CHAPTER 7 Learning

Professor Fazakas-DeHoog

Natural Response

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Meat Powder Salivation



Unconditioned Stimulus (UCS) Unconditioned Response (UCR)

• • No Natural Response

Bell No response



Neutral Stimulus

During Learning



Repeatedly pair UCS and Neutral Stimulus

After Learning

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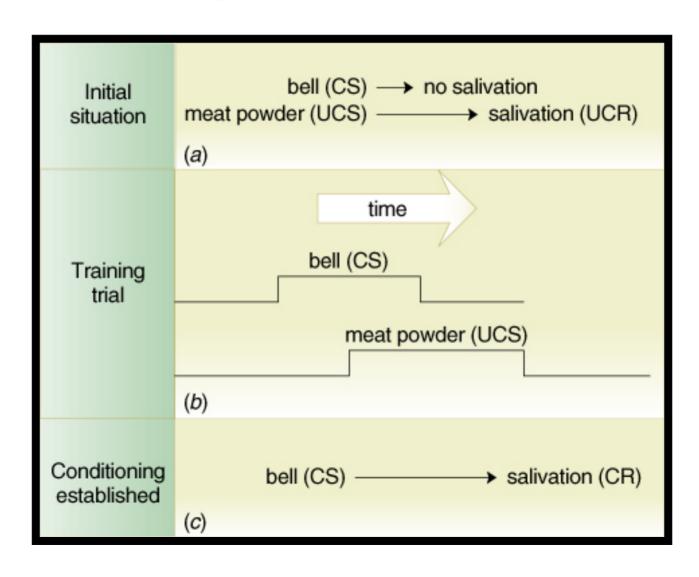
Bell

Conditioned Stimulus (CS) Salivation

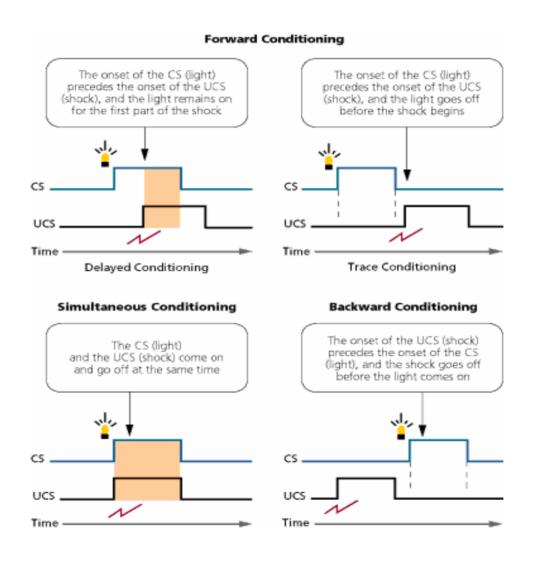


Conditioned Response (CR)

