

Learning

Basic characteristics

- _____
 - The belief that the universe is lawful and orderly
- _____
 - The occurrence of phenomena as a function of the operation of specific variables
- _____
 - Objective observation
- _____
 - Controlled experiments with manipulation of independent variables
- _____
 - Requirement that simple, logical explanations are considered before complex ones

We should study behavior not for what it can tell us about _____, but for its own _____!

conditioning

- A.K.A. _____ conditioning
- A.K.A. _____ conditioning
- Important area in _____ research, but underrepresented in _____ research
- Deals with _____ responses (called _____)
 - Responses _____ by certain stimuli
 - Not affected by _____
 - Examples
 - Salivating
 - Heart rate
 - Emotional responses

Important Terms

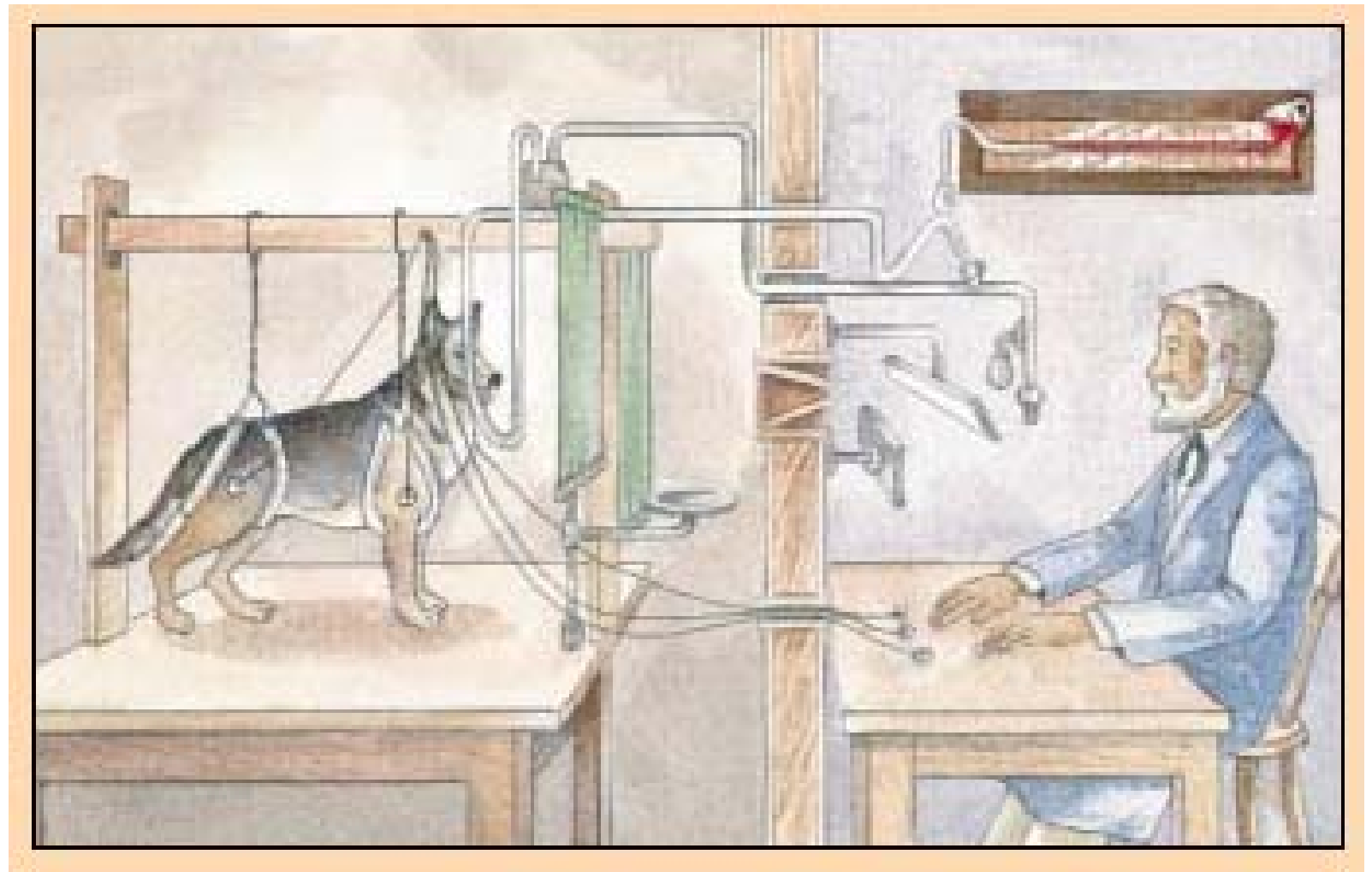
- _____ stimulus (_____)
 - Stimulus that elicits a response _____ any prior _____ history (“_____” elicits the response)
- _____ response (_____)
 - Response that occurs _____ (“_____”) when the UCS is presented
 - _____

