

# Emotion: Circuit (System) Level



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- [Panksepp sensory-motor circuits](#)
  - The [Papez Circuit](#)
  - The [Gray Circuit](#)
  - The [Limbic System](#)
  - The [LeDoux Circuit](#)
  - Emotions and Reinforcement

- According to Rolls, emotions are states elicited by reinforcing stimuli. The [amygdala](#) participate in the formation of stimulus-reinforcement associations, while the [orbitofrontal cortex](#) is involved in modifying these association upon changes in stimulus contingencies ([Rolls 1986](#)). Emotion have 6 main functions: Elicitation of autonomic responses, flexibility of behavioral response to reinforcing stimuli, motivation, communication, social bonding and survival ([Rolls 1999](#)).

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