

### 3. Classical Conditioning Foundations

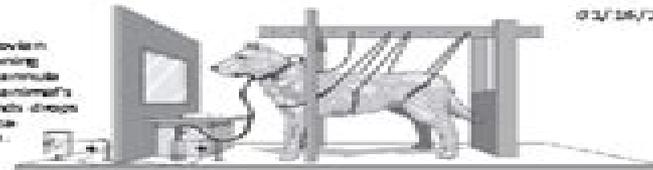
#### Early Years of Classical Conditioning

##### Pavlov and Classical Conditioning

- Studied chemistry + animal physiology
- Discovered nerves stimulate digestive secretions from the pancreas (1888)
  - Received Nobel Prize in 1904 for experiments following this discovery
- Classical conditioning = extension of digestion work
  - Recognized "psychic secretions" from dogs could be used to study...
    - Mechanisms of association learning
    - Nervous system fns

↪ Gnosensory relates to oral senses and the innervation that provides for them

Diagram of Pavlovian salivary-duct conditioning preparation. A cannula attached to the animal's salivary duct sends drops of saliva to a data-recording device.



03/16/2022

##### Classical Conditioning Paradigm

- Stimuli/responses **independent** on prior training → **Unconditional**
  - Stimuli/responses **dependent** on prior training → **Conditional**
- ☞ Pavlov's basic procedure: A sound/light presented to animal prior to food/sour solution being given after a short delay
- Sound/light → **Conditional Stimulus (CS)**
    - Salivation depends on association with food
  - Food/Sour Solution → **Unconditional Stimulus (US)**
    - Salivation to food/sour taste doesn't need training
    - Automatic/instinctive response
  - Salivating to food/sour taste → **Unconditional Response (UR)**
  - Salivating to sound/light → **Conditional Response (CR)**

##### Student Discoveries - Vulfson and Snarski (Students of Pavlov)

- First systematic studies of classical conditioning
- Varying approaches, same conclusions
  - Externalized salivary liquids w/ a fistula
  - Substances used were visually identifiable and elicited orosensory stimuli
    - Produce distinct texture and taste sensations
  - Vulfson → Dog's salivary response to various substances mouth
    - Dry or wet food, sand, sour water (naturally occurring materials)
    - Over time, sight of the substances would induce salivation
  - Snarski → Salivary response to artificial substances in mouth
    - e.g. sour water (strong lemon juice) dyed black
    - Result: salivary response to sour water
    - Response extended to other substances
      - Regular water dyed black, a bottle containing black liquid
- Experiments showed **object learning**
  - Associating object's features with another
  - The dogs associated substance's visual features w/ their orosensory features
- Studying Mechanisms of Associative Learning
  - Stimuli manipulated independently
  - Difficult when stimuli from same object

☐ **Object Learning:** Learning associations b/w different stimulus features of an object, such as what it looks like and how it tastes

☐ **Conditional Stimulus (CS):** a stimulus that doesn't elicit a particular response initially, but will through association with a US

☐ **Unconditional Stimulus (US):** a stimulus that elicits a particular response w/o any prior training

☐ **Conditional Response (CR):** response made to the CS through classical conditioning

☐ **Unconditional Response (UR):** response to stimulus that doesn't need prior training

#### Experimental Situations

##### Fear Conditioning

- ☞ **Watson and Rayner (1920) - Little Albert**
  - No fear response in Little Albert to animals prior to conditioning
  - Paired animal (e.g. white rat) with a loud banging noise
  - CR generalized to similar stimuli



# Foundations Of Conditioning

**L Manion**



## **Foundations Of Conditioning:**

## **Foundations Of Conditioning** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Foundations Of Conditioning**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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