Important Terms

- _____ stimulus (_____)
 - Stimulus that is initially _____ with respect to the _____ response (_____)
- _____ stimulus (_____)
 - Previously _____ stimulus that elicits a response due to pairing with the _____
- _____ response (_____)
 - Response that is learned
 - Occurs following presentation of the CS



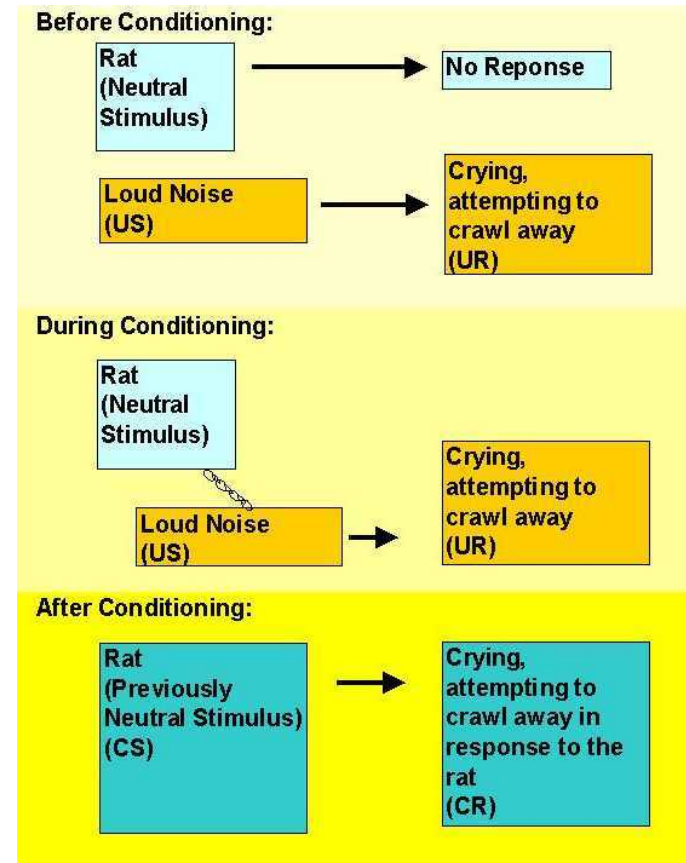
The Apparatus



Why should we be interested in dog spit?

- First example of a scientific study of behavior
- Application to

-
- Watson
 - _____ therapy
 - Cancer patient
 - NS = _____
 - UCS = _____
 - NS + UCS → _____ (UR)
 - NS becomes _____
 - CS → _____
 - Advertising



John Watson (1878-1958)

