

Chapter 4: Sensation and Perception Cheat Sheet by jhundal via cheatography.com/25038/cs/17769/

Sensation and Perception

sensation stimulation fo sense organs
perception selection, organization and
interpretation of sensory input

Information Processing in the Retina

the retina area that when receptive field of stimulated affects firing of visual light that cell light in the increases firing rate center of receptive field light in the decreases firing rate outside of receptive field occurs when neural activity lateral antagonism in a cell opposes activity in surrounding cells

Perceiving Forms, Pattern and Objects

Feature process of detecting Analysis specific elements in visual input and assembling them in to a more complex form bottom up individual to whole top down whole to elements phi illusion of movement created by presenting visual phenomenon stimuli in rapid success gestalt how the visual system principles organizes a scene into discreet forms

Theories of Hearing

place perception pitch corresponds to theory the vibration of different places along the basilar membrane frequency perception of pitch corresponds to the rate/ frequency at which the entire basilar membrane vibrates

Taste and Smell

cilia receptive for smell in nose

Psychophysics

psychophysics study of how physical stimuli
physics are translated into psychological experience

Signal the detection of stimuli involves
decision processes along as
Theory sensory processes which are
both influenced by a variety of
factors besides stimulus
intensity

Vision and the Brain

two magnocellular and parvocchannels ellular

Perceiving Depth or Distance

binocular clues about distance based on depth the differing views of hte two cues eyes retinal refers to the fact that object within 25 feet project to slightly disparity different locations on the right and left retinas so each eye sees a slight different view of the object converinvolves sensing the eye converging towards each gence other as they focus on closer objects clues about the distance move monocular depth across the retina at different rates cues motion images at different distances parallax move across the retina at different rates pictorial cues about distance that can

be given i na flat picture

Other Senses

kinaes- monitors the position of the thetic various parts of the body system

vestibular responds to gravity and keeps you informed of your body's location in space

Sight

amplitude brightness
wavelength perception of color

Information Processing in the Visual Cortex

feature neurons that respond selectdetectors ively to a very specific features of more complex stimuli

viewing the world in color

wavelength	hue
amplitude	brightness
purity	saturation
subtractive color mixing	works by removing some wavelngth of light, leaving less light than originally there
additive color mixing	works by superimposing lights, putting more light in the mixture than exists in any one light by itself
trichromatic theory	color vision holds that the human eye has 3 types of receptors with differing sensitivities to different light wavelengths
opponent process theory	color vision holds that colour perception depends on receptors that make antago- nistic responses to three pairs of colour



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depth

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Hearing	
wavelength	frequency or hertz
amplitude	decibels
external ear	vibrations of air
middle ear	vibration of movable bones
inner ear	waves in a fluid
pinna	sound collecting cone

Perceiving Sources of Sound

most important for finding loudness source of sound and timing

Touch	
receptive field for touch	when touched neurons fire to the brain alerting it
pain has two pathways to the brain	slow and fast
gate control theory	incoming pain sensations must pass through a "gate" i nteh spinal cord that can be closed, thus blocking ascending pain signals



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