Introduction to Psychology

Introduction to the Human Sciences
Lecture 2
05 April 2019

Focus of Four Sessions



Introduction



Perception



How we do study mental processes



Personality and Social Psychology

Introduction

- What is the difference between Psychology and Common Sense? How they are related?
- What is Psychology?
- What are the goals of Psychology?
- What are the various levels of psychological analysis?
- What are the different types of Psychologists?
- What are two great debates of Psychology?
- What are the applications of Psychology?



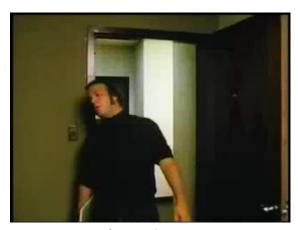




If such grouping leads to bad decision, why don't we quit?

Conformity, but is always bad?

Did conformity influence the perceptual ability as well?



Asch Experiment

05-04-2019

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What are the various levels of psychological analysis? Biological Mental/Cognitive/Behaviour/ Individual Social level

How biology give is associated with Psychology?

FOCUS- Genes, biochemistry, brain system, neurological and physiological

STUDY -

- How does social media impact brain development?
- •Genetic influence on social behaviour
- Neural responses to online peer influence and norm violation
- Are there differences in neurotransmitters when people engage in social ostracism?

How an individual thinks, perceives, attends, and engages in behaviour?

FOCUS - Perception and Cognition, behaviour, individual differences

STUDY -

- How does online and offline social behaviour influence self and others perception?
- How does online and offline social engagement influences mentalizing (predicting people's motivation, response, feedbacks etc.)?
- How stereotyping influences perception and action of others?
- How and why do different people respond to online/ offline/ and /or both engagements?

How an individual thinks, perceives, attends, and engages in behaviour?

FOCUS – society and culture shape one's mind

STUDY -

- How do people differ in their online and offline behaviour?
- Do offline and online social engagement differ in normative influence or norm of reciprocity?
- How social media perpetuate stereotyping?
- Comparison b/w online and offline social engagement on social ostracism

Stereotyping: Automaticity than Controlled

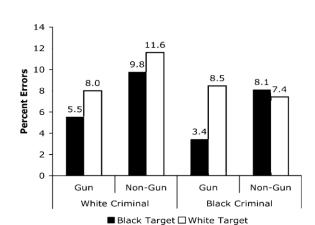


Figure 1. Frequency of errors as a function of Article Condition, Object Type, and Target Race, Study 1









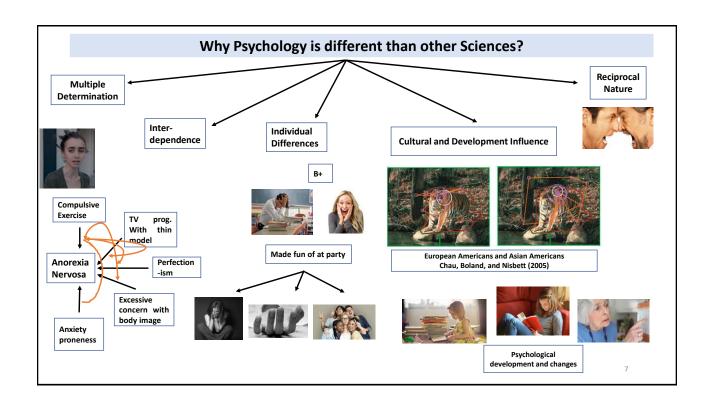
- Implicit Association Tests shows 70% of white Americans find it easier to associate white faces with positive concepts such as "peace" and black faces with negative concepts such as "Bomb" than the other way around
- Surprisingly, 40% of African American show the same pattern

Correll et al., 2002

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Perception and Cognition Group, CogSci, KCIS, IIIT-H

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Case Study - Facilitated Communication







EXTRAORDINARY CLAIM

Is the evidence as strong as the claim?

REPLICABILITY

Can the results be duplicated in other studies?

RIVARLY HYPOTHESIS

Have important alternative explanations for the findings been excluded?

CORRELATION VS. CAUSATION

Can we be sure that "A" causes "B"?

FALSIFIABILITY

Can the claim be refuted?

AIM

Everyday Thinking -

- Inaccurate observations lacks validity and reliability
- Overgeneralization
- Selective observation

Scientific Thinking

- Reduce uncertainty and randomness
- · Reduce Error
- Improve Predictability
- Causality and Probability

Why is this so challenging?

- Complex System 86 billion neurons and how it leads to thinking, emotion, action We still do not know
- Variability So much variability that we differ in terms of finger prints; culture, knowledge, age, experience etc influences and shapes us who we are ... and similarly our thoughts, emotion and actions
- Reactivity if one knows them being observed, they behave differently than them without knowledge ... so, your response changes for same condition when you are observed vs. when you do not ...

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What are the Essential Ingredients? – Systematic and Controlled Approach

- Systematic and objective observation
 - Hypothesis testing (Falsification of hypothesis)
 - Reducing subjectivity
 - Generalization validity
 - Ensuring Validity at every stage from construct to conclusion
- Control ruling out the various possible explanation for better predictability and causal probability
- Ruling out the metaphysical explanations
 - People are poor and starving because God wills it ...

(Howard lee , 2007 from Essentials of Behavioral Research)

Demand Characteristics

Observers Demand