- 'Psychology as a Behaviorist View It' (1913)
 - Brilliant and unconventional man
 - Psychology should only concern itself with
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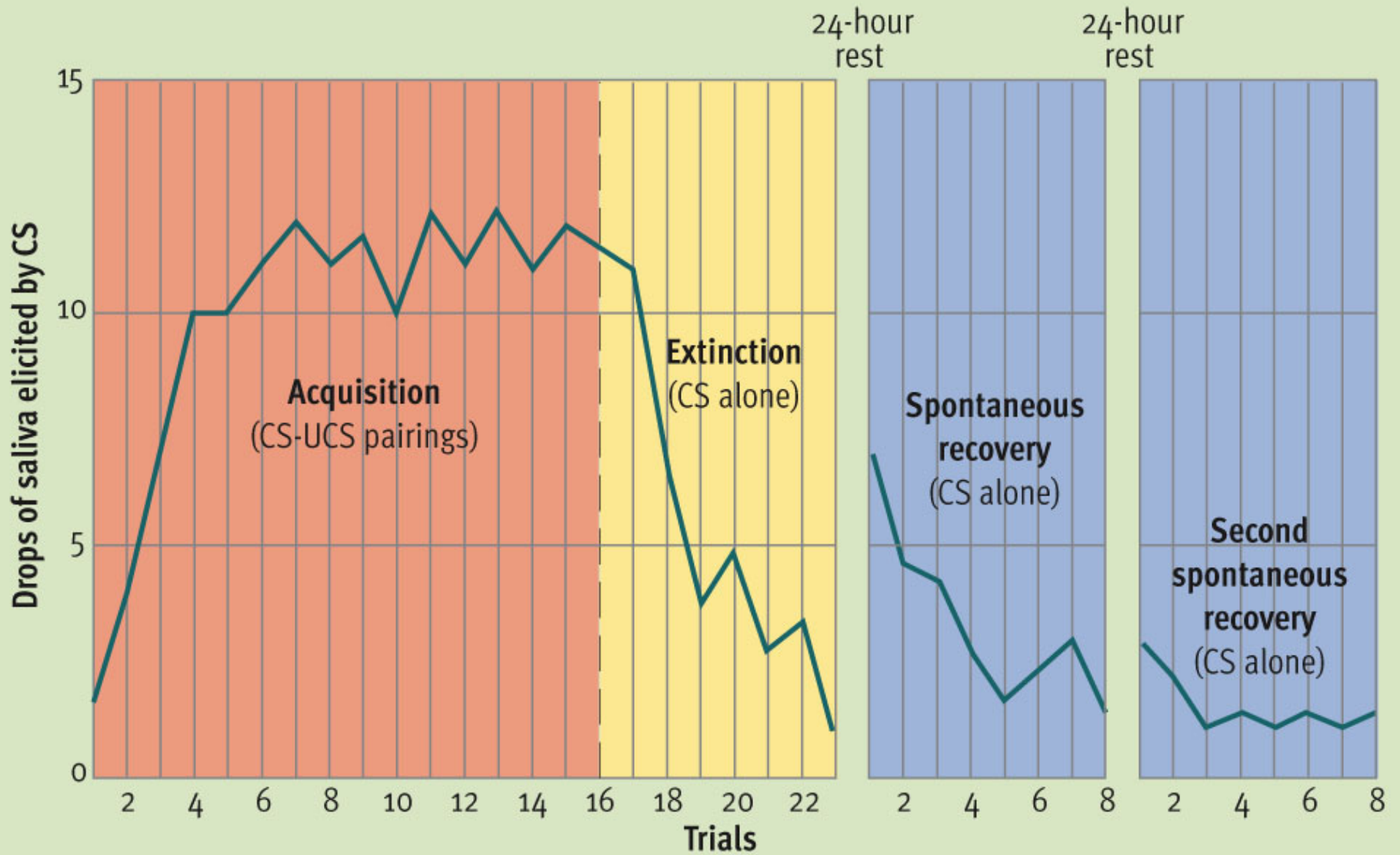


Fig. 6.12. John Watson in 1912, when voted by students the most handsome professor at the Johns Hopkins University and just before giving his lecture series at Columbia

