

AP Psychology Study Guide

History and Approaches (2-4%)

- Psychology is derived from physiology (biology) and philosophy

- EARLY APPROACHES

- **Structuralism** – used **INTROSPECTION** (act of looking inward to examine mental experience) to determine the underlying **STRUCTURES** of the mind
- **Functionalism** – need to analyze the **PURPOSE** of behavior

- APPROACHES KEY WORDS

- **Evolutionary** – Genes
- **Humanistic** – free will, choice, ideal, actualization
- **Biological** – Brain, NTs
- **Cognitive** – Perceptions, thoughts
- **Behavioral** – learned, reinforced
- **Psychoanalytic/dynamic** – unconscious, childhood
- **Sociocultural** – society
- **Biopsychosocial** – combo of above

- PEOPLE:

- **Mary Calkins:** First Fem. Pres. of APA
- **Charles Darwin:** Natural selection & evolution
- **Dorothea Dix:** Reformed mental institutions in U.S.
- **Stanley Hall:** 1st pres. of APA 1st journal
- **William James:** Father of *American* Psychology – functionalist
- **Wilhem Wundt:** Father of Modern Psychology – structuralist
- **Margaret Floy Washburn**–1st fem. PhD
- **Christine Ladd Franklin** – 1st fem.

Research Methods

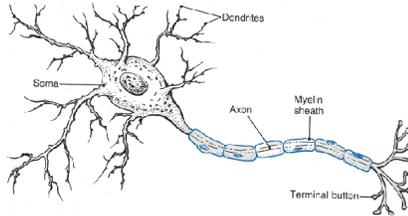
(8-10%)

- EXPERIMENT: Adv: researcher controls variables to establish **cause and effect** Disadv: difficult to generalize
 - **Independent Variable**: manipulated by the researcher
 - **Experimental Group**: received the treatment (part of the IV)
 - **Control Group**: placebo, baseline (part of the IV)
 - **Placebo Effect**: show behaviors associated with the exp. group when having received placebo
 - **Double-Blind**: Exp. where neither the participant or the experimenter are aware of which condition people are assigned to
 - **Dependent Variable**: measured variable (is **DEPENDENT** on the independent variable)
- **Operational Definition**: clear, precise, typically quantifiable definition of your variables – allows **replication**
- **Confound**: error/ flaw in study

- **Random Assignment**: assigns participants to either control or experimental group at random – minimizes bias, increase chance of equal representation

- **Random Sample:** method for choosing participants – minimizes bias
- **Validity:** accurate results
- **Reliability:** same results every time
- **NATURALISTIC OBSERVATION:** Adv: real world validity (observe people in their own setting) Disadv: No cause and effect
- **CORRELATION:** Adv: identify relationship between two variables Disadv: No cause and effect (**CORRELATION DOES NOT EQUAL CAUSATION**)

- **Positive Correlation** – Variables vary in the same direction
- **Negative Correlation**
= variables vary in opposite directions
- **The stronger the # the stronger the relationship REGARDLESS of the pos/neg sign**



- **CASE STUDY:** Adv. Studies ONE person (usually) in great detail – lots of info
Disadv: No cause and effect
- **DESCRIPTIVE STATS:** shape of the data
 - **Measures of Central Tendency:**
 - **Mean:** Average (use in normal distribution)
 - **Median:** Middle # (use in skewed distribution)
 - **Mode:** occurs most often

- **INFERENCE STATISTICS:** establishes significance (meaningfulness) Significant results = **NOT** due to chance
- **ETHICAL GUIDELINES (APA)**
 - Confidentiality
 - Informed Consent
 - Debriefing
 - Deception must be warranted

Biological Basis

(8-10%)

- **NEURON:** Basic cell of the NS
 - **Dendrites:** Receive incoming signal
 - **Soma:** Cell body (includes nucleus)
 - **Axon:** AP travels down this
 - **Myelin Sheath:** speeds up signal down axon
 - **Terminals:** release NTs – send signal onto next neuron
 - **Synapse:** gap b/w neurons
- **Action Potential:** movement of sodium and potassium ions across a membrane sends an electrical charge down the axon
 - **All or none law:** stimulus must trigger the AP past its threshold, but does not increase the intensity of the response (flush the toilet)
 - **Refractory period:** neuron must rest and reset before it can send another AP (toilet resets)

The screenshot shows a PDF viewer window with the title 'studyguidebw.pdf - Adobe Acrobat Pro'. The document content includes the heading 'Psychology – structuralist' and 'Margaret Floy Washburn – 1st fe'. A prominent box contains the text 'Research Methods (8-10%)'. Below this, there is a list of terms:

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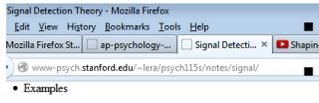
- Sensory neurons – receive signals

 - Afferent neurons – Accept signals

 - Motor neurons – send signals

 - Efferent neurons – signal Exits

 - **CENTRAL NS:** Brain and spinal cord
 - **PERIPHERAL NS:** Rest of the NS
 - Somatic NS: Voluntary movement
 - Autonomic NS: Involuntary (heart, lungs, etc)
 - Sympathetic NS: Arouses the body for fight/flight (generally activates)
 - Parasympathetic NS: established homeostasis after a sympathetic response (generally inhibits)
 - **NEUROTRANSMITTERS (NTS):** Chemicals released in synaptic gap, received by neurons
 - GABA: Major inhibitory NT
 - Glutamate: Major Excitatory NT
 - Dopamine: Reward & movement
 - Serotonin: Moods and emotion
 - Acetylcholine (ACh): Memory
 - Epinephrine & Norepinephrine: sympathetic NS arousal
 - Endorphins: pain control, happiness
 - Oxytocin: love and bonding
-
- Agonist: drug that mimics a NT
 - Antagonist: drug that blocks a NT
 - Reuptake: Unused NTs are taken back up into the sending neuron. SSRIs (selective serotonin reuptake inhibitors) block reuptake – treatment for depression
 - **AREAS OF THE BRAIN:**
 - Hindbrain: oldest part of the brain
 - Cerebellum – movement (what does it take to ring a bell)
 - Medulla – vital organs (HR, BP)
 - Pons – sleep/arousal (Ponzzzzzz)
 - Midbrain
 - Reticular formation: attention (if you can't pay attention, **You R F'd**)
 - Forebrain: higher thought processes
 - Limbic System
 - Amygdala: emotions, fear (Amy, da! You're so emotional!)
 - Hippocampus: memory (if you saw a hippo on campus you'd remember it!)
 - Thalamus: relay center
 - Hypothalamus: Reward/pleasure center, eating behaviors
 - Broca's Area: Inability to produce speech (Broca – Broken speech)
 - Wernicke's Area: Inability to comprehend speech (Wernicke's what?)
 - Cerebral Cortex: outer portion of the brain – higher order thought processes



▪ **Occipital Lobe:** located in the back of the head - vision

▪ **Frontal Lobe:** decision making, planning, judgment, movement, personality

formation and Criterion

▪ **Parietal Lobe:** located on the top of the head - sensations

▪ **Temporal Lobe:** located on the sides of the head (temples) – hearing and face recognition

▪ **Somatosensory Cortex:** map of our sensory receptors –in parietal lobe

▪ **Motor Cortex:** map of our motor receptors – located in frontal lobe

○ **Corpus Callosum:** bundle of nerves that connects the 2 hemispheres – sometimes severed in patients with severe seizures – leads to “split-brain patients”

▪ **Lateralization:** the brain has some specialized features – language is processed in the L Hemisphere

▪ **Split-brain experiments:** done by Sperry & Gazzanaga.

