EXAM 2 REVIEW





Reminders

- Read the textbook:
 - https://assets.openstax.org/oscms-prodcms/media/documents/P
 sychology2e-WEB oeRvAre.pdf
- You will have 75 minutes
- Thursday 10/28
- Starts at 11:10
- Bring your laptop and charger: it's on canvas
- Check out with me before you leave
- 50 MC

Consciousness

Studying Consciousness

Structuralist View	IntrospectionBias
Behaviorist View	 Study behavior Does Not study consciousness>doesn't tell you exactly what is happening in the mind
Psychophysiology	 Studying physical responses Measure physical Study psychological Subjective report

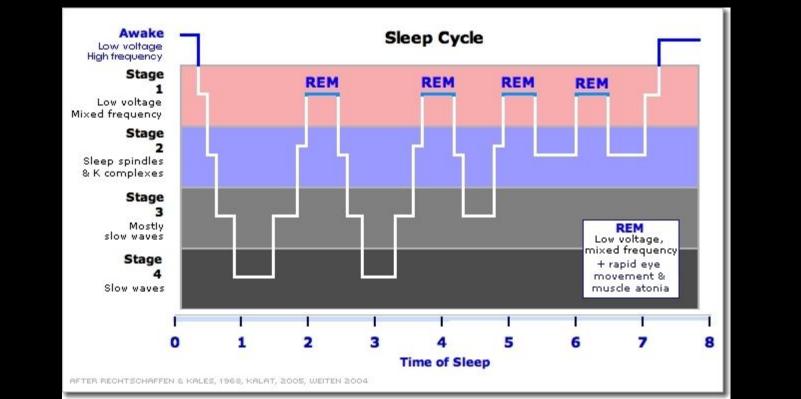
• Scientists use a combination of all of these

States of Consciousness

- Frame of mind
- Conscious
- Unconscious
- Internal
- External

Sleep Cycle

Stage 1	Lightest stage Hypnagogic =Falling into sleep
Stage 2	Deeper sleep Sleep spindles K complexes Heartbeat/ breathing slow, muscles relax
Stage 3	Deep sleep Sleepwalking/ talking
Stage 4	Deep sleep Very hard to wake someone up
REM	Rapid Eye Movement A lot when you're young Dream Longer stages the longer you sleep REM Rebound= making up missed rem sleep, suggests we need this Paradoxical sleep= sleep paralysis Genital arousal, Increased HR, Increased breathing



Sleep Disorders

Insomnia=

habitual sleeplessness; inability to sleep.
Treatment: Use sleeping aid (sleeping pills)

Narcolepsy=

unexpectedly fall asleep Fall asleep in the middle of conversations, while driving

Sleep Apnea=

not getting enough oxygen when sleeping Causes: uvula gets really long Also common

Sleepwalking=

walking around while asleep
Sleeper rises and wanders around

During NREM, Stage 3 or 4

Mainly children

As you get older, you grow out of it

Theories for the purpose of sleep

Restorative Theory=

- Purpose is to restore the body
- Restore body's neurotransmitters
- get rid of waste
- deep sleep (3 and 4)

Growth Theory=

- In children
 - the pituitary gland releases growth-stimulating hormones during sleep

Memory Consolidation Theory/ Learning Theory=

- adequate sleep→ remember better what they learned that day.
- Sleep makes memory more permanent

Adaptive Non-Responding Theory=

- evolved sleep patterns to avoid predators
- sleeping when predators are most active

Attention

=How much mental work you can do

Automatically= didn't take any attention to do

Dichotic Listening

- measure attention & multi-tasking
- listen to two different things in each ear
- Attended message= what you are listening to in one ear
- **Unattended message**= What you are not supposed to listen to
- **shadowing**= listening to something you are hearing and saying the words as you hear them
 - Difficult
 - o measure how many words they failed to say

Selective Attention

 =Selecting what you pay attention to when multiple stimuli are present

"Cocktail Party" Phenomenon

- channel of attention = what you focus on
 - o ex) conversation
- Many stimuli
- Only have so much attention
- Divided Attention= multi-tasking