John Watson

- First psychologist to carry out experiments on





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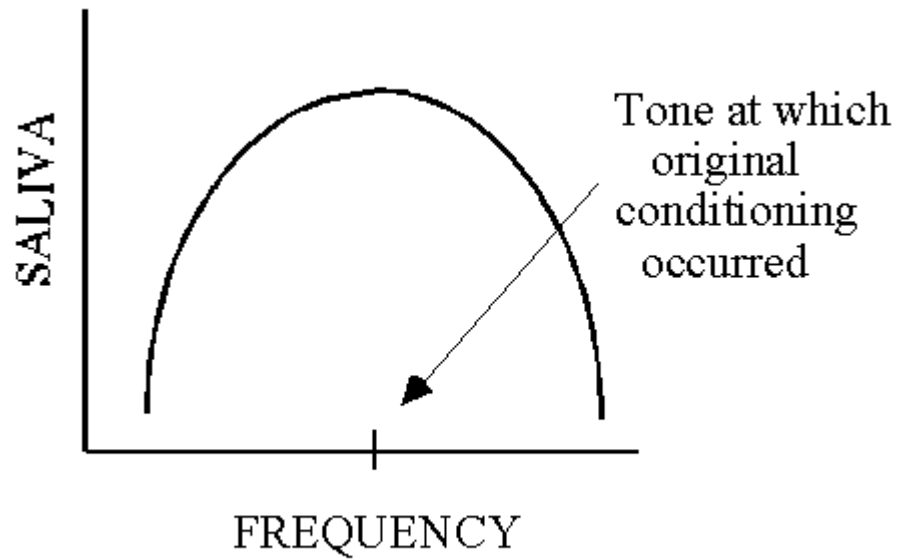
Figure 6.6 Acquisition, extinction, and spontaneous recovery

Learning Objective 3

More terms...

- _____^{*}
 - Spread of effect of _____ to other, perhaps _____, _____ stimuli
 - The more _____ the stimulus context, the greater the probability of _____
- _____^{*}
 - The CR is made only to one specific CS (opposite of _____)
 - Can be accomplished experimentally by providing stimuli similar to the _____ without the _____.

Generalization



Real-world examples of respondent conditioning

- _____ & can openers
- Heart rate & _____
- _____ & certain songs
- _____ & girlfriend's perfume
 - Or, _____ & EX-girlfriend's perfume
- Heart rate & _____
- Conditioned _____

