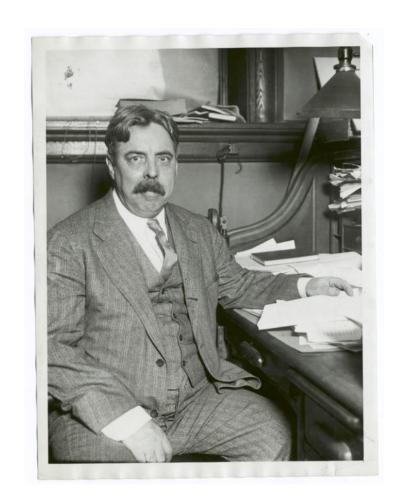
Operant Conditioning

type of learning in which behavior is strengthened if followed by reinforcement or diminished if followed by punishment

■ Law of Effect

☐ Thorndike's principle that behaviors followed by favorable consequences become more likely and behaviors followed by unfavorable consequences become less likely



- □ Operant Behavior
 - complex or voluntary behaviors
 - push button, perform complex task
 - operates (acts) on environment
 - produces consequences
- Respondent Behavior
 - occurs as an automatic response to stimulus
 - behavior learned through classical conditioning

Reinforcer

 any event that strengthens the behavior it follows

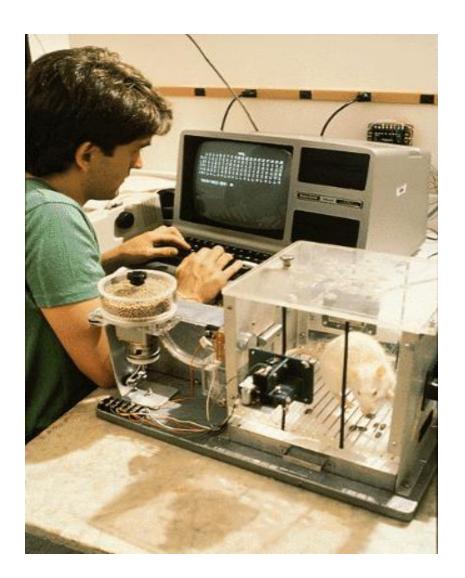
Shaping

 operant conditioning procedure in which reinforcers guide behavior toward closer approximations of a desired goal

B.F. Skinner (1904-1990)

Used a Skinner Box (Operant Conditioning Chamber) to prove his concepts.

Operant Chamber



☐ Skinner Box

- soundproof
 chamber with a
 bar or key that an
 animal presses or
 pecks to release a
 food or water
 reward
- contains a device to record responses

Reinforces

A reinforcer is anything the INCREASES a behavior.

Positive Reinforcement:

The addition of something pleasant.

Negative Reinforcement

□ The removal of something unpleasant



Principles of Reinforcement

- Primary Reinforcer
 - innately reinforcing stimulus
 - i.e., satisfies a biological need
- Conditioned / Secondary Reinforcer
 - stimulus that gains its reinforcing power through its association with primary reinforcer
 - secondary reinforcer

Schedules of Reinforcement

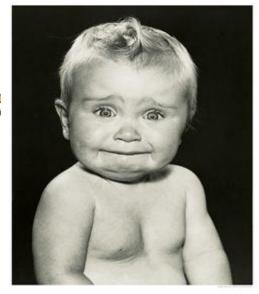
- Continuous Reinforcement (Shaping)
 - reinforcing the desired response each time it occurs
- Partial (Intermitent) Reinforcement
 - reinforcing a response only part of the time
 - results in slower acquisition
 - greater resistance to extinction

Punishment

- Punishment
 - aversive event that decreases the behavior that it follows
 - powerful controller of unwanted behavior

Punishment









Meant to decrease a behavior.

Positive Punishment

Addition of something unpleasant.

Negative Punishment (Omission Training)

Removal of something pleasant.

Punishment works best when it is immediately done after behavior and if it is harsh!

Problems with Punishment

- Punished behavior is not forgotten, it's suppressed- behavior returns when punishment is no longer eminent
- Causes increased aggression- shows that aggression is a way to cope with problems-Explains why aggressive delinquents and abusive parents come from abusive homes

Problems with Punishment

- Creates fear that can generalize to desirable behaviors, e.g. fear of school, learned helplessness, depression
- Does not necessarily guide toward desired behavior- reinforcement tells you what to dopunishment tells you what not to do-Combination of punishment and reward can be more effective than punishment alone
- Punishment teaches how to avoid it