



DOGSTARS MODULE 2

ANIMAL LEARNING

Training Theories



TRAINING THEORIES

- I. The Premack Principle
- 2. Operant conditioning
 - I. Positive & Negative Reinforcement
 - 2. Positive & Negative Punishment
- 3. Extinction Bursts
- 4. Counter Conditioning
- 5. Classical Conditioning



1. THE PREMACK PRINCIPLE

- The <u>Premack principle</u> is a special case of reinforcement elaborated by <u>David Premack</u>, which states that a highly-preferred activity can be used effectively as a reinforcer for a less-preferred activity.
- Reinforcement hierarchy is a list of actions, rank-ordering the most desirable to least desirable consequences that may serve as a reinforcer.
- A reinforcement hierarchy can be used to determine the relative frequency and desirability of different activities, and is often employed when applying the Premack principle



THE PREMACK PRINCIPLE

- Examples of the Premack Principle
 - A dog has to sit before a ball is thrown
 - A dog is asked to lay down before a meal is

offered





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THE PREMACK PRINCIPLE

- What would be another example of the Premack Principle?
- Write down four more scenarios that would apply



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Brings to the table: Reinforcement and Punishment

- Positive Reinforcement
 - R+
- Positive Punishment
 - P+
- Negative Reinforcement
 - R-
- Negative Punishment
 - R-





Involves Reinforcement - Positive / Negative

Reinforcement

- Positive reinforcement occurs when an event or stimulus is presented as a consequence of a behavior and the behavior increases
- Negative reinforcement occurs when the rate of a behavior increases because an aversive event or stimulus is removed or prevented from happening.





Reinforcement - Positive / Negative - Examples

Reinforcement

- Positive reinforcement
 - Dog sits and they get a treat the treat is added when a wanted behavior is desired - that behavior is likely to increase
- Negative reinforcement
 - Attention is stopped when a dog starts jumping on the owner. The attention is removed to reinforce the desired behavior





Involves Punishment - Positive / Negative

- Punishment
 - Positive punishment occurs when a response produces a stimulus and that response decreases in probability in the future in similar circumstances.
 - Negative punishment occurs when a response produces the removal of a stimulus and that response decreases in probability in the future in similar circumstances.



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Punishment - Positive / Negative - examples

- Punishment
 - Positive punishment a correction with a spray collar for a dog barking the addition of the spray will result in the dog not barking anymore for the desired result of no barking
 - Negative punishment removing a dog from an environment where they have been jumping on the counter to avoid the behavior from continuing.



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- Think of a few more examples of both -
 - Positive and negative reinforcement
 - Positive and negative punishment
- Keep in mind when its positive you are adding something and when its negative you are removing something



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- Extinction is the lack of any consequence following a response.
- When a response is inconsequential, producing neither favourable nor unfavourable consequences, it will occur with less frequency.



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Example of Extinction

- When a dog sits on their own on a greeting instead of jumping up on a person and no reward is given
- Teaching a dog to shake a paw and then no longer request the behavior, the behavior will no longer be offered



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- Extinction Bursts
 - This is when the unwanted behavior may get worse before it gets better.
 - The dog may offer it in a flurry of attempts to make sure it is not being rewarded still like it may have been in the past
 - Make sure you are ignoring the bursts or counter conditioning them to alternate more wanted behaviors.



- Extinction Bursts
 - This is good to see!
 - It may not seem like it in the moment however seeing a burst of unwanted behavior means that the dog is attempting to confirm that you still don't want it.
 - Stick with the training and dont give up.
 - It will get better very soon

Example of an extinction burst

- Dog barking when asked to sit
- We only reward the dog for sitting when not barking
- A week into training the sit with no bark the dog starts to bark more
- Stick with the plan and reward only for not barking



• What is Counter conditioning?

 Pairing one stimulus that evokes one response with another that evokes an opposite response, so that the first stimulus comes to evoke the second

response.





- For example, a dog is afraid of men wearing hats.
 - When a man wearing a hat approaches, the dog is repeatedly fed his favorite food.
 - The goal is to replace the animal's apprehension with the pleasure elicited by the food.
 - Counter-conditioning must be done gradually, however; if the process is rushed, the favorite food may take on the fear association instead.





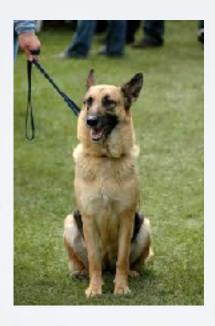
- When is Counter conditioning used?
 - A. to help shape positive associations to experiences
 - B. positive rewards/feedback can be given when the behavior is offered
- Also to modify unwanted behaviours
 - Sit when greetings with people instead of jumping up on them



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- Responsible for involuntary responses
 - Example:
 - Dog gets excited when the leash goes on
 - Dog sits when a treat is presented





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5. CLASSICAL CONDITIONING

- Simply put this is responsible for an eventual involuntary response e.g. a dog salivating when dinner is served the pavlovian response.
- What are other examples of this applied to dogs / dogs in training - when the behavior has not be a conditioned response yet?





5. CLASSICAL CONDITIONING

- What is a conditioned response?
 - A conditioned response must be learned while an unconditioned response takes place with no learning.
 - Remember the man with a hat and the dogs favourite food?
 - This is a conditioned response. Learning to accept men in hats is the conditioning we strive for
 - An example of an unconditioned response is jumping at the sound of a loud bang or being startled.



COMPLETION OF MODULE 2

You have now completed Module 2.3 - Training Theories part 1

Please go to Training Theories Part 2

Please review your notes before attempting the quiz.

Happy Training!