Applications of _____ conditioning



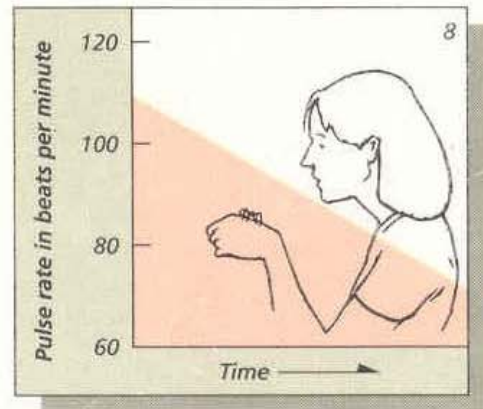
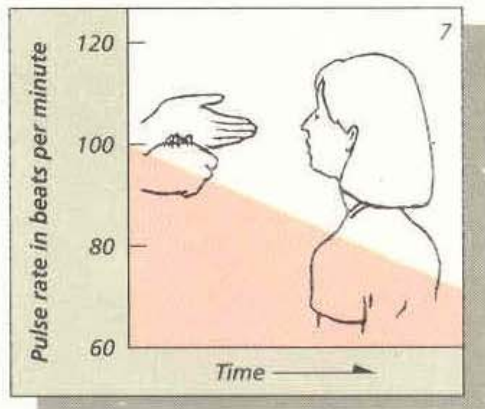
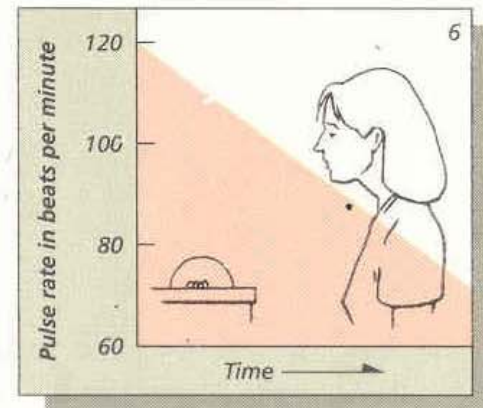
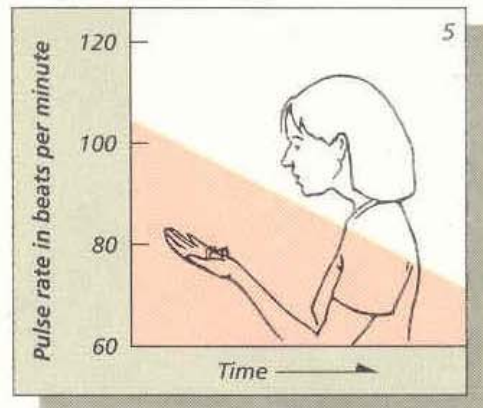
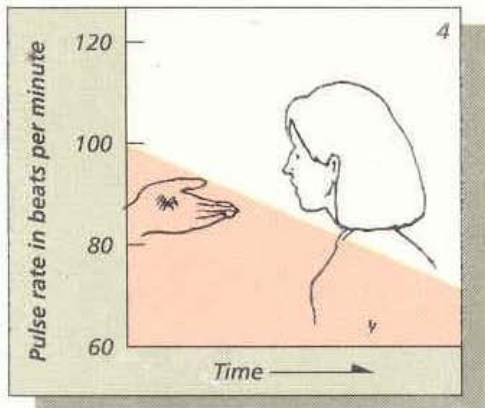
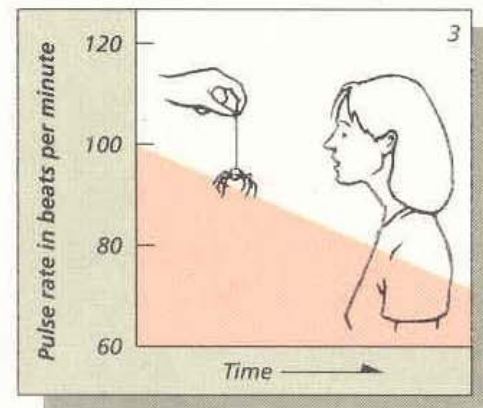
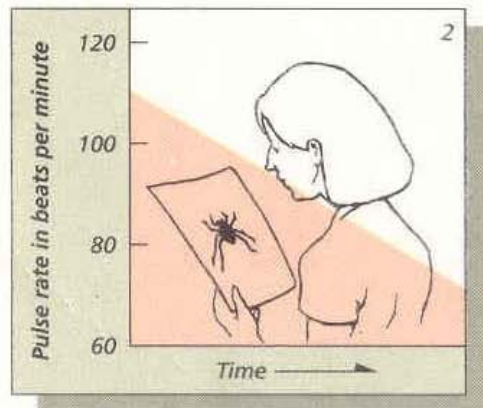
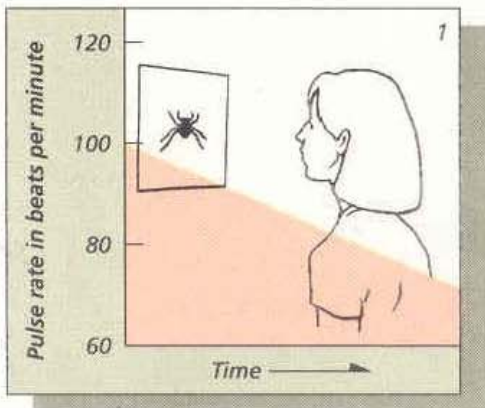
– Repeated pairing of an _____ while simultaneously having the participant engage in a _____