▪ Images shown to the right hemisphere will be processed in the left (& vice versa), patient can verbally identify what they saw

● **BRAIN PLASTICITY:** Brain can “heal” itself

● **NATURE VS. NURTURE: ANSWER IS BOTH**

○ **Twin Studies:**

▪ Identical twins – Monozygotic (MZ)

▪ Fraternal twins – Dizygotic (DZ)

○ **Genetics:** MZ twins will have a higher percentage of also developing a disease

○ **Environment:** MZ twins raised in different environments show differences

● **ENDOCRINE SYSTEM:** sends hormones throughout the body

○ **Pituitary Gland:** Controlled by hypothalamus. release growth hormones

○ **Adrenal Glands:** related to sympathetic NS: releases adrenaline

Sensation & Perception

(6 – 8%)

● **ABSOLUTE THRESHOLD:** detection of signal 50% of time (is it there)

● **DIFFERENCE THRESHOLD (also called a just noticeable difference (JND) and follows WEBER'S LAW:** two stimuli must differ by a constant minimum proportion. (Can you tell a change?)

● **SIGNAL DETECTION THEORY**

● **Sensory Adaptation:** diminished sensitivity as a result of constant stimulation (can you feel your underwear?)

● **Perceptual Set:** tendency to see something as part of a group – speeds up signal processing

● **Inattention Blindness:** failure to notice something b/c you're so focused on another task (gorilla video)

● **Cocktail party effect:** notice your name across the room when its spoken, when you weren't previously paying attention

● **VISUAL SYSTEM:**

○ **Pathway of vision:** light → cornea → pupil/iris → lens → retina → rods/cones → bipolar cells → ganglion cells → optic nerve → optic chiasm → occipital lobe



○ **Cornea** – protects the eye

○ **Pupil/iris** – controls amount of light entering eye

○ **Lens** – focuses light on retina

○ **Fovea** – area of best vision (cones here)

○ **Rods** – black/white, dim light

- **Cones** – color, bright light
- **Bipolar cells** – connect rods/cones and ganglion cells
- **Ganglion cells** – opponent-processing occurs here
- **Blind spot** – occurs where the optic nerve leaves the eye
- **Feature detectors** – specialized cells that see motion, shapes, lines, etc. (experiments by Hubel & Weisel)
- **THEORIES OF COLOR VISION:**
 - **Trichromatic** – three cones for receiving color (blue, red, green)
 - Explains color blindness - they are missing a cone type
 - **Opponent Process** – complementary colors are processed in ganglion cells – explains why we see an after image
- **Visual Capture:** Visual system overwhelms all others (nauseous in an IMAX theater – vision trumps vestibular)
- **Constancies:** recognize that objects do not physically change despite changes in sensory input (size, shape, brightness)
- **Phi Phenomenon:** adjacent lights blink on/off in succession – looks like movement (traffic signs with arrows)
- **Stroboscopic movement:** motion produced by a rapid succession of slightly varying images (animations)
- **MONOCULAR CUES** (*how we form a 3D image from a 2D image*)
 - Interposition: overlapping images appear closer
 - Relative Size: 2 objects that are usually similar in size, the smaller one is further away
 - Relative Clarity: hazy objects appear further away
 - Texture Gradient: coarser objects are closer
 - Relative Height: things higher in our field of vision look further away
 - Linear Perspective: parallel lines converge with distance (think railroad tracks)
- **BINOCULAR CUES:** (how both eyes make up a 3D image)
- Retinal Disparity: Image is cast slightly different on each retinal, location of image helps us determine depth
- Convergence: Eyes strain more (looking inward) as objects draw nearer
- **TOP-DOWN PROCESSING:** Whole → smaller parts
- **BOTTOM-UP PROCESSING:** Smaller Parts → Whole
- **AUDITORY SYSTEM:**
 - **Pathway of sound:** sound → pinna → auditory canal → ear drum (tympanic membrane) → hammer, anvil, stirrup (HAS) → oval window → cochlea → auditory nerve → temporal lobes
 - **Outer Ear:** pinna (ear), auditory canal
 - **Middle Ear:** ear drum, HAS (bones vibrate to send signal)
 - **Inner Ear:** cochlea – like COCHELLA (sounds 1st processed here)
- **THEORIES OF HEARING:** both occur in the cochlea
 - **Place theory** – location where hair cells bends determines sound (high pitches)
 - **Frequency theory** – rate at which action potentials are sent determines sound (low pitches)
- **OTHER SENSES:**
 - Touch: Mechanoreceptors → spinal cord → thalamus → somatosensory cortex
 - Pain: Gate-control theory: we have a “gate” to control how much pain is experienced
 - Kinesthetic: Sense of body position
 - Vestibular: Sense of balance (semicircular canals in the inner ear effect this)

- Taste (gustation): 5 taste receptors: bitter, salty, sweet, sour, umami (savory)
- Smell (olfaction): Only sense that does NOT route through the thalamus 1st. Goes to temporal lobe and amygdala

- **GESTALT PSYCHOLOGY:** Whole is greater than the sum of its parts

- **Gestalt Principles:**

- **Figure/ground:** organize information into figures objects (figures) that stand apart from surrounds (back ground)

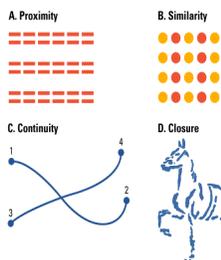


- **Closure:** tendency to mentally fill in gaps

- **Proximity:** tendency to group things together that appear near each other

- **Similarity:** tendency to group things together based off of looks

- **Continuity:** tendency to mentally form a continuous line



States of Consciousness (2 – 4%)

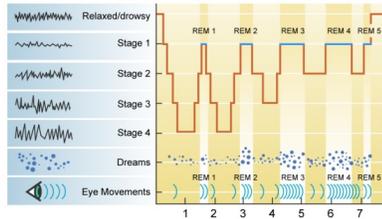
- **STATES of CONSCIOUSNESS:**

- **Higher-Level:** controlled processes – totally aware
- **Lower-Level:** automatic processing (daydreaming, phone numbers)
- **Altered States:** produced through drugs, fatigue, hypnosis
- **Subconscious:** Sleeping and dreaming
- **No awareness:** Knocked out

- **METACOGNITION:** Thinking about thinking

- **SLEEP:**

- **Beta Waves:** awake
 - **Alpha Waves:** high amp., drowsy
 - **Stage 1:** light sleep
 - **Stage 2:** bursts of sleep spindles
 - **Stage 3 (delta waves):** Deep sleep
 - **Stage 4:** extremely deep sleep
 - **Rapid Eye Movement (REM):** dreaming
- Entire cycle takes 90 minutes, REM occurs in/w each cycle. REM lasts longer throughout the night**



- **CIRCADIAN RHYTHM:** 24 hour biological clock
 - Body temp and awareness change due to this
 - Controlled by the Suprachiasmatic nucleus (SCN) in the brain
 - Explains jet lag
- **SLEEP DISORDERS**
 - **Insomnia:** Inability to fall asleep (due to stress/anxiety)
 - **Sleep walking:** (due to fatigue, drugs, alcohol)
 - **Night terrors:** extreme nightmares – NOT in REM sleep – typical in children
 - **Narcolepsy:** fall asleep out of nowhere (due to deficiency in orexin)
 - **Sleep Apnea:** stop breathing suddenly while asleep (due to obesity usually)
- **DREAM THEORIES:**
 - **Freud's Unconscious Wish Fulfillment:** Dreaming is gratification of unconscious desires and needs
 - **Latent Content:** hidden meaning of dreams
 - **Manifest Content:** obvious storyline of dream
 - **Activation Synthesis:** Brain produces random bursts of energy – stimulating lodged memories. Dreams start random then develop meaning
- **HYPNOSIS**
 - **It Can:** Reduce pain, help you relax
 - **It CANNOT:** give you superhuman strength, make you regress, make you do things against your will
- **PSYCHOACTIVE DRUGS:**
 - **Triggers dopamine release in the brain**
 - **Depressants:** Alcohol, barbiturates, tranquilizers, opiates (narcotics)
 - Decrease sympathetic NS activation, highly addictive
 - **Stimulants:** Amphetamines, Cocaine, MDMA (ecstasy), Caffeine, Nicotine
 - Increase sympathetic NS activation, highly addictive
 - **Hallucinogens:** LSD, Marijuana
 - Causes hallucinations, not very addictive
 - **Tolerance:** Needing more of a drug to achieve the same effects
 - **Dependence:** Become addicted to the drug – must have it to avoid withdrawal symptoms
 - **Withdrawal:** Psychological and physiological symptoms associated with sudden stoppage. Unpleasant – can kill you.

