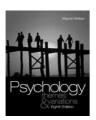
Psychology 101: **Motivation & emotion**



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2012

Reading

Weiten
(Chapter 10):
Motivation and emotion



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Overview

- 1. What is motivation?
- 2. Motivation theories
- 3. Eating motivation
- 4. Sexual motivation
- 5. Achievement motivation
- 6. Emotion
- 7. Summary & conclusion

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What is motivation?

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What is motivation?

What made you get out of bed this morning?



What is the cause of behaviour?

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What is motivation?

- What makes us <u>act</u> the way we do?
- Theorised <u>cause</u> for
 - starting,
 - directing,
 - maintaining and
 - stopping

behaviour.

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What is motivation? Needs or desires that energise and direct behaviour. Human behaviours are motivated by a variety of needs, including biological, psychological and social needs.	
Five functions of motivational concepts (Gerrig et al., 2008)	
1. Relate biology to behaviour	
2. Account for behavioural variability	
3. Infer private states from public acts	
4. Assign responsibility for actions	
Explain perseverance despite adversity	
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Motivation theories

Motivational	theories	and
cond	epts	

- Motives needs, wants, desires leading to goal-directed behaviour
- Evolutionary theories maximizing reproductive success

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Sources of motivation

- **■** Drive theories
 - Internal states that arise in response to a disequilibrium; we seek homeostasis
- Incentives
 - External stimuli or rewards that motivate behaviour
- Instincts & evolutionary theory
 - Pre-programmed tendencies which maximise reproductive success

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Sources of motivation

- Expectations & cognitive approaches
 - Motivation arising from subjective interpretations of reality.
- Social learning theory
 - Role of observation and the imitation of behaviours observed in others.
- Hierarchy of needs
 - Organisation of physiological, psychological, social & higher needs

Drives and incentives

- Physiological needs create aroused state of tension (drive).
- This **drive** motivates an organism to satisfy the need (Hull, 1951).



Need (e.g., for food, water)		Drive (hunger, thirst)	Drive-reducing behaviours (eating, drinking)
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Drives and incentives

- The aim of **drive reduction** is to restore equilibrium or homeostasis.
- Homeostasis: tendency to maintain a balanced or constant internal state.



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Incentives

- Positive or negative environmental stimuli that motivate behaviour.
- We are pushed by internal drives, whereas we are pulled by incentives.
- What if we experience both an internal push and an external pull?
 - ■We are **driven** more strongly.

Instincts & evolutionary theory Instinct:

- A complex behaviour which must have a fixed pattern throughout a species that is not learned (Tinbergen, 1951)
- e.g., sexual arousal, aggression, sleep

Evolutionary theory:

■ Emphasises the influence of biology on human behaviour and deemphasises the importance of environmental and cultural factors.

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To what extent is human behaviour instinctual?

- James (1890): humans are more reliant on "instinct" than other animals
- Freud (1915): human drive states, or psychic energy, arise from life and death instincts.
- However, enormous variation in behaviour exists across cultures and between individuals, undermining the argument that human behaviour results greatly from inborn instincts.

Expectations and cognitive approaches

- Expectation: An idea about the future likelihood of getting something that is wanted.
- Significant human motivation derives from the individual's subjective interpretation of reality.

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Social learning theory

Rotter and others hypothesised that the probability of engaging in a given behaviour is determined by:

- Expectation of goal attainment following the activity
- Personal value of that goal to the individual
- A discrepancy between expectations and reality can motivate the individual to perform corrective behaviour.

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Attributions (Fritz Heider)

Proposed that behaviours can be attributed to:

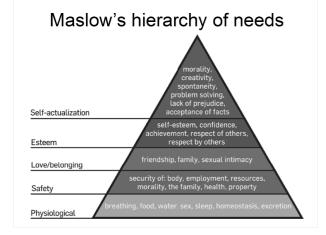
- Dispositional forces (intrinsic), such as intelligence, personality, or effort
- Situational forces (extrinsic), such as the task, situation, influence of environment and other people

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Maslow's hierarchy of needs

- Abraham Maslow (1970) suggested that human needs can be organised hierarchically.
- Physiological needs (e.g., breathing, hunger) come first
- Then **psychological needs** (e.g., self-esteem) are pursued.



