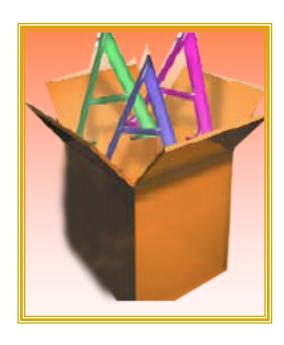
Chapter 6: Learning

Lecture Overview

Classical Conditioning

Operant Conditioning

Cognitive-SocialLearning

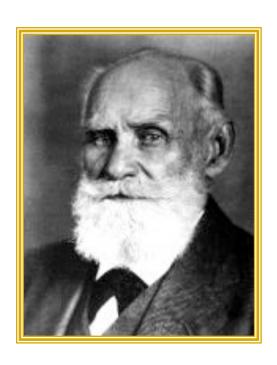


Introductory Definitions

- Learning (relatively permanent change in behavior or mental processes resulting from practice or experience)
- Conditioning (process of learning associations between environmental stimuli and behavioral responses)

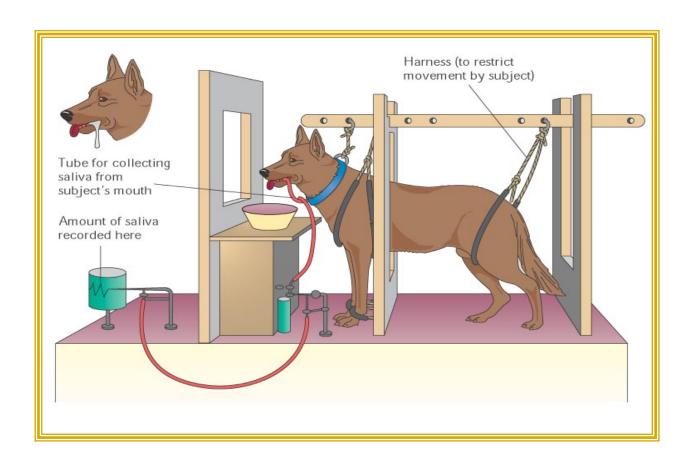
Classical Conditioning

Paylov's Contribution



 Classical **Conditioning:** learning that occurs when a neutral stimulus (NS) becomes paired (associated) with an unconditioned stimulus (UCS) to elicit a conditioned response (CR)

Pavlov's Original Experiment



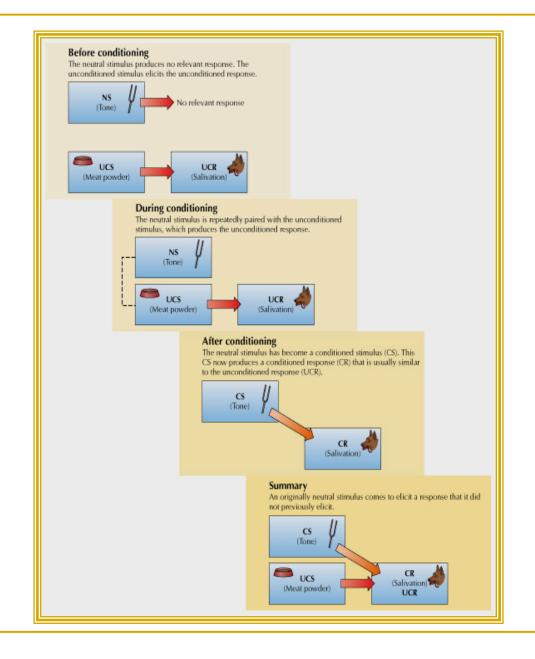
Classical Conditioning--Key Terms

- Neutral Stimulus (NS): stimulus that, before conditioning, doesn't naturally bring about the response of interest
- Unconditioned Stimulus (UCS): stimulus that elicits an UCR occurring without previous conditioning
- Unconditioned Response (UCR): unlearned reaction to an UCS occurring without prior conditioning