Learning

(7-9 %)

- **CLASSICAL CONDITIONING: PAVLOV!**
 - **Unconditioned Stimulus (US):** brings about response w/o needing to be learned (food)

- **Unconditioned Response (UR):** response that naturally occurs w/o training (salivate)
- **Neutral Response (NS):** stimulus that normally doesn't evoke a response (bell)
- **Conditioned Stimulus (CS):** once neutral stimulus that now brings about a response (bell)
- **Conditioned Response (CR):** response that, after conditioning, follows a CS (salivate)
- **Contiguity:** Timing of the pairing, NS/CS must be presented immediately BEFORE the US
- **Acquisition:** process of learning the response pairing
- **Extinction:** previously conditioned response dies out over time
- **Spontaneous Recovery:** After a period of time the CR comes back out of nowhere
- **Generalization:** CR to like stimuli (similar sounding bell)
- **Discrimination:** CR to ONLY the CS
- **CONTINGENCY MODEL: Rescorla & Wagner** – classical conditioning involves cognitive processes
- **CONDITIONED TASTE AVERSION (ONE-TRIAL LEARNING): John Garcia** – Innate predispositions can allow classical conditioning to occur in one trial (food poisoning)
- **COUNTERCONDITIONING: Little Albert and John Watson (father of behaviorism)** – conditioned a fear in a baby (only to countercondition – remove it- later on)
 - **OPERANT CONDITIONING: SKINNER!**
 - **LAW OF EFFECT (Thorndike):** Behaviors followed by pos. outcomes are strengthened, neg. outcomes weaken a behavior (cat in the puzzle box)
- **PRINCIPLES OF OPERANT COND:**
 - **Pos. Reinforcement:** Add something *nice* to *increase* a behavior (gold star for turning in HW)
 - **Neg. Reinforcement:** Take away something *bad/annoying* to *increase* a behavior (put on seatbelt to take away annoying car signal)
 - **Pos. Punishment:** Add something *bad* to *decrease* a behavior (spanking)
 - **Neg. Punishment:** Take away something *good* to *decrease* a behavior (take away car keys)
 - **Primary Reinforcers:** innately satisfying (food and water)
 - **Secondary Reinforcers:** everything else (stickers, high-fives)
 - **Token Reinforcer:** type of secondary- can be exchanged for other stuff (game tokens or money)
 - **Generalization:** respond to similar stimulus for reward
 - **Discrimination:** stimulus signals when behavior will or will not be reinforced (light on means response are accepted)
 - **Extinction / Spontaneous Recovery:** same as classical conditioning
 - **Premack Principle:** high probability activities reinforce low probability activities (get extra min at recess if you everyone turns in their HW)
 - **Overjustification Effect:** reinforcing behaviors that are intrinsically motivating causes you to stop doing them (give a child \$5 for reading when they already like to read – they stop reading)
 - **Shaping:** use *successive approximations* to train behavior (reward desired behaviors to teach a response – rat basketball)
 - **Chaining:** tie together several behaviors
- **Continuous Reinforcement schedule:** Receive reward for every response
- **Fixed Ratio schedule:** Reward every X number of response (every 10 envelopes stuffed get \$\$)
- **Fixed Interval schedule:** Reward every X amount of time passed (every 2 weeks get a paycheck)

- **Variable Ratio schedule:** Rewarded after a random number of responses (slot machine)
- **Variable Interval schedule:** Rewarded after a random amount of time has passed (fishing)
- **Variable schedules are most resistant to extinction** (how long will keep playing a slot machine before you think its broken?)

- **SOCIAL (OBSERVATIONAL) LEARNING: BANDURA!**

- **Modeling Behaviors:** Children model (imitate) behaviors. Study used BoBo dolls to demonstrate the following

- **Prosocial** – helping behaviors
- **Antisocial** – mean behaviors

- **MISC LEARNING TYPES**

- **Latent learning (Tolman!)** – learning is hidden until useful (rats in maze get reinforced half way through, performance improved)
 - **Cognitive maps** – mental representation of an area, allows navigation if blocked
- **Insight learning (Kohler!)** – some learning is through simple intuition (chimps with crates to get bananas)
- **Learned Helplessness (Seligman!)** – no matter what you do you never get a positive outcome so you just give up (word scrambles)

Cognition

(8 – 10%)

ENCODING: Getting info into memory

- **Automatic encoding** – requires no effort (what did you have for breakfast?)
- **Effortful encoding** – requires attention (school work)
- Shallow, intermediate, deep processing: the more emphasis on MEANING the deeper the processing, and the better remembered
- **Imagery** – attaching images to information makes it easier to remember (shoe w/ spaghetti laces)
- **Self-referent encoding** – we better remember what we're interested in (you'd remember someone's phone number who you found extremely attractive)
- **Dual encoding** – combining different types of encoding aids in memory
- **Chunking** – break info into smaller units to aid in memory (like a phone #)
 - **Mnemonics** – shortcuts to help us remember info easier
 - Acronyms – using letter to remember something (PEMDAS)
 - Method of loci – using locations to remember a list of items in order
- **Context dependent memory** – where you learn the info you best remember the info (scuba divers testing)
- **State dependent memory** – the physical state you were in when learning is the way you should be when testing (study high, test high)

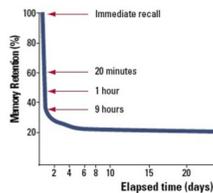
STORAGE: Retaining info over time

- **Information Processing Model** – Sensory memory, short term memory, long term memory model
- **Sensory Memory** – stores all incoming stimuli that you receive (first you have to pay attention)
 - **Iconic Memory** – visual memory, lasts 0.3 seconds
 - **Echoic Memory** – auditory memory, lasts 2-3 seconds
- **Short Term Memory** – info passes from sensory memory to STM – lasts 30 secs, and can remember 7 ± 2 items
 - **Rehearsal** (repeating the info) **resets the clock**
- **Working Memory Model** splits STM into 2 – **visual spatial memory (from iconic mem) and phonological loop (from echoic mem)**. A “central executive” puts it together before passing it to LTM
- **Long term memory** – lasts a life time
 - **Explicit (Declarative):** Conscious recollection

- **Episodic:** events
 - **Semantic:** facts
- **Implicit (Nondeclarative):** unconscious recollection
 - **Classical conditioning**
 - **Priming:** info that is seen earlier “primes” you to remember something later on (octopus, assassin, climate, bogeyman)
 - **Procedural:** skills
- **Memory organization**
 - **Hierarchies:** memory is stored according to a hierarchy
 - **Semantic networks:** linked memories are stored together
 - **Schemas:** preexisting mental concept of how something should look (like a restaurant)
- **Memory storage**
 - **Acetylcholine neurons in the hippocampus for most memories**
 - **Cerebellum for procedural memories**
- **Long-term potentiation:** neural basis of memory – connections are strengthened over time with repeated stimulation (more firing of neurons)

RETRIEVAL: Taking info out of storage

- **Serial Position Effect:** tendency to remember the beginning and the end of the list best
- **Recall:** remember what you’ve been told w/o cues (essays)
- **Recognition:** remember what you’ve been told w/ cues (MC)
- **Flashbulb memories:** particularly vivid memories for highly important events (9/11 attacks)
- **Repressed memories:** unconsciously buried memories – are unreliable
- **Encoding failure:** forget info b/c you never encoded it (paid attention to it) in the first place (which is the real penny)
- **Encoding specificity principle:** the more closely retrieval cues match the way we learned the info, the better we remember the info (like state dependent memory)