Motivation of hunger and eating

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Regulation of food intake

Requires that organisms be equipped with mechanisms that:

- ■Detect internal food need
- ■Initiate & organise eating behaviour
- Monitor quantity & quality of food eaten
- Detect when sufficient food has been eaten & stop eating

Motivation of hunger & eating: Biological factors

- Brain regulation
 - Lateral and ventromedial hypothalamus
 - Paraventricular nucleus
 - Ghrelin –neurotransmitter and hormone
- Glucose & digestive regulation
 - Glucostatic theory
- Hormonal regulation
 - Insulin and leptin

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Motivation of hunger & eating: Peripheral responses

- Walter Cannon (1934) proposed that gastric activity in an empty stomach was the basis for hunger, an unsupported position on discovery that stomach contractions are not a necessary condition for hunger.
- **Gastric distension** caused by ingestion of food causes the individual to stop eating.

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The brain and hunger

- The brain monitors the body's internal state.
- Experience of "hunger" is controlled in the hypothalamus.





The brain and hunger

There are two important hypothalamic centres which help control eating:

- Lateral hypothalamus (stimulates hunger)
- Ventromedial hypothalamus (depresses hunger)

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Motivation of hunger & eating: Environmental factors

- Learned preferences and habits
 - Exposure
 - When, as well as what
- Food-related cues
 - Appearance, odour, effort required
- Stress
 - Link between heightened arousal/negative emotion and overeating

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Eating and weight: The roots of obesity

- Evolutionary explanations
- Genetic predisposition
 - Body Mass Index and adoption study
- The concept of set point/settling point
- Dietary restraint
 - Mortality rates among people who are moderately overweight are not elevated in today's population

The physiology of hunger	
What we eat and when we eat is influenced by body chemistry and environmental factors.	
Carbohydrates — ↑ Serotonin — Calming	
■ Food aversions may develop via classical conditioning.	
	-
Set point theory	
 A weight that the body seeks to maintain by influencing an individual's basal metabolic rate (body's resting rate of energy expenditure) and desire to eat. Individuals differ in their set points 	
The psychology of hunger	
 There are other influences on hunger. These include the memory of our last meal Due to difficulties with retention, amnesia patients eat frequently if given food (Rozin et al., 1998). 	

Eating disorders



- 10 x more likely in females
- More likely in Caucasians more than African Americans.

Eating disorders & body image

- Anorexia Nervosa: weighs less than 85% of expected weight however stills feel fat and continues to starve.
- Bulimia Nervosa: binges periods of intense, out-of-control eating - followed by excessive exercise, vomiting, fasting or laxative use.
- Various contributing factors have been identified for both disorders (genes, familial influences, low self-esteem, societal pressures).

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Summary of motivational influences on eating behaviour

- Biological: stomach pangs, appetite hormones, blood glucose/fat, role of hypothalamus, set point
- Psychological: memory of last meal, mood, sight and smell of food
- Social-cultural: taste preferences, cultural ideals of thinness

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Sexual motivation

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Non-human sexual behaviours

- Androgens
- **■**Estrogen
- **■**Pheromones



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Human sexual motivation and behaviour: Determining desire

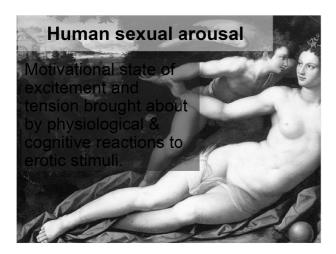
- Hormonal regulation
 - Estrogens
 - ■Androgens
 - ■Testosterone
- Pheromones
 - ■Synchronised menstrual cycles

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Human sexual motivation and behaviour: Determining desire

- Aphrodisiacs
- Erotic materials
- Attraction to a partner
- The Coolidge effect
- Evolutionary factors

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The psychology of sex

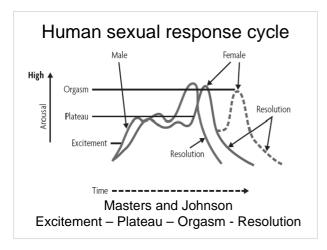
- External stimuli, such as sexually explicit materials, can trigger sexual arousal in both men and women.
- Imagined stimuli can influence sexual arousal and desire. People who have a spinal cord injury and experience no genital stimulation can still experience sexual desire (Willmuth, 1987).
- Dreams are also associated with sexual arousal.

