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Motivation

approach motivation propels engagement in behaviour whilst avoidance motivation repels behaviours **Historical Aproaches** - Frued = Id (unconscious, irrational), Superego (preconscious, morally aware), Ego (conscious, rational, compromises) - Thematic Apperception Tests (TATs) measure unconscious desire **Drive Reduction Theory** - 1940s - Hierarchy of drives - Psychological homeostasis Yerkes-Dodson Law - 1908 - Arousal levels affect drive strength - Easy tasks require more arousal - Under arousal = stimulus hunger Maslow's Hierarchy of - Physiological Needs (breathing, food, etc.) Needs - Safety and Security (income, health, family stability) - Love and Belonging (friendship, intimacy) - Self Esteem (confidence, achievement, sense of uniqueness) - Self Actualization (purpose, creativity, spontaneity) Sexual Motivation - Libido - testosterone and protein (DRD4) related to dopamine - Men desire sex more than women - Desire phase, Excitement/plateau phase, Orgasm phase, Resolution phase - healthy people ages over 70 are still sexually active **Goal Setting** Specific, Measurable, Action-orientated, Realistic, Time dependant Primary (biological) motives incl. thirst, hunger, sleep, oxygen, sex, temperature regulation, waste elimination Secondary (social) motives incl. achievement, aggression, power, autonomy, curiosity, play, affiliation **Bio-psychology of Eating** Impacts on Society By 2025 - 1 in 3 Australian adults will be obese poor health --> disease and illness EDs are costly and difficult to treat

Leading cause of preventable death in the US (incl. alcohol & smoking)

Processed food manufacture has a turnover of around \$74 Billion/year

Food exports are worth \$30 Billion/year - 11% of our total exports

Fast food sales alone are worth \$17 Billion/year

		Cont	rols of Food Inta	ke
Body (biological) Environment (e		external forces) Brain (biological and physiological)		jical and physiological)
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Bio-psychology of Eating (cont)		
energy levels - energy stored short term as glucose and long term as fat - fat cells secrete leptin, more leptin = appetite suppression	food - seeing food causes a cephalic phase response (salivation, insulin release etc) - In the US 4.2 Billion dollars is spent per year advertising just fast food	neurochemicals - dopamine and seretonin suppress appetite - leptin> CRH (corticotrophin releasing hormone) = suppressed appetite - Ghrelin> NY (neuropeptide Y) = increasing appetite
sensation - <i>sensory specific satiety drives diet variety and</i> <i>slows intake near end of a meal</i>	time and place - <i>eating is socially acceptable in</i> <i>most times and places</i> - <i>routines can trigger hunger</i> <i>cues</i>	 brain structure Hypothalamus • Ventromedial nucleus (stop eating) • Lateral hypothalamus (start eating) § CRH and NY exert their effects here Cortical Regions § Frontal (impulsivity) § Insula (interoception) Limbic system § Hippocampus (memory) • Eating and Henry Molaison
 signals from digestive organs stomach is distended or empty gut and stomach taste receptors Stomach is emptying its nutrient rich content (chyme) into the small intestine gut bacteria detect fat content signals communicated through Nerves (e.g., vagus), Hormones (e.g., CCK & ghrelin), Nutrients (e.g., blood lipoproteins) 	 people and leisure people eat more when with others TV can increase food intake by association and by distraction 	conscious/unconscious - brain probably plays the most cruical and larger part in food intake
	portion and plate - <i>portion sizes have grown over tir</i> - <i>larger plate =larger food intake</i>	ne
	Eating Disorders	
1. Anorexia Nervosa, 2. Bulimia Nervosa, 3. Binge E Other Specified Feeding or Eating Disorder (O.S.F.	- · · · ·	Restrictive Food Intake Disorder (A.R.F.I.D.), and 5.

EDs are internalizing disorders characterised by specific negative thought patterns

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Bio-psychology of Eating (cont)

80% of ED patients have another internalizing disorder

only 40-60% of ED patients recover

Normal BMI is 18.5-25; 25-30 is overweight and 30+ is obese around a billion people are experiencing starvation

--> leads to/stimulates

Psychological A	Approaches	Learning			
Structuralism	The analysis of the mind in terms of it's basic elements Studied the basic elements of consciousness: sensations introspective method 1879: Wundt and Titchener; first Experimental Psychology Lab	Noticing and Ignoring of events	Sensitization and Habitu- ation	repeated mild stimulus> habituation increasing intensity of stimulus> sensitisation	
Functionalism	understanding the adaptive purpose of our thoughts, feelings, and behaviour based on evolution William James (1842-1910)	Knowing what events Signal	Classical Conditioning (Contingency Theory by	<i>Pavlov's Dogs</i> US = UR CS + US = UR CS = CR	- Delayed condit- ioning (CS first overlaps with US) - Trace condit-
Behaviourism	The proper subject matter of psychology is behaviour, not unobservable inner consciousness classical and operant conditioning		Robert A. Rescorla)	<i>must be Neutral</i> <i>Stimulus</i> phobias?	ioning (gap between US and CS) - Simultaneous conditioning (US and CS at the same time) - backward condit- ioning (US before
Cognitivism	Studies mental processes, including perception, thinking, memory, and judgment Thinking has a powerful influence on behaviour the current dominant framework that has led to cognitive neuroscience				
Psycho-	Freud				CS)
dynamic perspective	large influence on therapy methods relationship between conscious and unconscious mental processes				
Principles of Sc	sientific Thinking				
extraordinary cl	laims require extraordinary evidence				
claims must be	testable				
occam's razor ((parsimony/simplicity)				

