

Psycho-The study of mental and logy: behavioural processes theoryuses theories to explain driven: behaviour based on research empirical: multi-explained by the brain, the level: individual, and the group contexpsychological perspectives tual: continue to evolve, which impacts work in psychology

Theories		
Struct- uralism	Founded by Wilhelm Wundt	Focus on human cognitive behaviour
Functi- onalism	Founded by William James	Focus on function of behaviours
Psycho ana- lysis	Founded by Sigmund Freud	Focuses on the study on the human mind (subconscious)
Behavi-	Founding	Focus on the

concept of

observable

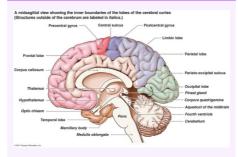
behaviour

by John

Watson

ourism

- Father of experimental psychology
- Established the first psychology lab in 1879 Germany
- Used empirically-driven experiments
- Studied consciousness
- Voluntarism behaviours are motivated
- Developed structuralism



Brainstem (Medulla) = breathing & heartbeat

Reticular formation = arousal, sleep, filters stimuli

Cerebellum = voluntary movement limbic system (Hippo HAT)

- HIPPOcampus = memory
- Hypothalamus = hunger, thirst, sexual behavior
- - pituitary gland = hormones
- Amygdala = fear, anger
- Thalamus = touch, taste, sight, hear

- Established the first psychology lab in America at Harvard University
- Wrote the first psychology textbook "Principles of Psychology" (1890)
- Functionalism sees consciousness as a fluid stream rather than fixed elements. uses empirical methods that focuses on the cause and effects of behaviour

Emphasis was also - placed on studying animals, children, and individuals with mental disorders

Indepevariable that is being manipundent lated variable Dependent variable that is being variable measured/ changed by the

independent variable

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Operation- alize/Ope- rational definition	how researchers decide to measure our variables
Population	The entire group that is of interest to researchers
Sample	A portion of the population that is selected for the study, Must represent the population
Random selection	everyone in the population of interest has an equal chance of selection
Sampling bias	selecting a group that is likely to confirm your hypothesis

Therapy	
Counterco- nditioning	Conditioning a new response incompatible with old
Systematic desensiti-zation	Relaxation replaces anxiety or systematically
Flooding	Go straight into the fearful situation. CR is extinguished
Aversive condit-	Unpleasent responce associated (alcohol + drug creating nausea UR & PR)



By Msnoddon

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Therapy (cont)

Token economy

Given token (poker chip) when desired behaviour preformed.

Tokens cashed on for tangible

rewards

Nerves



OVERVIEW OF THE NERVOUS SYSTEM AND THE NEURON

Mile there are two main learning targets in this section of the unit, they encompass a vast amount of information. The good news is that most of us have covered these topics in other coursework, such as Biology or natomy and Physiology.

First, be prepared to describe the nervous system, the subdivisions, and the functions of the components of each of these.

Next, Identify the basic processes and interaction of systems that are the foundations of the biological basis of phinnons in other words, you know the "parts," and the main purpose, thow does that "part import our behavior, both when it is functioning property, and otherwise? Although dysfunction will be delived into more intensively in later units, it is can be key if the free-sporse question (RRQ) requires you to explain the biological easion that a behavior, or disorder, could be occurring continued on next page.

of transmission of a signal within and between neurons. There are three phases of communication within a neuron. The first is action potential, the impulse when a neuron fires. There is a brief refractory period when the neuron is recharging, followed by the resting potential, when the recharged neuron is awaiting the next action potential to be neuron size and potassismin help after the transmission.

Therapy

Петару	
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The Goals of Psychology

- Describe
- Explain
- Predict
- Control

Maslows Hierarchy of Needs



Maslow's hierarchy of needs

Research Method

independent variable = cause
experimental group = exposed to cause
control group = not exposed to cause
dependent variable = effect (measures how
subjects behave)
blind study = subjects don't know if they get
drug or placebo
double-blind study = subjects & researchers
don't know who gets drug/placebo
correlation coefficient = describes strength
of relationship

Nature V.S Nurture

Nature Genetics determine our

behaviour

Nurture Our eviroment and life upbringings determine our behaviour

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Limbic System

Hippoc- (campus = learning/memampus ories)

Hypoth- (FFFF = Fight, Flight, Feed,
alamus Mating)

Amygdala (emotions)

Thalamus (Tell 'em = senses (except for

smell))

Memory Terms

Memory rems		
	Recall	A measure of memory in which the person must retrieve information learned earlier (fill in blank)
	Recogn- ition	A measure of memory in which the person need only identify items previously learned (multiple choice)
	Relearning	A measure of memory that assesses the amount of time saved when learning materia for a second time
	Explicit	memory of facts and experi-

for a second time

Explicit memory of facts and experimemory ences that one can consciously know and "declare"