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Masters and Johnson (1966, 1970)

- Men and women have similar patterns of sexual response.
- Women are more variable, tending to respond more slowly but often remaining aroused longer.
- Many women can have multiple orgasms, while men rarely do so in a comparable time period.

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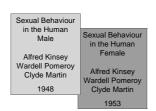
The physiology of sex

Masters and Johnson (1966) described the human sexual response to consist of four phases:

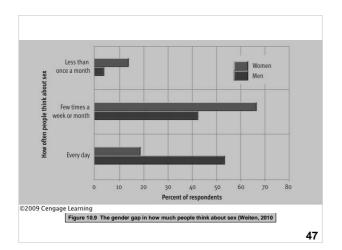
Phase	Physiological Response
Excitement	Genitals become engorged with blood. Vagina expands, secretes lubricant. Penis enlarges.
Plateau	Excitement peaks as breathing, pulse and blood pressure continue to increase.
Orgasm	Contractions all over the body. Further increase in breathing, pulse and blood pressure. Sexual release.
Resolution	Body returns to its unaroused state. Male goes through refractory period.

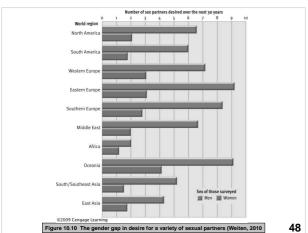
Evolution of sexual behaviours & norms

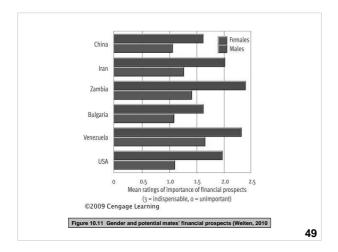
- Evolution of sexual behaviours
 - ■Parental investment theory
 - David Buss
- Sexual norms
 - Alfred Kinsey
 - ■Sexual scripts
 - Date rape

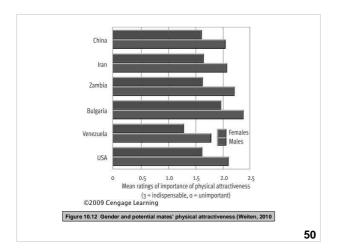


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Sexual disorders & therapy

- Problems which consistently impair sexual functioning, e.g.,
 - Erectile dysfunction (men)
 - Premature ejaculation
 - ■Orgasmic disorders
- Treatment for sexual disorders includes behaviour therapy which assumes that people learn and can modify their sexual responses.

Ado	lescence	e & sex	kuality
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- Great variability across cultures (and across time) in terms of sexual activity during adolescence.
- Factors that reduce sexual activity during adolescence include high intelligence and religiosity (among others).

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Sexual orientation

- Sexual orientation refers to a person's preference for emotional and sexual relationships with individuals of the same sex, the other sex, and/or either sex.
- Homosexual Bisexual Heterosexual (a continuum)







Bisexual

Heterosexua

Theories explaining homosexuality

- Environmental
- Biological
- Interactionist

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- Nature and nurture of homosexuality
 - Daryl Bem
- Society and homosexuality
 - ■Homophobia

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Homosexuality & biological factors

Homosexuality is more likely based on biological factors like differing brain centers, genetics, and parental hormone exposure rather than environmental factors.

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Homosexuality & biological factors

- Prenatal hormones may affect sexual orientation during critical stages of fetal development (between the 2nd and 5th months after conception).
- Evidence suggesting a genetic influence stems from family and twin studies and from fruit fly research where sexual attraction can be genetically manipulated.

Homosexuality & biological factors
Brain structures: In homosexual men
 the size of the anterior hypothalamus is smaller (LeVay, 1991) and
• the anterior commissure is larger (Allen & Gorski, 1992). Anterior Commissure
Anterior Hypothalamus
Summary of influences on
sexual motivation
Biological: i.e. sexual maturation, sex hormones, sexual orientation
■ Psychological: i.e. exposure to
stimulating conditions, sexual
fantasies
Social-cultural: i.e. family, societal and personal values,
religion, cultural expectations
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Achievement motivation

Achievement motivation

- Achievement motive = need to excel.
- Desire for accomplishment, mastery of tasks, people or ideas, attaining a high standard.
- High in achievement motivation:
 - Work harder and more persistently
 - Delay gratification
 - Pursue competitive careers
- Situational influences on achievement motives

