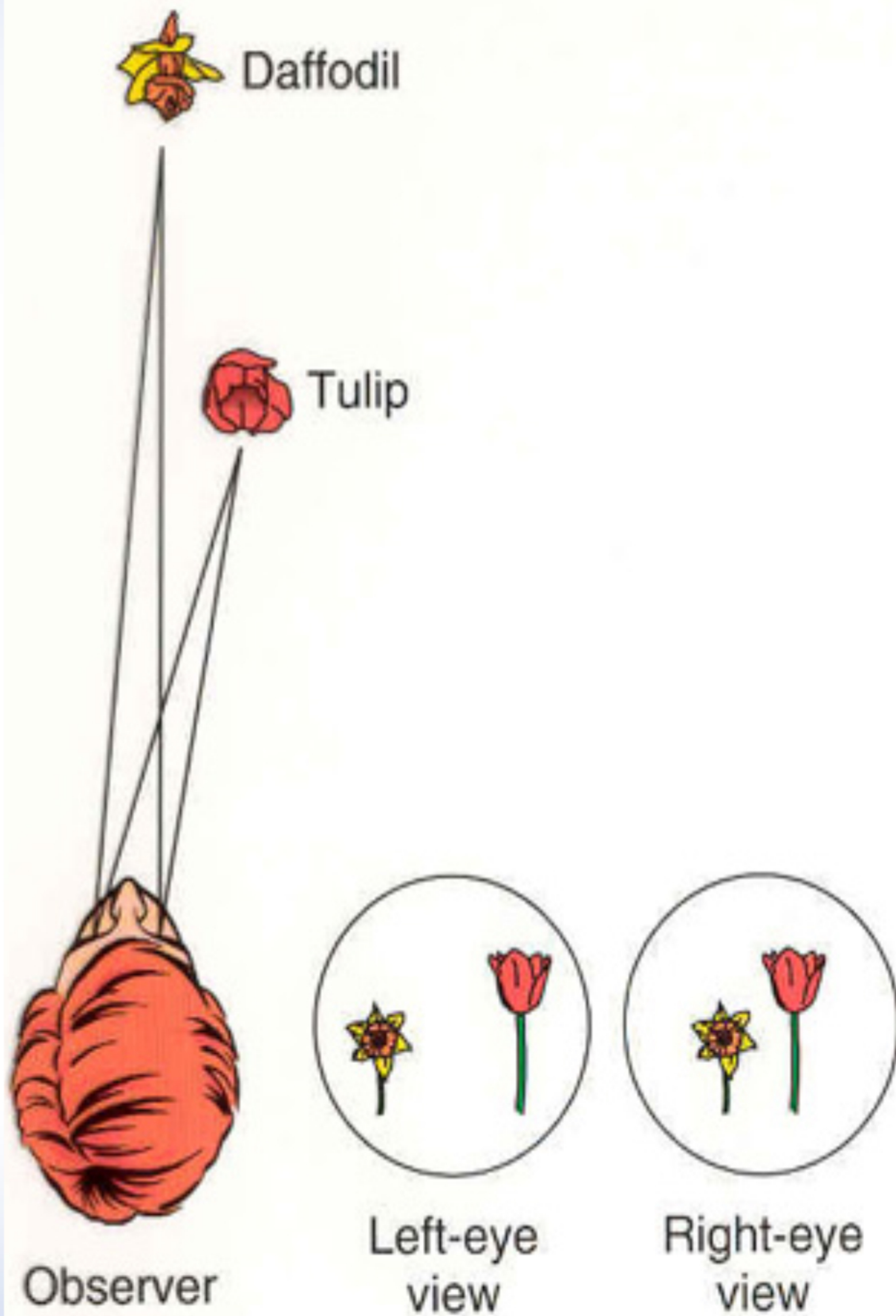


Depth Perception:

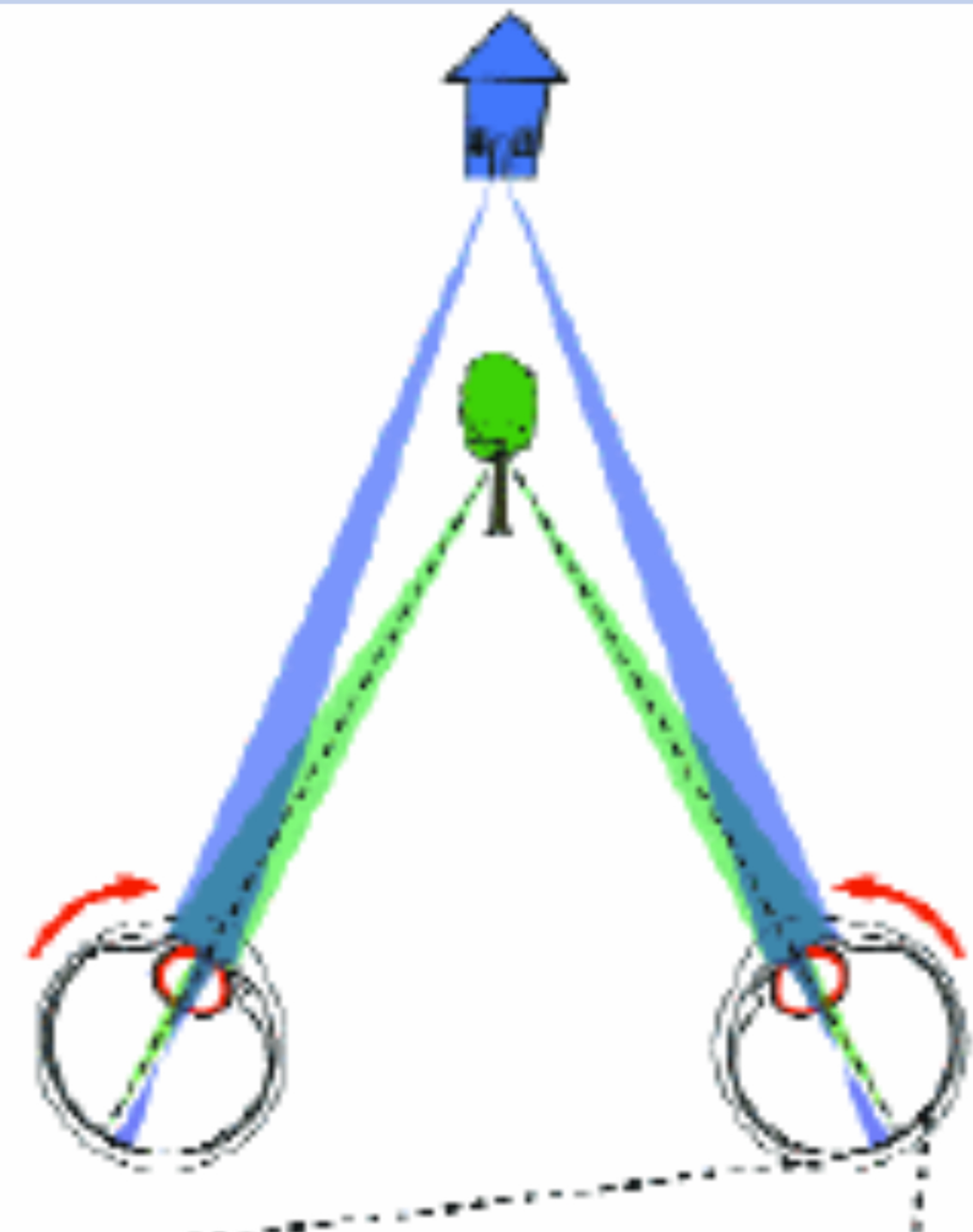