- **Forgetting curve:** recall decreases rapidly at first, then reaches a plateau after which little more is forgotten (**EBBINGHAUS**)
- **Proactive interference:** old info blocks new
- **Retroactive interference:** new info blocks old
- **Misinformation effect:** distortion of memory by suggestion or misinformation (**Loftus** – lost in the mall, Disney land)
- **Anterograde amnesia:** amnesia moves forward (forget new info – 50 first dates)
- **Retrograde amnesia:** amnesia moves backwards (forget old info)
- **ALZHEIMER’S DISEASE:** caused by destruction of acetylcholine in hippocampus

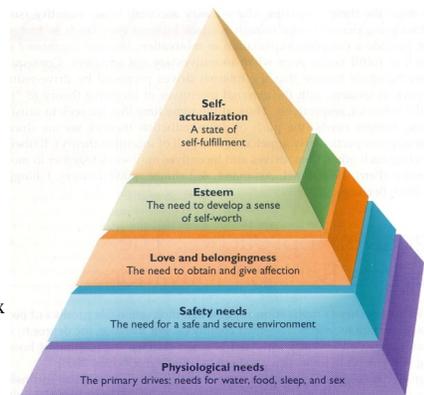
LANGUAGE

- **Phonemes:** smallest unit of sound (ch sound in chat)
- **Morpheme:** smallest unit that carries meaning (syllable)
- **Grammar:** rules in a language that enable us to communicate
- **Semantics:** set of rules by which we derive meaning (adding –ed makes something past tense)
- **Syntax:** rules for combining words into sentences (white house vs casa blanca)
- **Babbling stage:** infants babble 1st stage of speech

- **One-word stage:** duh
- **Two-word stage:** duh duh
- **Theories of language development:**
 - **Imitation:** Kids repeat what they hear – but they don't do it perfectly
 - **Overregularization:** grammar mistake where children over use certain morphemes (I go-ed to the park)
 - **Operant conditioning:** reinforced for language use
 - **Inborn universal grammar:** theory comes from **NOAM CHOMSKY** – says that language is innate and we are predisposed to learn it
 - **Critical period:** period of time where something must be learned or else it cannot ever happen (language must be learned young – Genie the Wild Child)
 - **Linguistic determinism:** language influences the way we think (Hopi people do not have words for the past, thus cannot easily think about the past) developed by **WHORF**

THINKING

- **Concepts:** mental categories used to group objects, events, characteristics
- **Prototypes:** all instances of a concept are compared to an ideal example (what you first think of)
- **Algorithms:** step by step strategies that guarantee a solution (formula)
- **Heuristics:** short cut strategy (rule of thumb)
 - **Representative Heuristic:** make inferences based on your experience (like a stereotype) – assume someone must be a librarian b/c they're quiet
 - **Availability heuristic:** relying on availability to judge the frequency of something (over estimating death due to plane crashes due to recent events)
- **Functional Fixedness:** keep using one strategy – cannot think outside of the box
- **Belief bias:** tendency of one's preexisting beliefs to distort logical reasoning by making invalid conclusions
- **Belief perseverance:** tendency to cling to our beliefs in the face on contrary evidence
- **Inductive reasoning:** data driven decisions, general à specific
- **Deductive reasoning:** driven by logic, specific à general
- **Divergent thinking:** ability to think about many different things at once



Motivation & Emotion

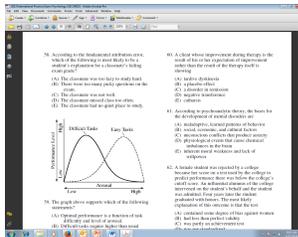
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THEORIES OF MOTIVATION

- **INSTINCT:** complex behaviors have fixed patterns and are not learned (explains animal motivation)
- **DRIVE REDUCTION:** physiological need creates aroused tension (drive) that motivates you to satisfy the need (driven by homeostasis: equilibrium)
 - **Primary drive:** unlearned drive based on survival (hunger, thirst)

○ **Secondary drive:** learned drive (wealth or success)

● **OPTIMUM AROUSAL:** humans aim to seek optimum levels of arousal –easier tasks requires more arousal, harder tasks need less



● **HIERARCHY OF NEEDS:** theory derived by MASLOW – needs lower in the pyramid have priority over needs higher in the pyramid

● **Intrinsic motivation:** inner motivation – you do it b/c you like it

● **Extrinsic motivation:** motivation to obtain a reward (trophy)

HUNGER

● **Signals of hunger:**

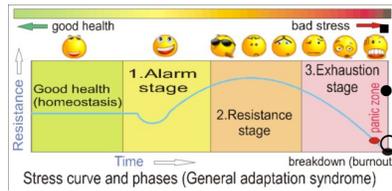
- Stomach contractions tell us we're hungry
- **Glucose** (sugar) level is maintained by the **pancreas (endocrine system)**.
- **Insulin** decreases glucose. Too little glucose makes us hungry.
- **Orexin** is released by the **hypothalamus** – telling us to eat.
- Other chemicals include **ghrelin, obestatin, and PPY**
- **Lateral hypothalamus:** when stimulated makes you hungry, when lesioned you will never eat again. (I'm LATE for lunch. I'm hungry. The LATERal hypothalamus makes you hungry.)
- **Ventromedial hypothalamus:** when stimulated you feel full, when destroyed you eat eat eat eat (fat woman and cake)
- **Leptin:** leptin signals the brain to reduce appetite

● **Obesity:**

- Increased risk of **heart attack, hypertension, atherosclerosis, diabetes**
- Can be genetic – adopted children resemble their biological parents
- **Set point:** there is a control system that dictates how much fat you should carry – every person is different

● **Eating Disorders:**

- **Anorexia:** weight loss of at least 15% ideal weight, distorted body image
 - **Causes:** overly critical parents, perfectionist tendencies, societal ideals
- **Bulimia:** usually normal body weight, go through a binge-purge eating pattern (eat massive amounts, then throw up)



Causes: same as anorexia

SEXUALITY

Biology of sex:

Hypothalamus: stimulation increases sexual behavior, destruction leads to sexual inhibition

- **Pituitary gland:** monitors, initiates, and restricts hormones
 - **Males – testosterone**
 - **Females - estrogen**
- **Sexual Response Pattern:** Excitement phase, plateau, orgasm, refractory period (resolution phase) (cannot “fire” again until you reset, guys only)
- **Alfred Kinsey:** 1st researcher to conduct studies in sex, suggested that people were very promiscuous. Studies lacked a representative sample, created scale of homosexuality
- **Homosexuality:** biological roots: differences in the brain, identical twins more likely to both be gay, later sons more likely to be (hormones from mom)

THEORIES OF EMOTIONS

- **JAMES-LANGE:** stimulus → physiological arousal → emotion
- **CANNON-BARD:** stimulus → physiological arousal & emotion simultaneously
- **SCHACTER TWO FACTOR:** adds in cognitive labeling (bridge experiment) stimulus → arousal → interpret external cues → label emotion
- Some stimuli are routed directly to the **amygdala** bypassing the frontal cortex (gut reaction to a cockroach)
- **Behavioral factors:** there are **SIX** universal emotions (happiness, anger, sadness, surprise, disgust, fear) seen across ALL cultures
- **Non-verbal cues:** gestures, Duchenne smile (you can tell a real smile from a fake one)
- **Facial feedback hypothesis:** being forced to smile will make you happier (facial expressions influence emotion)

STRESS AND HEALTH

- **GENERAL ADAPTATION SYNDROME (GAS):** three phases of a stress response (SELYE came up w/ this)
 - **Alarm:** body/you freak out in response to stress
 - **Resistance:** body/you are dealing with stress
 - **Exhaustion:** body/you cannot take any more, give up
- **Type A Personality:** rigid, stressful person, perfectionist. At risk for heart disease
- **Type B Personality:** laid back, nonstressed.