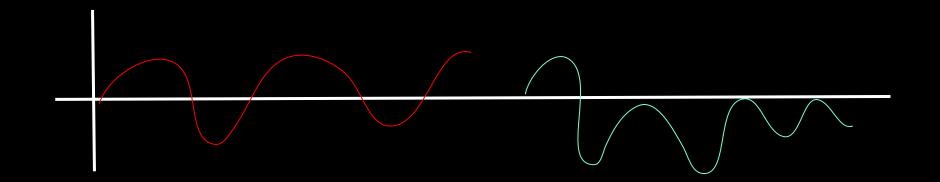
Drug States

- 1. Hypnosis
- 2. Meditation
 - a. has a change in physiological patterns
- 3. Near-death experiences
 - a. many report similar experiences
- 4. Being on drugs/ addiction

Drug Stae: Addiction

Opponent Process Theory

- Addiction» pairing emotions with pleasure + withdrawal
- Needing a drug to reach baseline
- The more addictive a drug, the stronger and faster the affect



Psychoactive Drugs

- Affect CNS
- Alter thinking
- Alter perception
- Alter memory

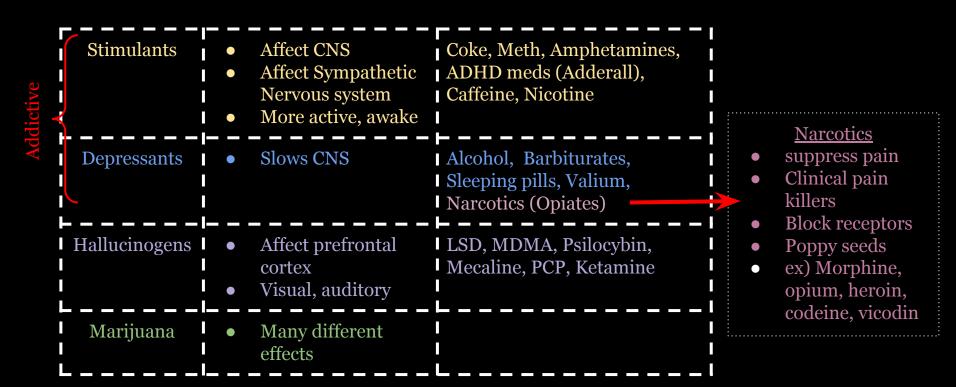
Physical dependence

- Addiction- drug substitute for natural neurotransmitters
 - Psychological dependence + tolerance + withdrawal
- **Tolerance** needing more of the drug to feel the same effects
- Withdrawal- symptoms when you stop taking a drug

Psychological dependence

• = the <u>belief</u> that a drug is necessary to maintain an emotional/ psychological dependence

Psychoactive Drugs



Memory

Forgetting

=loss of learned info, can't retrieve info

"Organic" reasons

<u>Interference</u>

- -response competition
- -contemplating other similar memories
- Ex: Mixing up names

