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G-CSE-10

HUMAN COMPUTER INTERACTION

Q. 1 Study of Visual perception helps in designing efficient interfaces.

Understanding the basic construction of the eye goes somewhere to explaining the physical mechanism of the vision is what visual perception can give a solution to.

The information obtained from Visual apparatus must be filtered & passed to elements that can further process the results which enable to recogning coherent scenes of differentiate color.

-> Perceiving since and depth: 
Eye perceives since, and depth by considering how
the image appears on the retina. The since of
the image is specified as a visual angle.

Visual angle is affected by both the since of the
object and distance from the eye.

-> Perception of single:

Visual argle of object is reduced as it gets away,
but might expect that we might perceive this
object as smaller.

Our perception remains constant even if its visual

Our perception remains constant even if its visual angle changes. So a person's height is constant even though they move away from us. This is the law of size constancy of it indicates that our perception of size relies on factors other than visual angle.

exception of depth: If objects overlap the object which is partially covered is perceived to be in the background hence for away. Similarly on the sing I height of object in our field of view provides a hart of distance, and hence we can judge the distance Perception of Brightness:

It is subject to reaction to levels a light. It
is affected by luminance which is the amount of light falling on the object surface and its reflective properties. Contrast is relative to luminance, it is of the luminance of an object and the incleases with increased luminance. Color is usually made up of three components. Hue Intensity and Saturation. Kue is determined by the spectral wavelength of light Intensity is the brightness of a color. Saturation is the whiteness of a color. beceive 7 million different colors however the identification without training can be done Hence all the above reasons justify why the a efficient uses intellers. efficient user interfaces.