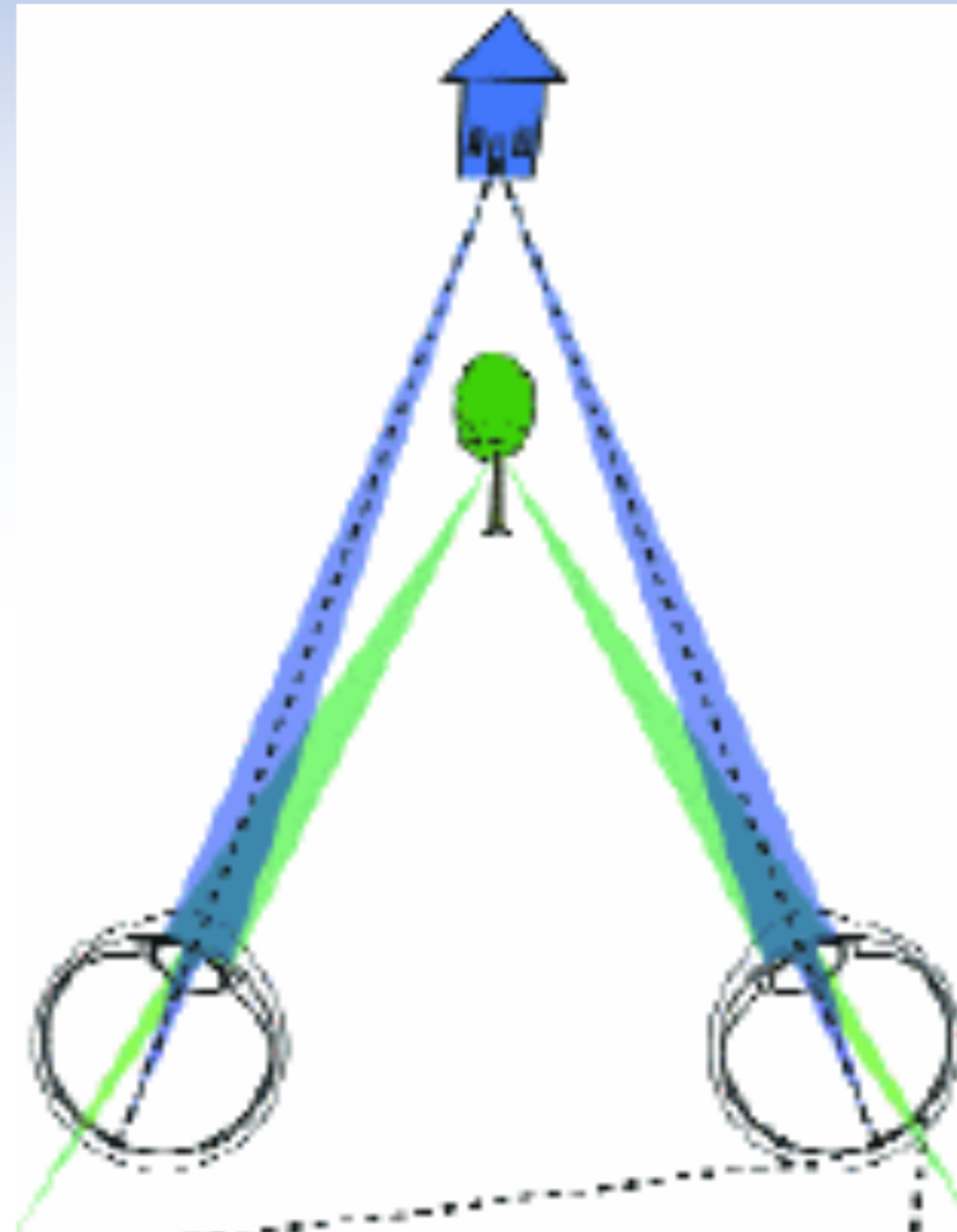