Retrieval failure

- -Most forgetting
- -Can't retrieve from long term memory

-Substance abuse

-Alzheimer's

Repression

-Trauma emotional/ physical

Distortion

-Remembering the original memory but it is distorted

-false memories

Prospective memory failure

-Trying to remember to do something in the future but failing

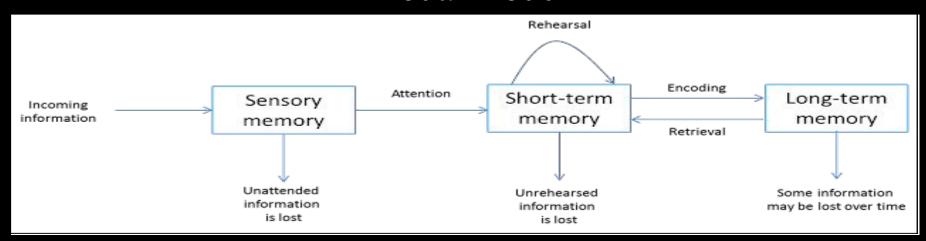
Forgetting

Schacter's Seven Sins of Memory

Sin	Туре	Description	Example Forget events that occurred long ago	
Transience	Forgetting	Accessibility of memory decreases over time		
absentmindedness	Forgetting	Forgetting caused by lapses in attention	Forget where your phone is	
Blocking	Forgetting	Accessibility of information is temporarily blocked	Tip of the tongue	
Misattribution	Distortion	Source of memory is confused Recalling a dream a waking memory		
Suggestibility	Distortion	False memories	Result from leading questions	
Bias	Distortion	Memories distorted by current belief system	Align memories to current beliefs	
Persistence	Intrusion	Inability to forget undesirable memories	Traumatic events	

Forgetting= memory fails

Modal Model



capacity= how much

Duration= how long

Sensory memory= sensory info, very short term

decay= losing information because a little time goes by

Short term memory=working memory, 20–30 seconds, Consciously Aware

Displacement decay= info leaving short term memory

Rehearsal= restating to remember it longer

Pattern recognition= paying attention to what you recognized, Use long term memory to make connection

encoding= transferring short term
info into long-term memory,
making memories

Long term memory= semi-permanent, not always aware

retrieval= becoming aware of long-term memory

Short term Memory

small capacity

Memory span test=hear a series of digits and you have to say them back correctly. What doesn't match up is probably what wasn't held in short term memory

Chunks= meaningful unit of information

Ex: Group letters together to remember them

better

Can hold about 7 things at once (5-9)

253674920

Vs

253 674 920

Long term Memory: Amnesia



physical and/or emotional trauma

Organic amnesia=physical injury **Psychogenic amnesia**= traumatic emotional experience

Episodic memories=personal experience

- what, when where it
- -Most fragile

Retrograde Amnesia

- -affects memories that were formed before the onset of amnesia.
- -The worse the trauma≫ the more you forget
- -Can recover and get older memories back
- -Older memories recovered first
- -Episodic memories lost

Anterograde Amnesia

- -a decreased ability to retain new information
- -Can remember what happened before
- -Long term memory AFTER accident is affected
- -Can't learn new things
- -Can be tricked into using memories of newly learned things:

Word fragments test Memento Amnesia

Memory

separate systems

Conscious Memory
(Explicit)=conscious long-term
memory
easily and intentionally recalled
and recited
people with amnesia cannot
recall

Unconscious Memory
(Implicit)= Things people don't
try to remember, not able to
consciously bring it into
awareness
people with amnesia can recall
Automatic

Types of Memory

Memory	-how you do things -Motor movements -Muscles memory	Mostly Implicit	Learning how to cook pasta	
	happened to you	Implicit	Remembering your last family vacation	-One even to be encoded
		Implicit	Remembering this information for your exam	Encoded after many experiences

Faulty Memory

- Misleading questions= information is suggested in the question but isn't true
 - Causes **misinformation effect**
- **Eye-witness memory**= not very reliable, subject to false memories
 - o court/criminal justice
 - Leading cause of wrongful convictions
- **Biased Photo Spread**= one person looks different
- False memories= a recollection that seems real in your mind but is fabricated
 - o in part or in whole
 - What your falsely recalling fits what you are trying to recall
 - Meaning makes sense

Problem Solving

Point of Views

	• • • • • • • • • • • • • • • • • • • •	
<u>Gestalt</u> :		<u>Associationist</u> :
 Insight Ah ha Unpredictable whole> parts Kohler chimps 	·	 behaviorism Trial-and-error Reinforcement and punishment Problem solving is learning parts>whole Thorndike mouse in a maze

Types of Problem Solving

Reproductive Problem Solving

= using prior knowledge to solving a problem

.....