Achievement motivation	
 Henry Murray: Basic need to strive for achievement of goals David McClelland: nAch (Achievement), nPow (Power), nAff (Affiliation) Thematic Apperception Test (TAT) 	
62	
Thematic Apperception Test Tell a dramatic story ncluding what: 1. led up to the event 2. is happening at the moment 3. the characters are feeling & thinking, & 4. the outcome of the story was	

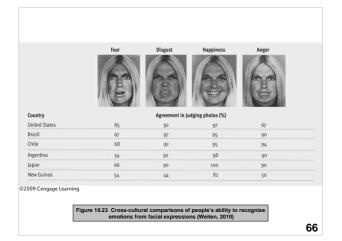
Elements of emotional experience

- **■** Cognitive
 - Subjective conscious experience
 - Positive psychology
- Physiological
 - ■Bodily (autonomic) arousal
- Behavioural
 - Characteristic overt expressions

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Culture and elements of emotion

- Cross-cultural similarities found in cognitive and physiological elements of emotional experience
- Also many cultural disparities in how people perceive, think about, and express their emotions
 - socially engaging emotions
 - socially disengaging emotions



Theories of emotion ■ James-Lange ■ Feel afraid because pulse is racing **■** Cannon-Bard ■Thalamus sends signals simultaneously to the cortex and the autonomic nervous system 67 Theories of emotion ■ Schacter's Two-Factor **Theory** ■ Look to external cues to decide what to feel **■** Evolutionary theories ■Innate reactions with little cognitive interpretation 68 **Core emotions** ■ Fear ■ Joy **■** Surprise ■ Anger

■ Disgust

■ Interest

- **■** Contempt
- Shame
- Sadness

Happiness

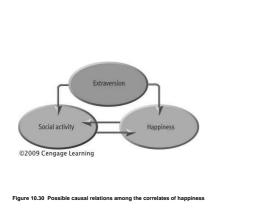
- Common sense notions incorrect income, age, parenthood, intelligence, and attractiveness largely uncorrelated
- Physical health, good social relationships, religious faith, and culture modestly correlated
- Love, marriage, work satisfaction, and personality strongly correlated

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Subjective well-being

- Objective realities not as important as subjective feelings
- When it comes to happiness everything is relative
- People are surprisingly bad at predicting what will make them happy
- People often adapt to their circumstances
 - Hedonic adaptation

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Summary & Conclusion

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Conclusion

- We have considered motives underlying hunger, sexual behaviour and personal achievement.
- While they are all different, each is unified by their effect: the energising and directing of behaviour.
- We have also considered elements of **emotion** (cognitive, physiological, and behavioural).

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You should now be able to...

- 1. Describe five functions of motivational concepts
- 2. Explain these sources of motivation: drives, incentives, instinct, and expectations
- 3. Compare and contrast James' and Freud's conceptions of instinctual behaviours

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You should now be able to	
4. Explain Maslow's hierarchy of needs5. Explain the brain, physiological, and cultural pathways and mechanisms for the regulation of hunger and eating	
6.Describe the four phases of human sexual response for males and females (Masters & Johnson);	
	76
You should now be able to	
7. Explain the evolution of sexual	
behaviours and sexual norms, including the different reproductive	
strategies that may be employed by	
males and females (Parental Investment Theory - Buss)	
8. Identify the nature and nurture	
aspects of homosexuality	
	77
You should now be able to	
	_
Explain the concept of need for achievement and discuss how it relates to motivation	
10. Explain cognitive, physiological, and behavioural aspects of emotion	
and benavioural aspects of emotion	-

Next unit on this topic: Motivation & Emotion (7124/6665)

- 3rd yr psych unit, Semester 2
- Prereqs: Psy 101 & Psy 102
- ~6 weeks each on Motivation and Emotion

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References

- Gerrig, R. J., Zimbardo, P. G., Campbell, A. J., Cumming, S. R., & Wilkes, F. J. (2008). Motivation (Ch 11). *Psychology and life* (Australian edition). Sydney: Pearson Education Australia.
- Weiten, W. (2010). Motivation and emotion (Ch 10). *Psychology: Themes and variations* (8th ed.). Belmont, CA: Wadsworth Cengage Learning.

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