

The Neurology of Gaming

Video games have both positive and negative effects on the human brain. They can be used to educate through repetition and feedback, but they also have been seen to cause some effects.

The parts of the brain impacted by games

Different gaming scenarios and situations affect different areas of the brain by providing varied feedback.

Motor and sensory regions: Motor and sensory regions of the brain are responsible for processing information and sending it back to the body.

Prefrontal Cortex: The prefrontal cortex is the part of the brain that is responsible for decision making, problem solving, and planning.

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Executive Functions: Executive functions are the mental skills that are used to plan, organize, and execute actions.

Attention: Attention is the process of focusing on a particular object or activity.

The effects of violent video games

- When gamers play frequently, there is a decrease in dopamine levels. This can lead to increased risk of depression and other mental health issues.
- One week of violent game play can lead to a decrease in the volume of the left striatum (area of the brain involved in learning, emotional behavior, and also in the anterior cingulate cortex, which is involved in decision making).
- Those who play high-intensity games are negatively impacted in their attention span.
- Playing violent games increases aggression, hostility, and hostility in the short and long term.

The positive and negative effects of video game

Depending on what area of the brain is being triggered, different can produce very different results.

Video game results: Research shows that video game play can improve cognitive skills.

Games improve skills: Games improve cognitive skills, such as problem-solving and decision-making.

Video game play: Video game play can improve visual attention and reaction time.

Video game play: Video game play can improve hand-eye coordination and reaction time.

Video game play: Video game play can improve hand-eye coordination and reaction time.

Video game play: Video game play can improve problem-solving skills and logical reasoning.

Video game play: Video game play can improve hand-eye coordination and reaction time.

Video game play: Video game play can improve hand-eye coordination and reaction time.

MALE GAMERS VS FEMALE GAMERS: On average, male brains show a much greater activation in the attentional network, especially in the dorsal and anterior regions. This means that male gamers tend to have more attentional activity and are thus more able to focus through the game play.

Sources: <https://www.researchgate.net/publication/354192812>, <https://www.verywellmind.com/video-games-and-brain-activity-2786026>, <https://www.verywellmind.com/video-games-and-brain-activity-2786026>, <https://www.verywellmind.com/video-games-and-brain-activity-2786026>, <https://www.verywellmind.com/video-games-and-brain-activity-2786026>.
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