Algorithm

- step by step solution
- following the rule
- don't deviate

Heuristics

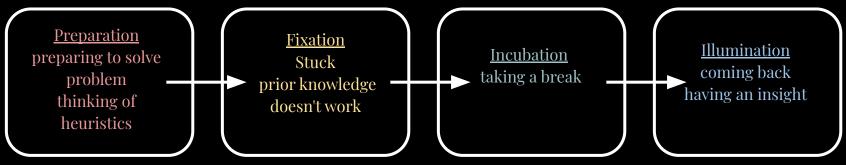
- "Rules of Thumb"
- Usually works, but not always
- What's generally done
- Shortcuts

Creativity

Creative Problem Solving

- Creative Problem Solving = making an original solution to a problem when prior knowledge doesn't work
 - New solution
 - Can't use reproductive problem solving
- **Insight problems**= solution appears suddenly, overcoming initial blocks
- **Stroop Effect** = the delay in reaction time between congruent and incongruent stimuli.





Motivation

Motivation

- Sources of energy arousal
- change in behavior potential
- Can lead to learning
- Directs behavior
- intrinsic= internal
- extrinsic= external

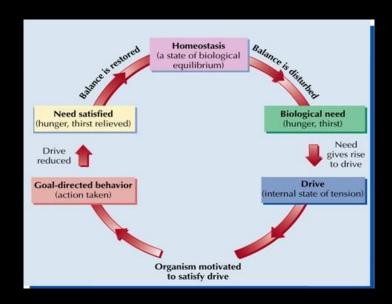
Motivation state:

Changes rapidly Hunger **Motivational Traits:**

Personality
Take a long time to change steady

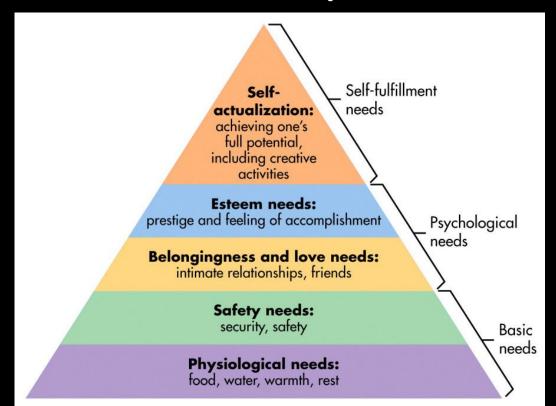
Drive Reduction Theory

- Hull
- Motivation=energy source
- Learning = directs behavior
- The goal of an organism is to reduce drive
- drive= a pool of motivational energy (arousal)
 - want to get rid of this
- Being deprived motivates
- Hunger
- Consummatory behavior = behavior to reduce drive



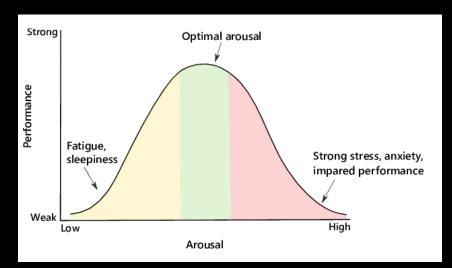
Maslow's Hierarchy of needs

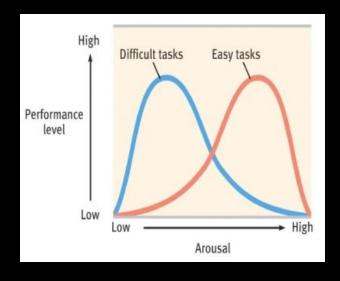
Motivated to become self-actualized



Yerkes-Dodson Law

- optimal arousal theory
- optimal= best or ideal level for doing something
- Optimal level of arousal
- Arousal level can vary
- Depends on:
 - difficulty of the task
 - Mental activity of the individual





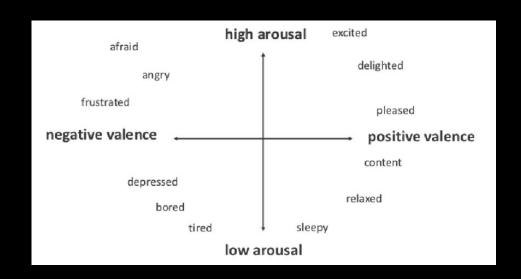
Emotions

Methods for Assessing Emotions

Behavior: Physiological Responses: facial expression how aroused someones body language sympathetic nervous Actions system is Can be wrong≫ you Can be wrong≫ we can can lie/ act interpret them wrong