Classical Conditioning--Key Terms (Continued)

 Conditioned Stimulus (CS): previously NS that, through repeated pairings with an UCS, now causes a CR

 Conditioned Response (CR): learned reaction to a CS occurring because of previous repeated pairings with an UCS

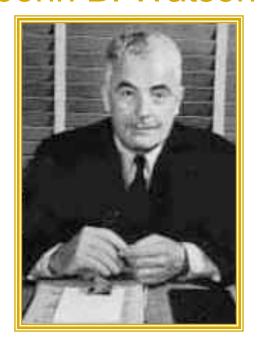


Classical Conditioning (Continued)

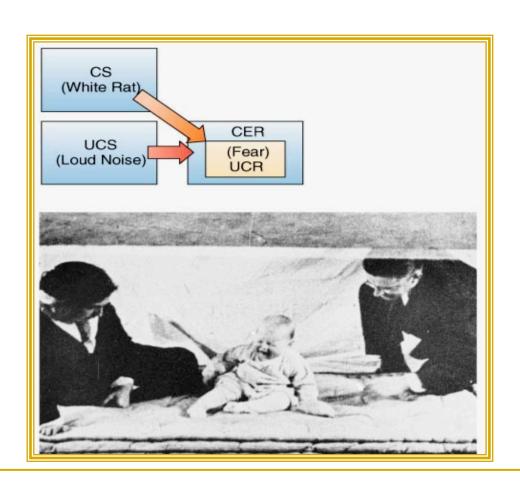
Conditioned Emotional Response (CER):

Watson demonstrated how emotions can be classically conditioned to a previously neutral stimulus (NS).

John B. Watson



Watson and Rayner Created a Fear of Rats (a CER) in Little Albert

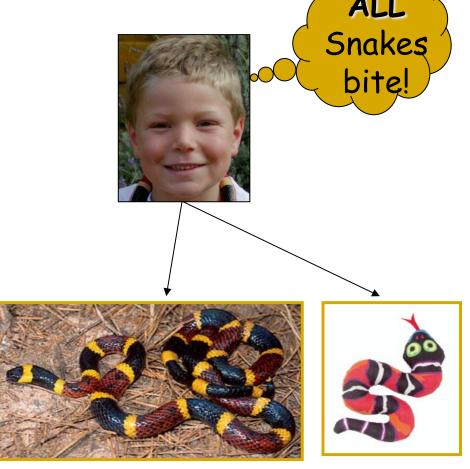


Classical Conditioning's Basic

Principles

Stimulus Generalization:

> learned response to stimuli that are similar to the original conditioned stimuli (CS)

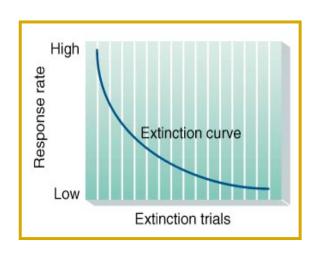


Classical Conditioning's Basic

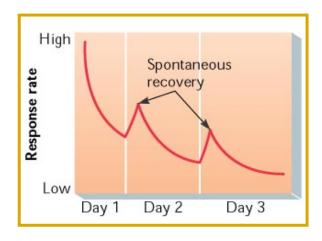
Principles (Continued)

Stimulus
 Discrimination:
 learned response
 to a specific
 stimulus, but not to
 other, similar
 stimuli





 Extinction: gradual weakening or suppression of a previously conditioned response (CR)



 Spontaneous Recovery: reappearance of a previously extinguished conditioned response (CR)

Operant Conditioning

Operant Conditioning:
 learning in which voluntary responses are controlled by their consequences



Operant Conditioning (Continued)