- Teach _____
- Have participant engage in relaxation response while presenting _____ of the CS
- Gradually increase the _____ of the CS as the CR begins to decrease

– Commonly used for _____

– Consideration: VERY important that the CS & UCS _____ during this process

– Contact with CS can be _____ or _____

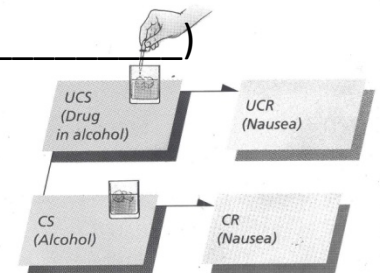


Applications of respondent conditioning

- _____
 - Used primarily for phobias
 - Expose client to feared stimulus for extended periods of time
 - Uses _____
 - Can have some very undesirable _____
- _____ conditioning (_____ therapy)
 - Involves pairing an _____ stimulus with a previously enjoyed stimulus
 - Commonly used for different forms of _____
 - Example: _____
 - UCS (_____) + NS (_____) → UCR (_____)
 - CS (_____) → CR (_____)
 - Loopholes
 - _____
 - History with “_____” stimulus
 - _____ of “treatment alcohol” versus “bar alcohol”
 - Example: _____ (treatment center in central FL)

Transparency 134
Figure 16-2, page 610
Aversion therapy for alcoholism

Myers, Psychology, Third Edition
Copyright © 1985 by Worth Publishers, Inc.



Conditioning

- _____ behavior
 - Behavior _____ by the organism (not _____)
 - Affected by _____
- Origins
 - Thorndike
 - Watson
 - Skinner

-
- Any consequence of behavior that _____ the future probability of that behavior
 - Can be _____ or _____
 - _____ reinforcement:
 - Presentation of a stimulus following a response that _____ the future probability of that response
 - If the probability increases, the stimulus can be called a “reinforcer”
 - Examples?
 - _____ reinforcement:
 - _____ of an _____ stimulus following a response that _____ the future probability of that response
 - Examples?

-
- Any consequence of behavior that _____ the future probability of that behavior
 - Can be _____ or _____
 - _____ punishment:
 - _____ of an aversive stimulus following a response that _____ the future probability of that response
 - If the probability of the response decreases, the stimulus can be called a “punisher”
 - Examples?
 - _____ punishment:
 - _____ of a stimulus following a response that _____ the future probability of that response
 - Examples?

Operant Conditioning

Reinforcement & Punishment

Note: These are defined functionally, *not* structurally!
(It's not a reinforcer unless it increases behavior.)

Primary & Secondary

- _____reinforcers/punishers
 - Affect behavior without _____with other stimuli
 - Examples
- _____reinforcers
 - Must be _____with other stimuli to have reinforcing/punishing effects
 - This is a _____process!
 - Examples