INDUSTRIAL/ORGANIZATIONAL PSYCH

- **Industrial / Organizational Psych:** psychological of the workplace – focuses on employee recruitment, placement, training, satisfaction, productivity
- **Ergonomics / Human Factors:** intersection of engineering and psych – focuses on safety and efficiency of human-machine interactions
- **Hawthorne effect:** productivity increases when workers are made to feel important
- **Theory X management:** manager controls employees, enforces rules. Good for lower level jobs
- **Theory Y management:** manager gives employees responsibility, looks for input. Good for high level jobs

- **Employee Commitment:**
 - Affective: emotional attachment (best type)
 - Continuance: stay due to costs of leaving
 - Normative: stay due to obligation (they paid for your school)

- **Meaning of Work:**
 - Job – no training, just do it for \$\$. No happiness
 - Career – work for advancement. Some happiness
 - Calling – work because you love it. Lotsa happiness

Development

(7-9%)

- **Prenatal Development:**
 - **Zygote:** 0 – 14 days, cells are dividing
 - **Embryo:** until about 9 weeks, vital organs being formed
 - **Fetus:** 9 wks to birth, overall development
 - **Teratogens:** external agents that can cause abnormal prenatal development (alcohol, drugs, etc)
 - Fetal alcohol syndrome (FAS): large amount of alcohol leads to FAS, causes deformities, mental retardation, death
- **Physical Development:**
 - **Maturation:** natural course of development, occurs no matter what (walking)
 - **Reflexes:** innate responses we're born with
 - Rooting, sucking, swallowing, grasping, stepping
 - **Habituation:** after continual exposure you pay less attention – used to test babies
 - **Eyes have the most limited development, takes till 1 year**
 - **Visual cliff:** babies have to learn depth perception, so they will cross a “cliff”
 - **Other senses are fairly developed**
 - **Brain development continues for a few years**
- **JEAN PIAGET'S COGNITIVE DEV.**
- **Schemas** – concepts or frameworks that organize info
- **Assimilation:** incorporate new info into existing schema (aSSimilation – same stuff)
- **Accommodation:** adjust existing schemas to incorporate new information (ACcommodation - All Change)
- **Sensorimotor Stage: Birth to 2 years: **focused on exploring the world around them****
 - **Lack Object Permanence:** Objects when removed from field of view are thought to disappear (peek-a-boo)
 - **Dev. Sense of Self:** by 2 yrs can recognize themselves in the mirror
- **Pre-operational Stage: 2 – 7 years: **use pretend play, developing language, using intuitive reasoning****
 - **Lack Conservation:** recognize that substances remain the same despite changes in shape, length, or position (girls with juice in glasses)
 - **Lack Reversibility:** cannot do reverse operations (count out both 4+2 and 2+4)

- *Are egocentric*: inability to distinguish one's own perspective from another's – think everyone sees what they see
- **Concrete Operational Stage**: 7-11 yrs: use operational thinking, classification, and can think logical in concrete context
- **Formal Operational Stage**: 11-15 yrs: use abstract and idealist thoughts, hypothetical-deductive reasoning
- **Problems with Piaget's theory**: stages to discrete, dev. differs b/w kids
- **VYGOTSKY'S THEORY**: cognitive development is a social process too, need to interact w/ others
 - **Zone of Proximal Development**: gap b/w what a child can do on their own and w/ support. Need scaffolding (teachers)

SOCIOEMOTIONAL DEVELOPMENT

- **Temperament**: patterns of emotional reactions and babies (precursor to personality)
- **Imprinting**: baby geese believe the first thing they see after hatching is their mom – happens during a **critical period** (from LORENZ)
- **HARRY HARLOW**: discovered that contact comfort is more important than feeding (monkeys fed on wire or cloth mothers). Monkeys raised in isolation couldn't socialize
- **MARY AINSWORTH**: developed the **strange situation paradigm** (children left alone in a room w/ a stranger, then reunited w/ mom – determines your attachment style)
 - **Secure attachment (60% of infants)**: upset when mom leaves, easily calmed on return. Tend to be more stable adults
 - **Avoidant attachment (20% infants)**: actively avoids mom, doesn't care when she leaves
 - **Ambivalent attachment(10% infants)**: actively avoids mom, freaks out when she leaves
 - **Disorganized attachment (5%)**: confused, fearful, dazed – result of abuse
- **BAUMRIND**: parenting styles
 - **Authoritarian**: rules & obedience, “my way or the highway” – kids lack initiative in college
 - **Permissive**: kids do whatever – no rules – kids lack initiative in college
 - **Authoritative**: give and take w/ kids – kids become socially competent and reliable
- **KOHLBERG'S MORAL DEV**
 - **Preconventional morality**: Children: they follow rules to avoid punishment
 - **Conventional morality**: adolescents: follow rules b/c rules exist to keep order
 - **Postconventional morality**: adults: they do what they believe is right (even if it goes against society)
- **Carol Gilligan**: said moral reasoning and moral behaviors are two different things (what you say isn't always what you do)
- **ERIKSON'S SOCIOEMOTINAL DEV.** : 8 stages, each stage represents a crisis that must be resolved, results in competence or weakness
 - **Trust vs Mistrust** (*birth – 18 months*): if needs are dependably met infants dev basic trust
 - **Autonomy vs shame&doubt** (*1 -3 yrs*): toddlers learn to exercise their will and think for themselves
 - **Initiative vs guilt** (*3-6 yrs*): learn to initiate tasks and carry out plans
 - **Industry vs inferiority** (*6 yrs to puberty*): learn the pleasure of applying themselves to tasks
 - **Identity vs role confusion**: (*adolescence thru 20s*): refine a sense of self by testing roles and forming an identity
 - **Intimacy vs isolation**: (*20s—40s*): form close relationships and gain capacity for love
 - **Generativity vs stagnation**: (*40s-60s*): discover sense of contributing to the world, thru family & work
 - **Integrity vs despair**: (*60s and up*): reflect on your life, feel satisfaction or failure
- **PUBERTY!** (rapid skeletal and sexual maturation)
 - **Primary sex characteristics**: necessary structures for reproduction (ovaries, testicles, vagina, penis)
 - **Secondary sex characteristics**: nonreproductive characteristics that dev during puberty (breasts, hips, deepening of

voice, body hair)

- **Frontal lobe continuous dev (not fully developed till 25)**

- **GENDER DEVELOPMENT:** sex = chromosomes, gender = what you identify yourself as

- **Gender roles:** expected behaviors (norms) for men/women
- **Social learning theory:** we learn gender roles and identity from those around us

- **AGING:**

- **Cellular clock theory:** cells have a maximum # of divisions before they can't divide anymore
- **Free-radical theory:** unstable oxygen molecules w/in cells damage DNA
- **Over time skills decrease** (reaction time, memory)

- **CROSS-SECTIONAL STUDY:** studies ppl of different ages at the same point in time

- **Adv:** inexpensive & quick
- **Disadv:** can be differences due to generational gap

- **LONGITUDINAL STUDY:** studies same ppl over time

- **Adv:** eliminates groups differences, lots of detail
- **Disadv:** expensive, time consuming, high drop out rates

- **Stages of Grief** (crap btw)

- **Denial:** "this can't be happening"
- **Anger:** "why me?"
- **Bargaining:** "just let me live to see my kids graduate"
- **Depression:** "why bother"
- **Acceptance:** "its going to okay"

- **Problem-focused coping:** solving or doing something to alter the course of stress (planning, acceptance)

- **Emotion-focused coping:** reducing the emotional distress (denial, disengagement)

Personality

(5-7%)

PSYCHODYNAMIC EXPLANATION

SIGMUND FREUD said personality was largely unconscious. Came up w/ the following:

- **Conscious:** immediate awareness of current environment
- **Preconscious:** available to awareness (phone #s)
- **Unconscious:** unavailable to awareness
- **id:** our hidden true animalistic wants and desires – operates on the pleasure principle, all about rewards and avoiding pain (*devil on your shoulder – entirely unconscious*)
- **superego:** our moral conscious (*angel on your shoulder, all 3 consciousness*)
- **ego:** reality principle, has to deal w/ society, stuck mediating b/w the id and superego (*its you! – conscious and preconscious*)