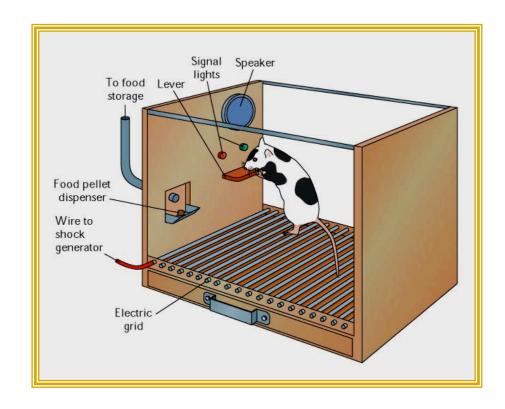


 Law of Effect: the probability of an action being repeated is strengthened when followed by a pleasant or satisfying consequence

Operant Conditioning (Continued)

Skinner'sContribution

 Conducted systematic research using a Skinner box



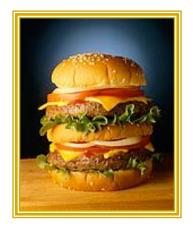
Operant Conditioning's Basic Principles

Reinforcement: strengthening a response



- normally satisfy an unlearned biological need (e.g., food)
- Primary Reinforcers:

 Secondary Reinforcers: learned value (e.g., money, praise)





Positive
 Reinforcement: adding
 (or presenting) a
 stimulus, which
 strengthens a
 response and makes it
 more likely to recur
 (e.g., praise)



 Negative Reinforcement: taking away (or removing) a stimulus, which strengthens a response and makes it more likely to recur (e.g., headache removed after taking an aspirin)



LI SUMMARY TABLE 6.2 HOW REINFORCEMENT STRENGTHENS AND INCREASES BEHAVIORS		
	Positive Reinforcement [Adds to (+) and strengthens behavior]	Negative Reinforcement [Takes away (–) and strengthens behavior]
Primary Reinforcers	You do a favor for a friend and she buys you lunch in return.	You do the dishes and your roommate stops yelling.
	You wash your friend's car and she hugs you.	You take an aspirin for your headache, which takes away the pain.
Reinforcers Secondary	You increase profits and receive \$200 as a bonus.	After high sales, your boss says you won't have to work on weekends.
	You study hard and receive a good grade on your psychology exam.	Professor says you won't have to take the final exam because you did so well on your unit exam.





Punishment: weakening a response

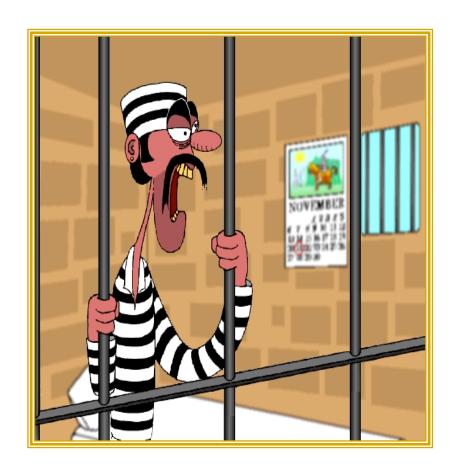


Positive Punishment:
 adding (or
 presenting) a
 stimulus that
 weakens a response
 and makes it less
 likely to recur (e.g.,
 shouting)



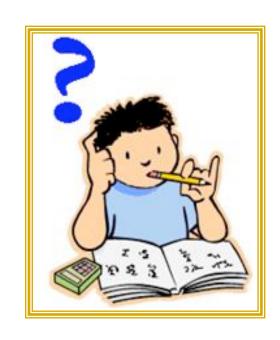
Negative Punishment:

 taking away (or removing) a stimulus that weakens a response and makes it less likely to recur (e.g., restriction)



Cognitive-Social Learning

 Cognitive-Social Theory:
 emphasizes the roles of thinking and social learning in behavior



Cognitive-Social Learning (Continued)

 Observational Learning: learning new behaviors or information by watching others

Bandura's Famous Bobo Doll study