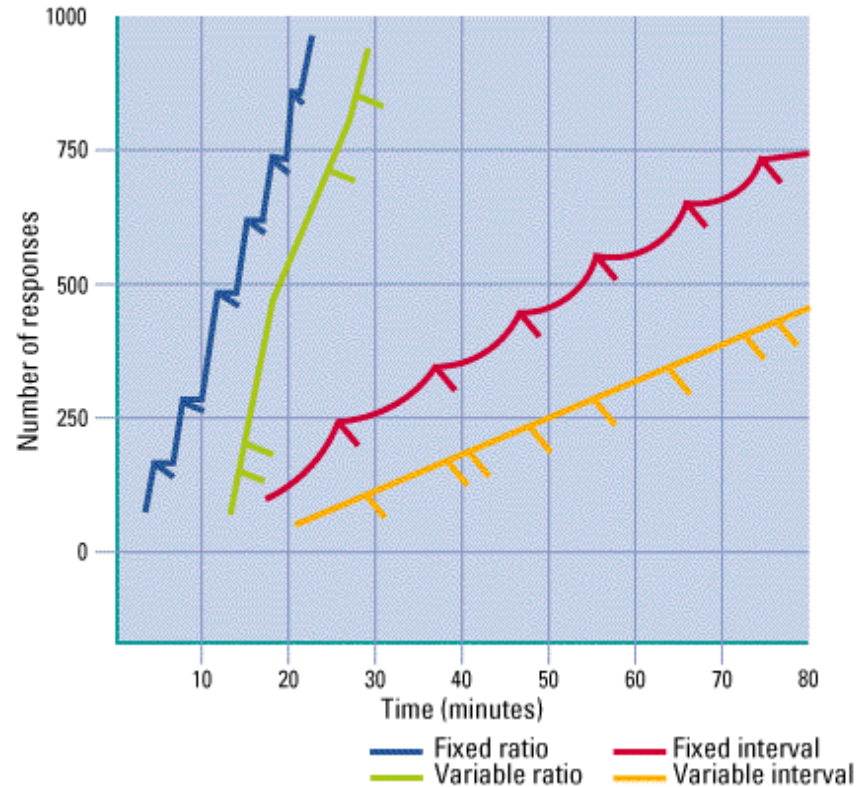
Increasing behavior: Reinforcement

- Reinforcers can be delivered following behavior on certain “_____”
- Schedules can be _____ or _____

- Schedules can be based on the _____ or the _____
 - _____ schedule
 - _____ schedule
- Examples?

Schedules of Reinforcement

- Simple reinforcement schedules produce characteristic response rates.
- _____ lines _____ mean _____ response rates.
- _____ schedules produce more responses than do _____ schedules.

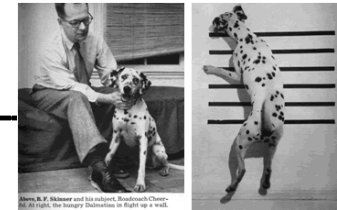
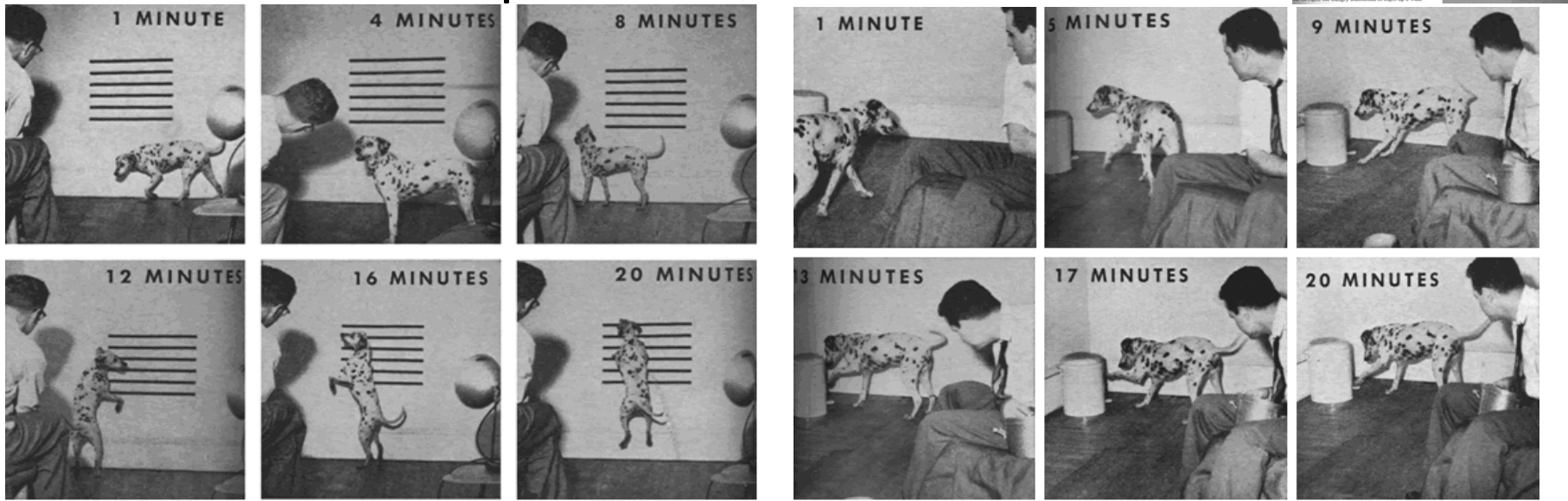