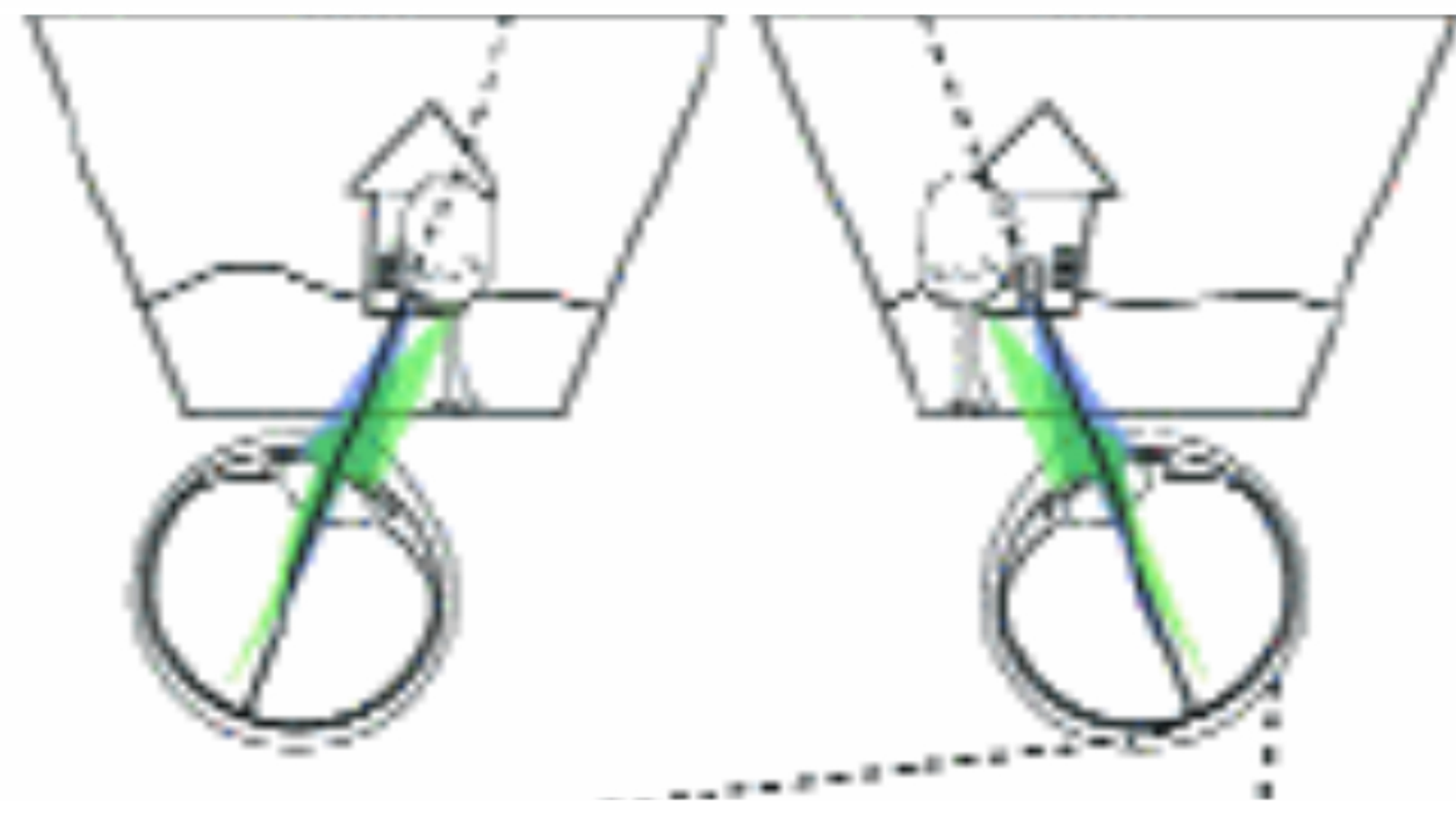