Summary

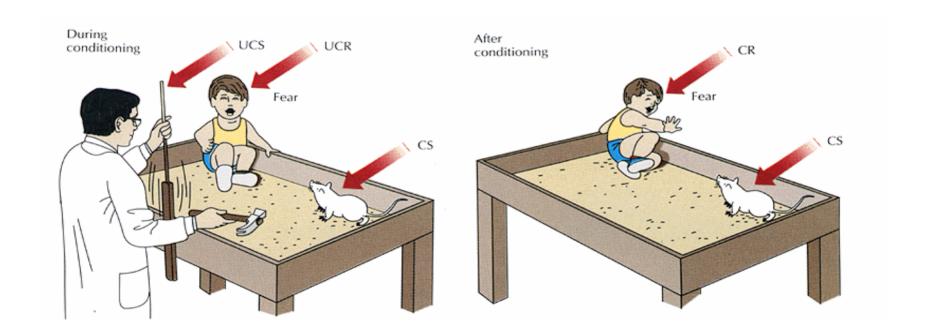


Timing is Important

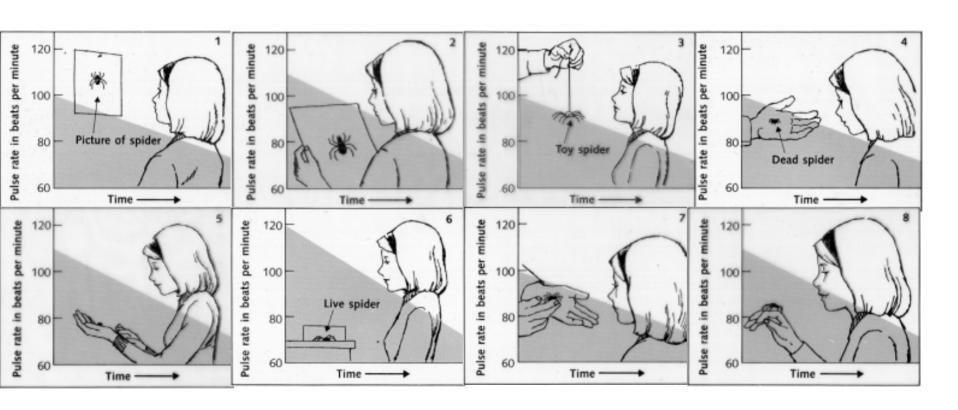


Little Albert

- Acquisition of Phobias
 - Classical Conditioning of Fear

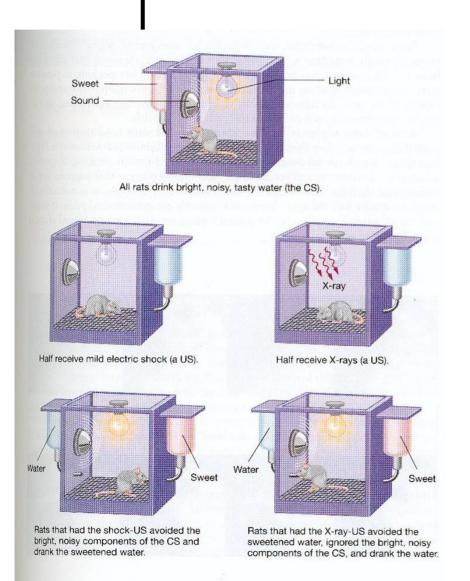


Systematic Desensitization



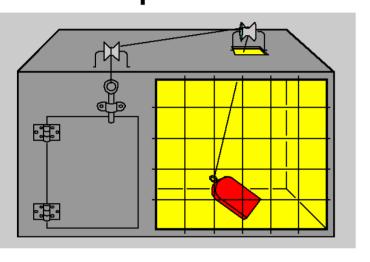
Treating a spider phobia with systematic desensitization

Other Considerations

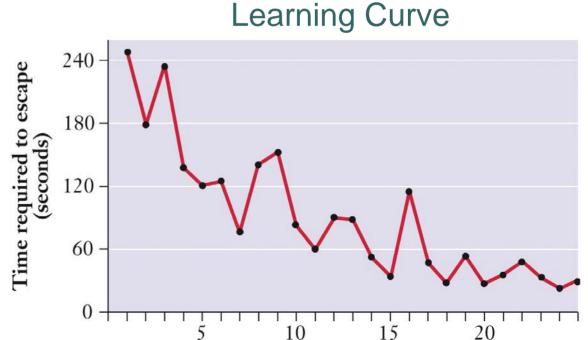


- Biological Constraints
 - degree of conditioning depends on stimulus and species
- Taste Aversions
 - strong CS-UCS association after only one trial
- Role of Cognition
 - expectations
 - forming representations
- Compensatory-Reaction Hypothesis
 - is classical conditioning the body's way of adapting?

Thorndike's Experiment



Puzzle Box



Successive trials in the puzzle box

First Trial



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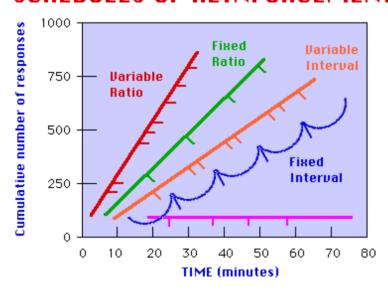
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Later Trial