When ego cannot mediate b/w the id and superego, we use defense mechanisms

- **Repression:** push memories back into the unconscious mind (sexual abuse is too traumatic to deal w/ so you repress it)
- **Projection:** attribute personal shortcomings & faults on to others (man who wants to have an affair accuses his wife of having one)
- **Denial:** refuse to acknowledge reality (refuse to believe you have cancer)
- **Displacement:** shift feelings from an unacceptable object to a more acceptable one (can't tell at teacher, go home and yell at the dog)

- **Reaction formation:** transform unacceptable motive into his opposite (woman who fears sexual urges becomes a religious zealot)
- **Regression:** transform into an earlier development period in the face of stress (during exam week you start to suck your thumb)
- **Rationalization:** replace a less acceptable reasoning with a more acceptable one (don't get into your college – justify it was a sucky college anyway)
- **Sublimation:** replace unacceptable impulse w/ a socially acceptable one (man w/ strong sexual urges paints nudes. Dexter)

FREUD'S PSYCHOSEXUAL STAGES

- **Oral stage (0-18 months):** pleasure focuses on the mouth (id)
- **Anal stage (18 – 36 months):** pleasure involves eliminative functions (ego forms)
- **Phallic stage (3 – 6 yrs):** pleasure focuses on genitals (superego forms)
 - **Oedipal complex:** young boys learn to identify w/ their father out of fear of retribution (castration anxiety)
 - **Electra complex:** young girls learn to identify w/ their mother b/c they cannot with their father (penis envy)
- **Latency stage (6 yrs to puberty):** psychic time out – personality is set
- **Genital State (adulthood):** sexual reawakening – oedipal and electra “feelings” are repressed, turn sexual wants onto an appropriate person
- **FIXATION:** can become “stuck” in an earlier stage – influences personality (oral stage smokes/drinks, anal is “anal retentive”, phallic is promiscuous)

What's wrong w/ Freud theory? – unverifiable, descriptive not predictive

What's good about it? – 1st theory about personality, sparked psychoanalysis

How do we test this approach?

- **Psychoanalysis:** analyze a person's unconscious motives thru the use of:
 - **Free Association:** say aloud everything that comes to mind w/o hesitation
 - **Transference:** looks for feelings to transferred to psychoanalyst
 - **Dream interpretation:** analyze the manifest (seen message) and latent (hidden messages) content
 - **Projective Tests:** ambiguous stimuli shown to look at your unconscious motives (**THESE SUCK B/C THEY ARE VERY SUBJECTIVE**)
 - Thematic apperception test (TAT) : tell a story about a picture (when someone has a tattoo (tatt) you ask what it means
 - Rorschach inkblot: show an inkblot

NEO-FREUDIANS

- **CARL JUNG:** believed in the *collective unconconscious* (shared inherited reservoir of memory – explains common myths across civilizations & time)
- **KAREN HORNEY:** said personality develops in context of social relationships, NOT sexual urges (security not sex is motivation, men get womb envy)

TRAIT PERSPECTIVE

- **Traits** are enduring personality characteristics, people can be described by these – have strong or weak tendencies. They are stable, genetic, and predict other attributes.
- Use **factor analysis** to find these: statistical procedure used to identify similar components
- **TRAIT THEORIES:**
- **Big Five:** (by Costa & McCrae) (acronym OCEAN) You vary on each of these
 - **O**penness : imaginative, independent, like variety
 - **C**onscientiousness: organized, careful, disciplined
 - **E**xtraversion: sociable, fun-loving, affectionate (opposite it **introversion**: shy, timid, reserved)

- **Agreeableness:** soft hearted, trusting, helpful
- **Neuroticism (emotional stability):** calm, secure

What's wrong with trait theory? – ignores the role of the situation in behavior

What's good about it? - identifying traits gives us perspectives about careers, relationships, health

How do we test this approach?

- **MMPI** – helpful for mental health and job placement
- **Myer's Briggs** – gave you 4 letter combo

What's wrong w/ these tests?

- They're long, social desirability can be an influence, and they're too broad

HUMANISTIC PERSPECTIVE

- Emphasized personal growth and free will. You don't like yourself? So change!
- **CARL ROGERS:** talked about our *self-concept (idea of who we are)*. Your self-concept is the center of your personality
 - **Actual (social) self:** what others see
 - **Ideal (true) self:** who you WANT to be
 - A *positive* self-concept makes us perceive the world positively (optimist)
 - A *negative* self-concept makes us feel dissatisfied and unhappy

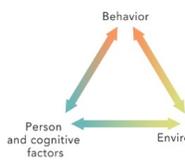
What wrong with humanistic theory? - too optimistic about human nature, abstract concepts are difficult to test

What's good about it? – emphasizes conscious experiences and change

- **Individualistic Cultures:** give priorities to own goals over group goals. Define your identity in terms of you (American society)
- **Collectivistic Cultures:** give priority to the goals of the group, your identity is part of that group (China)

SOCIAL-COGNITIVE PERSPECTIVE

- Behavior is a complex interaction of inner process and environmental influence – which influences personality
- Emphasizes conscious awareness, beliefs, expectations, and goals



- **BANDURA!** Talked about **RECIPROCAL DETERMINISM:** interaction of behavior, cognitions, and environment make up *you*.

● {I'm outgoing (*behavior*), I choose to teach b/c it lets me be outgoing (*environment*), and I have thought this through which is why I teach despite making less money (*cognitive*)}

- **Self-efficacy:** belief that one can succeed, so you ensure you do
- **Internal locus of control:** you control your own fate
- **External locus of control:** chance / outside forces control your fate

What's wrong with social-cognitive? – Too specific, cannot generalize

What's good about it? – Highlights situations, and cognitive explanations of personality

How do we test it? – Observations & interviews (time consuming)

Testing &

Individual Differences

(5-7%)

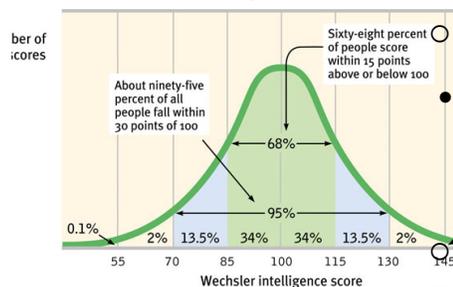
Individual Theories about Intelligence

- **GALTON:** 1st to suggest intelligence was inherited. Intelligence based on muscle strength, size of head, reaction time, etc.
- **CATTELL:** 2 clusters of mental abilities
 - **Crystallized intelligence:** reasoning and verbal skills - what you learn in school – the cold hard (like crystals!) facts
 - **Fluid intelligence:** spatial abilities, rote memory, things that come natural to you – can't learn in school. Also decrease over time
- **SPEARMAN'S G FACTOR:** said a general intelligence (g) underlies all mental abilities (typical IQ of today)
- **GARDNER:** multiple intelligences (8): linguistic, logical-mathematical, musical, spatial, bodily-kinesthetic, intrapersonal (self),

interpersonal (social), naturalist

- **STERNBERG: TRIARCHIC THEORY**

- **Analytical:** mental components to solve problems, what IQ tests assess (book smarts)
- **Practical:** ability to size up new situations and adapt to real-life demands (street smarts)



- **Creative:** intellectual and motivational processes that lead to novel solutions, ideas, products

- **BINET:** developed 1st intelligence test, combined with **TERMAN** – developed the **STANFORD-BINET IQ TEST**

$$IQ = \frac{\text{mental age}}{\text{chronological age}} \times 100$$

Chronological age = actual age

- Mental age = tested age compared to other of that age

- 100 is average

- **WECHSLER:** developed the WAIS and WISC – most commonly used today

- **FLYNN effect:** IQ has steadily risen over the past 80 years – probably due to education standards and better IQ tests