Seen by left eye

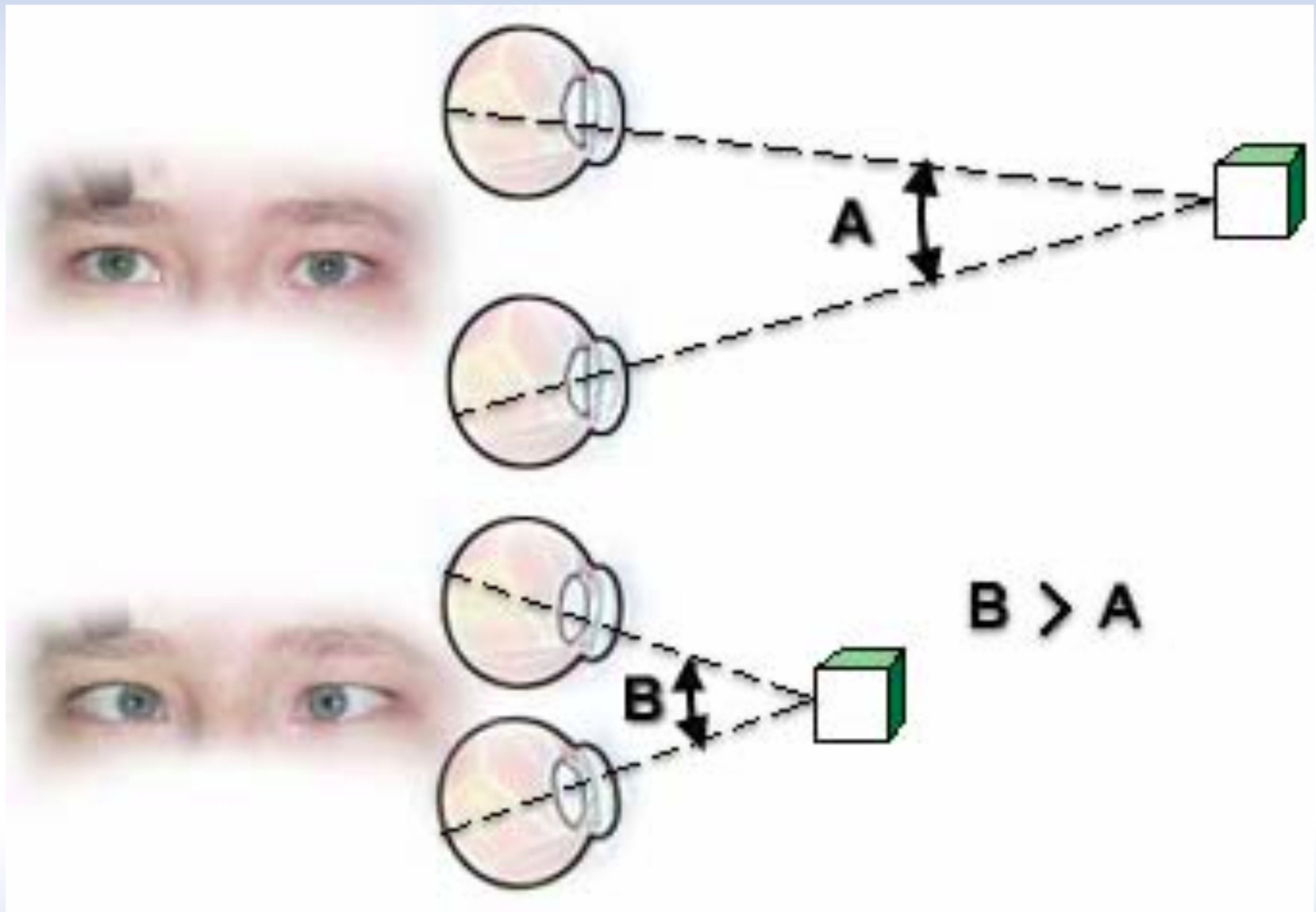
Seen by right eye



Depth Perception:



Depth Perception:



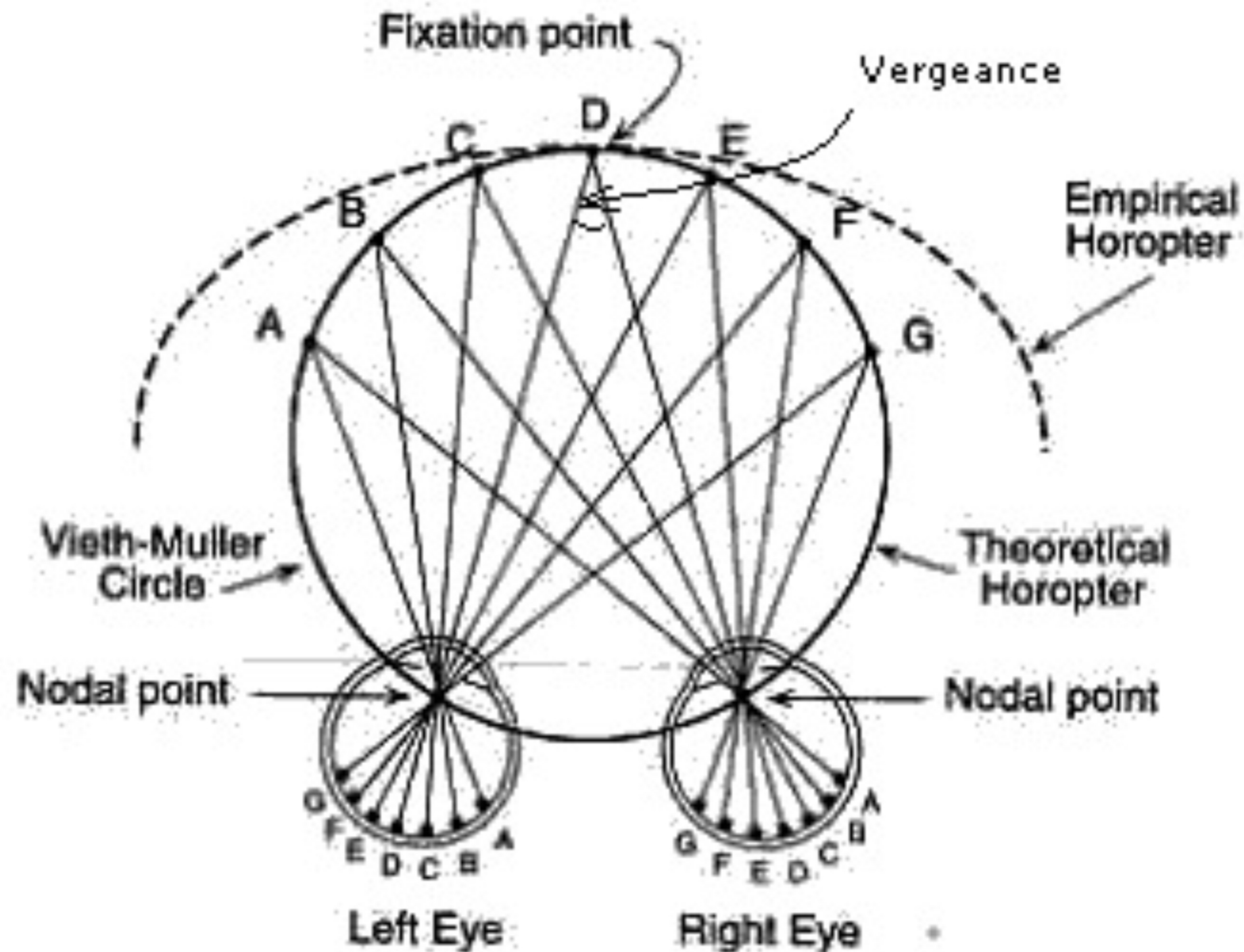
Depth/Scale Perception:



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Horopter: Optimal Focal Curve



Optimal Focal Curve



Motion Perception: Purposes

Neural Circuitry for Motion



<https://www.youtube.com/watch?v=SFbINinFsxk>

http://www.psypress.co.uk/mather/resources/swf/Demo11_1.swf