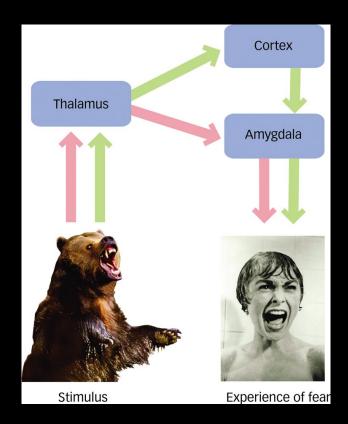
Methods for Assessing Emotions

- **Valence**= used to describe emotions
 - Positive: happy
 - Negative: angry
- **Intensity**= how intense the emotions is
 - High arousal= high intensity
 - Low arousal= low intensity
 - Physiological arousal is the most direct arousal
 - Little sad or very sad

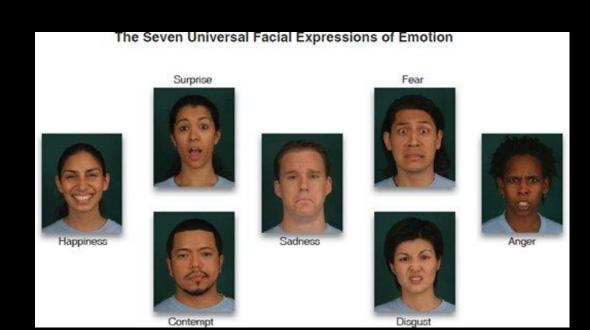


Fear

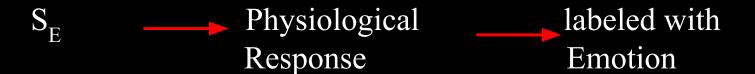
- Processed in the Amygdala
- If that part of the brain is stimulated, a person will feel fear

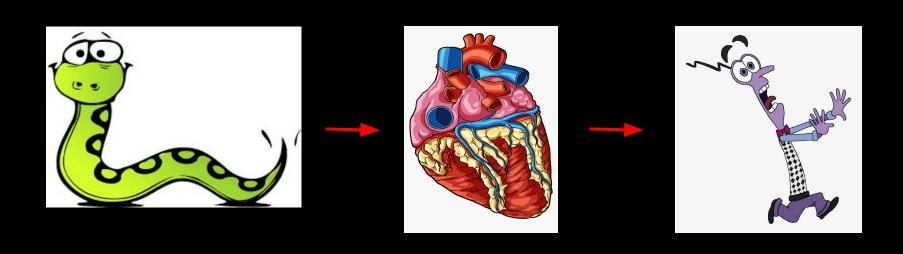


Seven Universal Emotions



James-Lange Theory

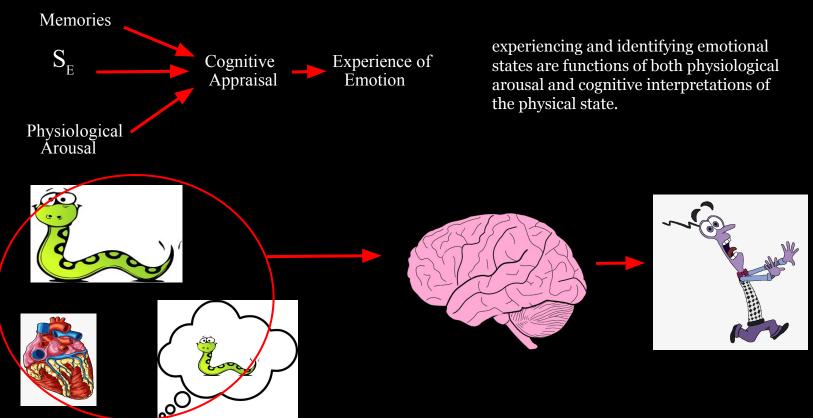




Cannon-Bard Theory Experience of Emotion Thalamus Physiological Response

Occurs simultaneously and independently

Schachter's Cognitive Theory of Emotion



Questions?