- **Extremes of Intelligence:** high IQ = above 135; mentally retarded = below 70

- **Causes of mild retardation:**

- PKU – liver fails to produce an enzyme needed to breakdown chemicals – leads to brain damage
- Down syndrome – extra copy of 21st chromosome
- Fragile X – higher chance in boys due to ONE X chromosome

- **Influence on IQ:**

- **Genetics:** MZ twins have similar IQ, adopted kids more similar to biological parents
- **Environment:** early neglect leads to lower IQ, good schooling to higher IQ

- **Types of Tests:**

- **Aptitude:** predicts your abilities to learn a new skill (ASVAB)
- **Achievement:** tests what you know (SAT)

- **TEST CREATION:**

- **Standardization:** administer a test to a representative sample of future test takers to establish a basis for meaningful comparison (test it out 1st)
- Should be **reliable:** same results over time
 - Split-half reliability: compare two halves of the test
 - Test-retest reliability: use the same test on 2 different occasions
- Should be **valid:** test is accurate – measures what it is intended to
 - Content validity: test measures what you want it to (an IQ test actually measures IQ)
 - Predictive validity: test is able to accurately predict a trait (high math scores predicts good engineer)

- Standardized tests establish a normal distribution

- Standard deviations are used to compare scores.

- **Standard deviation** measures how much the scores vary from the mean. The percentages stay the same in every curve

Abnormal Behavior

(7 – 9%)

- **Defining abnormal behavior:**
 - Must be deviant, distressful, and dysfunctional
- **Historical causes:** biology, psychological issues, supernatural issues (demons)
- **Medical model:** emphasizes treatment of disorders, as they have a biological origin. Came through the reformation of institutions in U.S. (DORTHEA DIX)
- **Biopsychosocial model:** currently used model – stress biological, psychological, and social causes
- **Diagnosing abnormal behavior:**
 - **DSM:** manual listing all currently accepted psychological disorders. Classifies them based on criteria – provides no explanation of causes or treatments

ANXIETY DISORDERS

Most common disorders in the U.S.

- **Generalized Anxiety Disorder (GAD):** person is generally anxious, all the time, for NO REASON
- **Panic Disorder:** person is prone to frequent panic attacks (feeling like you're having a heart attack). Can come w/ **agoraphobia:** anxiety about being in places you cannot escape (fear of public spaces / people)
- **Phobias:** irrational fear that disrupts your life
- **Obsessive-compulsive Disorder (OCD):** person if overwhelmed with both:
 - **Obsessions:** persistent unwanted thoughts (did I leave the stove on?)
 - **Compulsions:** senseless rituals (hand washing)
- **Post-traumatic stress disorder (PTSD):** characterized by flashbacks, problems w/ concentration, and anxiety following a traumatic event (war, natural disasters)

CAUSES OF ANXIETY DISORDERS:

- **Psychodynamic:** repressed thoughts & feelings manifest in anxiety and rituals
- **Behaviorist:** fear conditioning leads to anxiety, which is then reinforced. Phobias might be learned through *observational learning*
- **Biological:** natural selection favored those with certain phobias (heights). *Twins* often share disorders. Often see **less GABA** in the brain

SOMATOFORM DISORDERS

- Psychological disorders w/ no apparent physical cause
 - **Conversion disorder:** loss of feeling or usage of a limb or body part (sight) – absolutely no physiological cause though
 - **Hypochondriasis:** person interprets normal symptoms as a major disease – must disrupt their life

DISSOCIATIVE DISORDERS

- **Dissociative Identity Disorder:** formerly multiple personalities – person fractures into several distinct personalities who normally have no awareness of each other. **NOT SCHIZOPHRENIA!**
 - Usually caused by traumatic childhood abuse
 - Legitimacy is doubted by some, more common in those w/ good health insurance
 - Treatment involves integration of the personalities
- **Dissociative Fugue:** following a traumatic event a person leaves, taking on a whole new life & personality w/ no memory of the previous one

MOOD DISORDERS

- **Major depressive disorder:** extreme sadness and despair, apathy towards life, w/ no known cause
- **Dysthymia:** milder form of depression, lasts for *years* (Eeyore!)
- **Bipolar disorder:** bouts of severe depression & manic episodes
 - **Mania:** heightened mood, characterized by risky behaviors, fast talking, flights of ideas

- **Seasonal Affective Disorder (SAD):** form of depression that occurs typically winter – found mostly in Northern areas (Alaska,

Ireland) **UNIQUE TREATMENT = LIGHT THERAPY**

CAUSES OF MOOD DISORDERS

- **Biology:** lower levels of serotonin & norepinephrine linked to depression, higher levels of norepinephrine linked to mania. Runs in families suggesting **GENES**. **Twin studies** also support this.
- **Cognitive:** negative thought patterns leads to depression

SCHIZOPHRENIA

NOT MULTIPLE PERSONALITIES! THEY HAVE ONE PERSONALITY!

● **SYMPTOMS**

- **Positive Symptoms** (*not good – means something added*)
 - **Hallucinations:** sensory experiences w/o sensory stimulation (seeing and/or hearing things)
 - **Delusions:** fixed, false beliefs (people are out to get them, grandiose thoughts (I am God))
 - **Disorganized thinking**
 - **Disorganized speech**
- **Negative Symptoms** (*something taken away*)
 - **Flat affect:** lack ability to show emotions
 - **Impaired decision making, inability to pay attention**
- **Catatonia:** become frozen over periods of time (exhibit *waxy flexibility*: can move them into new positions)

● **CAUSES OF SCHIZOPHRENIA**

- **Brain abnormalities:** enlarged ventricles (atrophy), smaller frontal cortex
- **Genetics:** runs in families, MZ twins at higher risk
- **Dopamine hypothesis:** too much dopamine in the brain
- **Diathesis – Stress:** individual has a genetic predisposition, disease must be “turned-on” by environmental stimuli (like stress) – explains why it is most commonly developed during college years

PERSONALITY DISORDERS

- **Marked by disruptive, inflexible, enduring behavior patterns – makes this very difficult to treat!**
 - **Antisocial:** NOT “avoidant of socialization” – more like “anti-society” – disregard for others, manipulative, breaks laws
 - **Borderline:** instable interpersonal relationships & self-image, “I hate you, don’t leave me”
 - **Histrionic:** excessive emotionality & attention seeking (slut disorder)
 - **Narcissistic:** need for admiration & lack of empathy (who cares about everyone else – look at me!)

Treatment of Psychological Disorders (5-7%)