&

-
-
- Like _____, but don't get confused!!
 - _____ stimuli occur when a behavior is _____ in the presence of those stimuli & _____
 - Stimulus → Behavior → Reinforcer
 - Example: picking up a ringing telephone
 - Acting one way at a party and another with your parents
 - That behavior is more likely to occur in the presence of the _____ stimulus
 - _____: Behavior also occurs in the presence of other, similar _____
 - You will pick up phones with novel rings

Ways to increase behavior & get new behavior

- _____ increases current behavior
- _____ allows formation of new behavior
 - Involves reinforcement of _____ terminal response



Skinner, B.F. Skinner and his subject, Bandwidth Chatter, 1937. The Image Collection in Right up a Wall.

Ways to Decrease Behavior

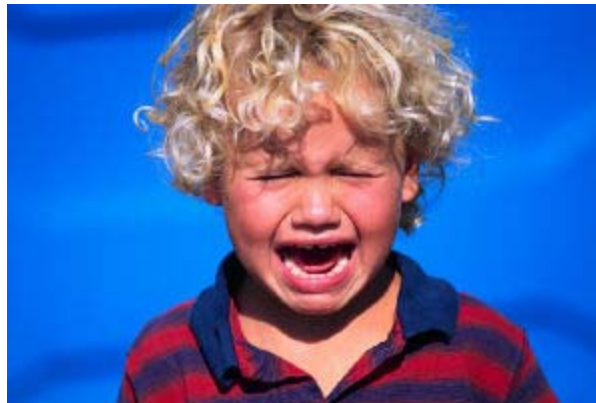
- _____ procedures decrease behavior
 - _____
 - _____ (i.e., “time out”)
- _____
 - _____ the maintaining reinforcer for a behavior
 - Example?
 - Elevator button pressing; vending eats your money

Punishment v. Extinction

<u>Punishment</u>	<u>Extinction</u>

Problems with Punishment:

- Person administering punishment is paired with punishment
- Leads to _____: person becomes a
“ _____ ”



Potential Problems with Extinction: Ineffective



Figure 4-2 An extreme example of why attempts to apply extinction often fail. The actual reinforcer for the behavior must always be withheld.

Potential Problems with Extinction: Impossible



"Try to ignore him. He's just attention seeking."

Potential Problems with Extinction: Emotion & Aggression

- <http://video.google.com/videoplay?docid=-8011124620592732795&q=tantrum>

Behavior Modification & Behavior Therapy

- Use the principles and techniques of behavior analysis to improve behavior
- More commonly known as “ _____ ”
- Commonly used to:
 - Decrease _____ (“behavior therapy”)
 - Increase _____/teach new skills
 - Increase _____ (teaching gun safety, implementing procedures to improve driving, improving workplace safety)
 - Help businesses come up increase sales & worker productivity
 - Explain commonly occurring behavioral phenomena (how language works, why people gamble, why people make particular choices)
 - Examine the behavioral effects of _____
 - _____

_____ Learning

Learning that takes place when one
_____ the behavior of
others.

■ Studies of _____

Children and others model both
_____ and
_____ behavior.

Observational Learning

The Process of Modeling Involves:

- ---

 - One must pay attention to a behavior and its consequences.

- ---

 - One must recall what was observed.

- ---

 - Observers must have the motor ability to reproduce the modeled behavior.

- ---

 - Observer must expect reinforcement for modeled act.