

9-1 CLASSICAL CONDITIONING

Chapter 9: Learning

Learning

- Relatively permanent change in behaviour due to experience.

Classical Conditioning

- Ivan Pavlov
- An old response becomes attached to a new stimulus.
- Can a neutral stimulus cause a desired response?

Classical Conditioning

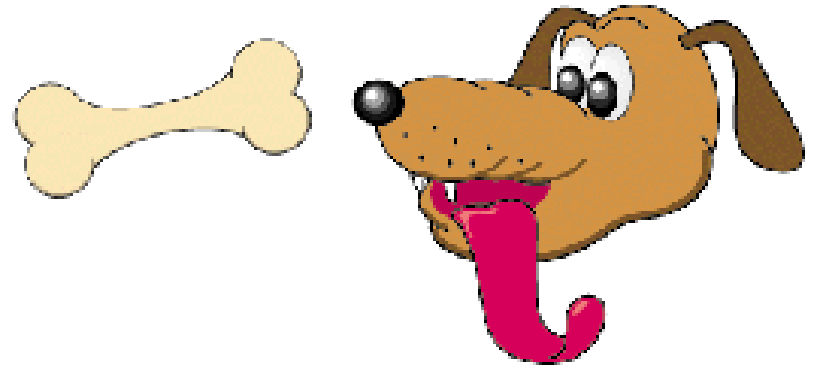
- Neutral stimulus = causes no particular response.
- Unconditioned stimulus = leads to a predictable behaviour
- Unconditioned response = natural reaction or reflex
- Conditioned stimulus = previously neutral event, after training leads to a response
- Conditioned response = learned reaction to a conditioned stimulus.

Classical Conditioning

Before conditioning

**FOOD
(UCS)**

**SALIVATION
(UCR)**



Before conditioning, the dog will salivate at the sight of a treat.

Classical Conditioning

BELL

NO RESPONSE



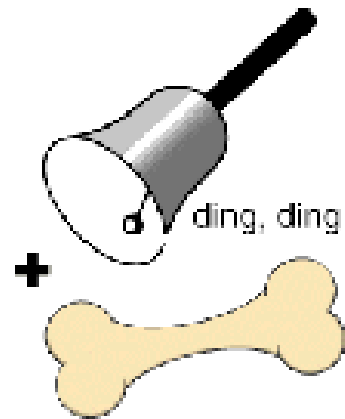
Before conditioning, the dog will not respond in any way to the bell.

Classical Conditioning

During conditioning

**BELL +
FOOD
(UCS)**

**SALIVATION
(UCR)**



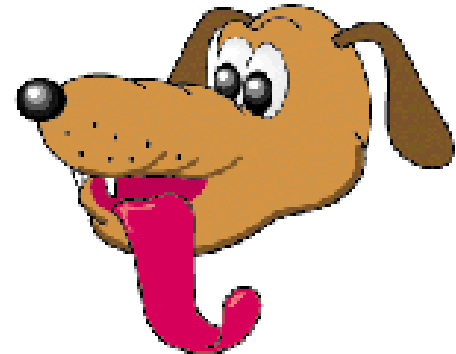
During conditioning the bell is sounded and then the treat is presented.

Classical Conditioning

After conditioning

BELL
(CS)

SALIVATION
(CR)



After conditioning, the previously neutral stimulus causes the dog to salivate.

The bell is now the conditioned stimulus and the salivation the conditioned response.

Classical Conditioning

- Generalization
 - ▣ Respond to a second stimulus similar to the original conditioned stimulus.
- Discrimination
 - ▣ The ability to respond differently to different stimuli
- Extinction
 - ▣ Loss of the conditioned response because the conditioned stimulus is not paired with the unconditioned stimulus anymore
- Spontaneous Recovery
 - ▣ Quick recovery of the conditioned response when the conditioned stimulus is again paired with the unconditioned stimulus

Classical Conditioning

□ Criticism

- How is morality learned?
- How is critical thinking learned?
- Does not consider choice
- Does not consider resiliency
- For only basic behaviours

Examples of Classical Conditioning

- Pavlov and his pups

- <http://www.youtube.com/watch?v=CpoLxEN54ho>

- Classical Conditioning in the Real World

- <http://www.youtube.com/watch?feature=endscreen&NR=1&v=ypCSoVhAyhl>

- Jim conditions Dwight

- <http://www.youtube.com/watch?v=WfZfMIHwSkU>