replicated

exclude rival hypothesis

correlation does NOT equal causation



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Learning (cont)				Learning (co	ont)	
Learn	Operant	Biphasic	stimulus ->	What is NOT	Flearning?	
Positive and Negative	Condit- ioning	Emotional Reactions	behaviour -> reinforcement	Instincts, ref or maturatio		anges due to fatigue, drugs, illness,
Conseq- uences of		(Solomon and Corbit (1974))	- Positive Reinfo- rcement (sticker +	Learn by as	sociation: Aristotle, Joi	hn Locke and David Hume
Behaviour		Responce A decreases and	effort = more effort)	Acquisition -	Extinction - Spontane	ous Recovery
		responce B increases <i>Addiction</i>	- Negative Reinfo- rcement (no strength + effort =	Stimulus Ge Stimulus Dis	eneralisation = transfer scrimination	of knowledge
		Compensatory- Response Model	more effort) - Positive	History of Pa	sychology	
		Siegel, Hinson,	Punishment			
		Krank & McCully	(strength +	1500 BCE	Egyptian Scrolls	
		(1982) context specific	misbehaviour = less misbeh-	700 BCE	Pharaoh	
		E.L. Thorndike (1874-1949) Law	aviour) - Negative	600-400 BCE	Ancient Greece	4 humours?
		of Effect	Punishment (no	1649	René Descartes	mind-body problem
		Premack Principle = Grandma's Rule	sticker +misbe- haviour = less	late 1700s	Frans Anton Mesmer	hypnosis
			misbehaviour) *Partial Interm- ittent Reinforce-	early 1800s	Franz Joseph Gall and Joseph Spurzheim	phrenology
			ment, Fixed Ratio,	1850	Gustav Fechner	psychophysics
			Variable Ratio,	1859	Charles Darwin	On The Origin Of Species
N-C	Ohaanaa		Fixed Interval, Variable Interval)	1875	William James	creates small psych lab at Harvard
Notice aspects of Other's	Observ- ational Learning	local/stimulus enhancement (look where others	-attention - retention - reproduction	1879	Wilhelm Wundt	establishes first formal psycho- logical lab
behaviours	g	are looking)	- motivation	1889	Sir Francis Galton	concept of correlation
		more modelling		1890	William James	Principles of Psychology
		with more approp- riateness and similarity of		1900	Sigmund Freud	The Interpretation of Dreams, landmark book in the history of psychoanalysis
		subject Albert Bandura		1905	Alfred Binet and Henri Simon	first intelligence test
				1907	Oscar Pfungst	counting horse
				1910	Ivan Pavlov	classical conditioning
				1911	E. L. Thorndike	operant conditioning
				1913	John B. Watson	psychology as behaviour
				1920s	Gordon Allport	personality trait psychology

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History of I	Psychology (cont)	
1920s	Jean Piage	The Child's Concept of the World
1924	Hans Berger	Human EEG
1935	Kurt Koffka	Principles of Gestalt Psychology
1938	B. F. Skinner	The Behaviour of Organisms
1949	University of Colorado at Boulder	Scientific Clinical Psychology Training
1952	in France	Antipsychotic drug Thorazine
1953	Francis Crick and James Watson	DNA model, REM discovered
1954	Paul Meeh	Clinical vs.Statistical Prediction
1958	Joseph Wolpe	<i>Psychotherapy by Reciprocal</i> <i>Inhibition</i> & behavioural therapy
1963	Stanley Milgram	lab studies of obedience
1967	Ulric Neisser	Cognitive Psychology
1974	Elizabeth Loftus and Robert Palmer	memory & Positron emission tomography (PET)
1977		Statistical Meta-analysis
1980		Diagnostic and Statistical Manual of Mental Disorders, Third Edition (DSM-III)
1990	Thomas Bouchard and colleagues	Minnesota Twins Study
1992	Ogawa and Kwong	fMRI BOLD signals
1995	Task force of Division 12 (Society of Clinical Psychology)	list of empirically supported therapies
2002	Daniel Kahneman	first PhD psychologist to win nobel prize
2012		Human Brain Project established (Lausanne, Switzerland)

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- Charcot (in France)
- Janet (1859-1947)
- Morton Prince
- Freud
- Murray