Implicit retention independent of memory conscious recollection

Procedural the gradual acquisition of skills as a result of practice, or "knowing how" to do things

Eposodic Memory of personal experimemory ences (most common impair-

ment)

C

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preformed. Tokens cashed on

for tangible rewards

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Branches of Psychology		
Clinical counselling and psychology	Therapists	
Academic psychology	Professors, researchers	
Applied psychology	Work in schools, marketing firms, research institutions, and so forth, applying psychological skills to real-life situations	

Sensory Mo	emory
Implicit (proce- dural)	being aware of how to do something without consciously knowing how
Explicit (decla- rative)	being aware of what you know
Ionic	Brief photographic memory of an image
Echoic	brief memory of an auditory stimulus
Flashbulb	vivid memories of emotionally charged events
Working	short-term memory
Psychologic	cal Disorders - Origins
Medical	caused by biological reasons

	3
Working	short-term memory
Psycholog	gical Disorders - Origins
Medical	caused by biological reasons (injury, genetics, drugs)
Psycho- analytic	childhood conflicts, unconscious, misdirected anger

patterns of thinking are
abnormal, success because of others (luck, generous), fail because of self (stupid, no talent)
problem behavior is the problem, some type of classical condit- ioning or reinforcement has occurred for behavior to continue

has occurred for behavior to
continue
Jean Piaget
Cognitive Development
Sensorimotor stage (0-2) can't differentiate self from environment
Preoperational (2) stable world, language, symbols, fantasy/reality, object perman- ence, no logical reasoning, lack conser- vation, egocentric
Concrete op. (7-11) logic rules, concrete, cause/effect, role taking
formal op. (12-) logic of science, abstract thinking, metaphors
Assimilation = interpret sights based on current understanding

Disequilibrium = changes in child's unders
tanding of world

Equilibrium = balance

Accommodation = changed understanding

Brain	
Frontal	Responsible for: control thinking, planning, organizing, problem-solving, short-term memory and movement.
Parietal	Responsible for: interpret feeling, known as sensory information. The lobes process taste, texture and temperature.
Temporal	Responsible for: process information from your senses of smell, taste and sound. They also play a role in memory storage.
Occipital	Responsible for: process images from your eyes and connect them to the images stored in your memory. This allows you to recognize images.

Lobes of the brain



Edward Titchner (1867-1927)

- Introspection: careful, reflective and systematic observation of the details of mental processes
- Structuralism looks at the elements of consciousness, the goal was to describe observable mental processes rather than to explain, predict, or control
- The principle was rejected by other psychologists, but some elements survived:
- Psychologists should focus on observable events



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Edward Titchner (1867-1927) (cont)

 Scientific study should focus on simple elements as building blocks of complex experience

Gestalt Psychology

- States that consciousness cannot be broken down into elements
- We perceive things as whole perceptual units
- The whole is greater than the sum of its parts

Sigmund Freud (1856-1939)

- Believed that behavior was influenced by our unconscious desires and conflicts
- Psychoanalysis aims to resolve unconscious conflicts

Important Psychologists					
Edward Thorndike	believed that studying animals will help understand human behaviour				
Ivan Pavlov	classical conditioning; associating a stimuli to a response				
John B. Watson	"Little Albert Experiment;" proving that people can be classically conditioned				
B.K. Skinner	operant conditioning; positive/- negative reinforcement to shape behaviour (increase/de- crease certain behaviours)				
Albert Bandura	social observation; observing and mirroring behaviour is a way of learning				

Case studies	An intensive study of one person	Advant- ages: Helps develop early ideas about phenomena	Disadvan ages: Research bias, You cannot generaliz your resu to all people	RIGHT-BRAIN FUNCTIONS Art awareness Creativity Imagination Intuition Insight Holistic thought			LEFT-BRAIN FUNCTIONS Analytic thought Logic Language Reasoning Science and math Written Numbers skills Right-hand control
Natura- listic Observ- ation	observing natural behaviours	Advant- ages: more reflective on actual human behaviour	when the are aware that they	Freud - Ps Freud - Ps 7 2. Anal sta y 3. Phallic 4. Latency 15. Genital	age age stage / stage	Ages 0-1 Ages 2-3 Ages 3-5 Ages 5 - pul Ages beyon	•
Surveys	questionn- aire/inte- rview	Advantages: Gather information that can be obtained from other methods, May be able to measure relationship strength between variables	Disadvan ages: Participal bias, Direction relationsh between variables unknown	Sensory nt Short of term nip Long	senses d (working) enough t	awareness o letect) keep inform to solve probl d storage	nation long

Left or Right Brain



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