Partial Reinforcement

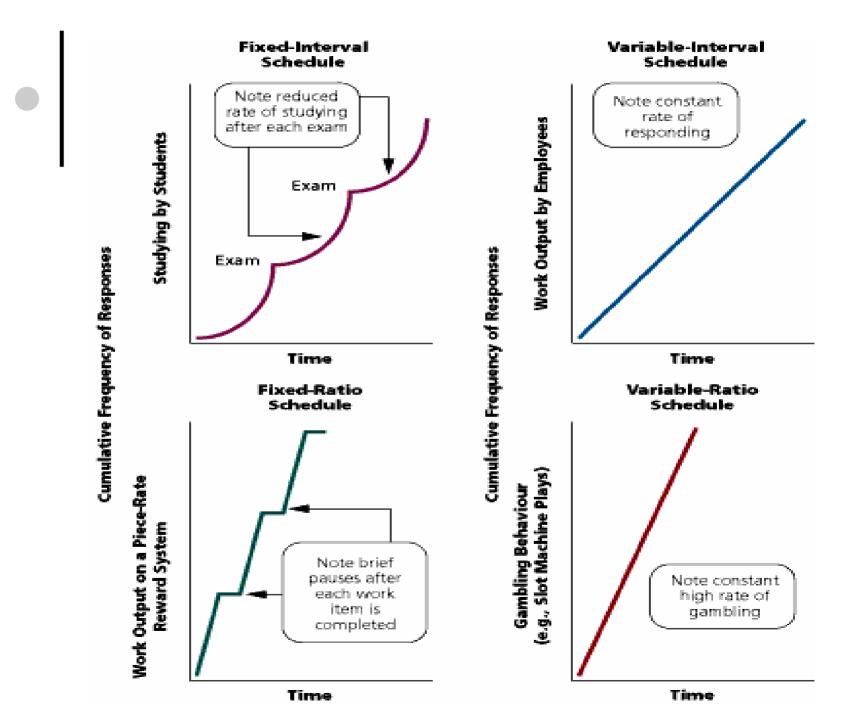
SCHEDULES OF REINFORCEMENT



Fixed Ratio

- reinforced after a fixed number of responses
- Variable Ratio
 - reinforced after a variable number of responses
- Fixed Interval
 - reinforced after a given amount of time has elapsed
- Variable Interval
 - reinforced after a variable interval of time has elapsed

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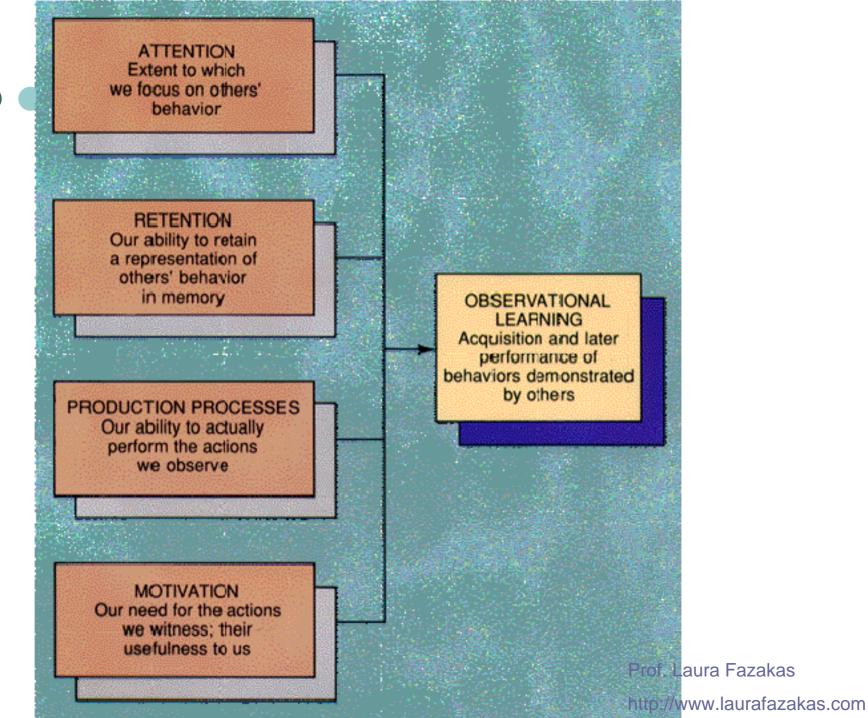
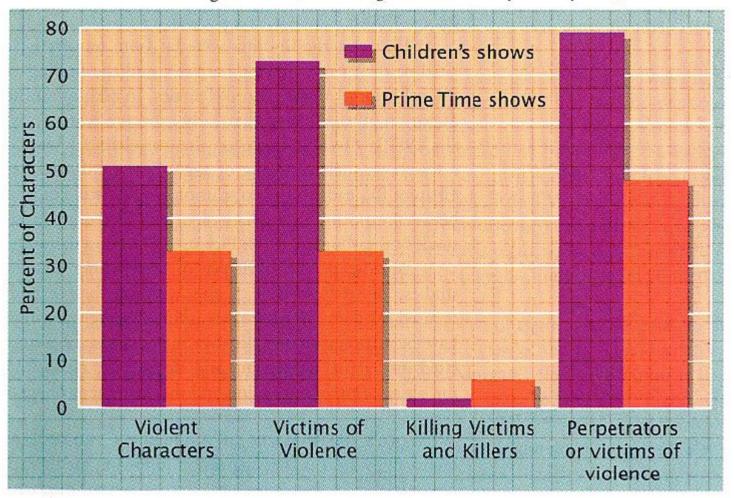


FIGURE 9-1 Violence on Television Violence in television programs targeted for both children and adults occurs at high levels. (Source: George Gerbner, University of Pennsylvania.)



Experimental Evidence

Exposure to a violent TV show increased aggression – especially among boys.