- **PSYCHODYNAMIC APPROACH:** SEE PERSONALITY SECTION
- **HUMANISTIC APPROACH:**
 - **Client-centered therapy:** (developed by CARL ROGERS) techniques include active listening, accepting environment, focuses on *patient growth* (you figure out what needs to change and do it)
- **COGNITIVE APPROACH:**
 - **Rational-emotive therapy:** (developed by ELLIS) techniques include analyzing self-defeating behaviors to change *thought patterns* – and then change behaviors associated w/ said patterns
 - Best for anxiety disorders
 - Very confrontational
 - **Cognitive therapy:** (developed by BECK) illogical thoughts → psychological problems, challenges those thoughts
 - Best for depression
 - Self-directed – you figure out your errors
- **BEHAVIORAL APPROACH (typically used for anxiety disorders / phobias)**
 - **Classical Conditioning:**
 - **Counterconditioning** Little Albert & Watson
 - **Aversive conditioning:** associate an unpleasant experience (e.g. nausea) w/ an unwanted behavior (e.g. drinking alcohol)
 - **Exposure therapy:** slowly expose people to whatever it is that makes them anxious
 - **Systematic desensitization:** associate a pleasant relaxed state w/ gradually increasing anxiety triggering stimuli (create a desensitization hierarchy – ex. List of things about flying that makes you nervous – step through each one till you can do it)
 - **Intensive exposure therapy (Flooding):** force someone to experience the fear (afraid of drowning, throw you in a pool)
 - **Operant Conditioning:** use behavior modification (reward good behaviors w/ token reinforcers). Used in schools, w/ autistic children, etc.
- **OTHER THERAPIES:**
 - **Family therapy:** treats the family as a system, individual behaviors are influenced by family dynamics
 - **Group therapy:** therapy through a group – lets patients see “they’re not alone”
- **BIOLOGICAL APPROACH:** CALLED BIOMEDICAL THERAPIES
 - **Drug therapies (psychopharmacology):**
 - **Anti-psychotics: decrease dopamine:** treats schizophrenia
 - **Side effects:** *TARDIVE DYSKINESIA*: hand tremors (similar to Parkinson’s- due to lack of dopamine), worsening of negative symptoms, extreme sedation
 - **Drug names:** thiorazine, clozapine
 - **Anti-depressants: increase serotonin** through **REUPTAKE inhibition**
 - **Side effects:** drowsiness, anxiety, can increase suicide risk in teens
 - **Drug names:** SSRIs (selective serotonin reuptake inhibitors) like *Prozac, Zoloft, Paxil*. SNRIs (selective norepinephrine reuptake inhibitors) *Cymbalta, Effexor*
 - **Mood stabilizers:** used in the treatment of BIPOLAR disorder : **LITHIUM**
 - **Anti-anxiety drugs:** depress the central nervous system (dangerous in combo w/ alcohol) *Xanax, Ativan*
 - **Electroconvulsive therapy (ECT):** send electricity into the brain to induce minor seizures. Used (*rarely*) to treat

depression (*when nothing else works*). Thought to “reboot” the brain

- **Psychosurgery (frontal lobotomy):** frontal lobe is surgically destroyed. Used to treat depression or violent individuals – almost never used anymore

Social

(8-10%)

SOCIAL THINKING

- **Attribution theory:** we explain others behaviors by crediting the situation or the person’s disposition (they only passed b/c they cheated)
- **Fundamental attribution error (very similar to Actor-observer bias):** tendency for observers to underestimate the importance of the situation and overestimate the impact of personal disposition (that guy cut me off b/c he’s a jerk – not that his wife could be in labor)

ATTITUDES AND ACTIONS

- **Central route to persuasion:** change people’s attitudes through logical arguments and explanations. Leads to long term behavior change
- **Peripheral route to persuasion:** change people’s attitudes through incidental cues (like a speaker’s attractiveness). Leads to temporary behavior changes
- **Foot in the door phenomenon:** complying w/ a small request then leads to going along w/ a larger request (can I have \$5? Yes. Now can I have \$25?)
- **Door in the face phenomenon:** a large request is turned down, when then leads you to be more likely to comply w/ a small request (can I have \$100? Heck no! How about \$20? Okay)
- **STANFORD PRISON EXPERIMENT (ZIMBARDO):** classic “experiment” where individuals were assigned to be guards / prisoners. w/in days they took on their **roles** and went too far. Highly unethical
- **Cognitive dissonance (FESTINGER):** two opposing thoughts conflict w/ each other, causing discomfort (dissonance), which makes us find ways to justify the situation (cult that was going to be abducted by aliens, smokers)

SOCIAL INFLUENCE

- **Conformity:** classic experiment done by **ASCH** – showed lines of different lengths, confederates gave wrong answers to see if others would go along w/ it
 - **Normative social influence:** we conform to gain approval or to not stand out from the group (be part of the *norm*)
 - **Informational social influence:** we conform to others b/c we think their opinions must be right
- **Obedience:** classic experiment done by **MILGRAM**: participants were to “teach” another individual using shocks. 60% of participants would administer lethal shocks to another person simply b/c they were told to

GROUP INFLUENCE

- **Social facilitation:** perform better on simple or well learned tasks in the presence of others
- **Social loafing:** tendency for ppl in a group to exert less effort when pooling their effort together (tug of war)
- **Deindividuation:** loss of self-awareness and self-restraint occurring in group situations that foster arousal and anonymity (mob mentality)
- **Group polarization:** the more time spent w/ a group the more similar (polarized) their thoughts / opinions will become
- **Groupthink:** desire for harmony w/in a group leads to everyone going along w/ the same thinking, ignoring other possibilities or bad ideas
- **Risky shift:** groups make riskier decisions together rather than alone

PREJUDICE

- **Ingroup:** “US” – ppl w/ whom we share a common identity
- **Outgroup:** “them” – ppl perceived as different or not part of the group
- **Ingroup bias:** tendency to favor our own group
- **Scapegoat theory:** prejudice offers an outlet for anger by providing someone else to blame
- **Ethnocentrism:** tendency to see your own group as more important than others
- **Just-world phenomenon:** tendency for ppl to believe that the world is just and therefore ppl get what they deserve (homeless ppl)

AGGRESSION

- **Genetic influence:** runs in families, can breed for in animals
- **Lower serotonin, higher testosterone**
- **Environmental influence:** social learning theory (BANDURA) – observing violence in others makes us more violent for a time
 - **Also:** pollution, crowding, heat, humidity
- **Frustration-aggression hypothesis:** frustration creates anger, which leads to aggression

ATTRACTION

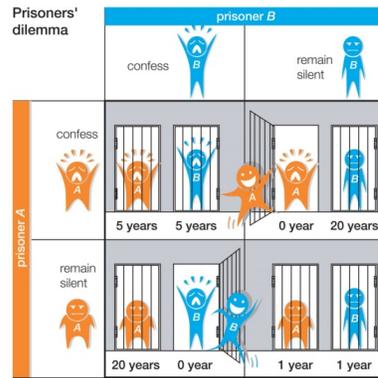
- **Mere exposure effect:** repeated exposure to novel stimuli increases liking of them (the more time you spend around something the more you like it)
- **Physical attractiveness:** pretty ppl are thought to be more credible, less likely to do bad things
- **Similarity:** we prefer ppl similar to us

ALTRUISM

- **Altruism:** unselfish regard for the welfare of others
- **Bystander effect:** the more ppl around the less likely we are to help someone in need
- **Social exchange theory:** social behavior (helping) is an exchange process – aim is to maximize benefits and minimize cost
- **Reciprocity norm:** we give so we can get

CONFLICT

- **Social trap:** conflicting parties pursue their own best interests, which can result in destructive results (prisoner’s dilemma – game theory)



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- **Approach approach conflict:** win – win situation; conflict is which win you have to choose (you can eat out at ONE of your two favorite restaurants – you can only choose one though)
- **Approach avoidance conflict:** win – lose situation; outcome has positive and negative aspects (marriage)
- **Avoidance avoidance conflict :** lose – lose; both outcomes are bad but you have to choose one (clean your room or do your homework)
- **Multiple approach avoidance conflict:** two (or more) win-lose situations; conflict is which to choose (College A is good for your major but no scholarship, College B is bad for your major but has a scholarship)

SOCIAL SELF

- **Self-concept bias:** what we consider important in ourselves is what we consider important in others
- **False-consensus effect:** we overestimate the degree to which everyone else thinks / acts the way we do
- **Self-fulfilling prophecy:** a belief that leads to its own fulfillment (I expect you all to pass, you know this, you study – fulfilling my prophecy)
- **Self-serving bias:** readiness to perceive ourselves as favorably
- **Spotlight effect (self-objectification) :** tendency of an individual to overestimate the extent to which others are paying attention to them

MULTIPLE CHOICE STRATEGIES

- Bubble as you go – you don't want to run out of time!
- Answer EVERY QUESTION – you don't lose points for guessing
 - If you run out of time pick either B, C, or D and bubble straight down. DO NOT ZIG ZAG
- If you don't recognize an answer choice – it probably IS NOT THE ANSWER

ESSAY WRITING STRATEGIES

ANSWER THE STUPID QUESTION!

- Don't write in bullet points!
 - No Fluff – no transitions – no topic / thesis statements
- Be specific and apply the answer to the prompt

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