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## The Psychology Of Horror In Games

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### Abstract

This study investigates the psychological factors that lead to horror experiences in video games. The main aim is to determine how environmental design, gameplay mechanics, and narrative elements trigger fear and tension in players. Qualitative methodology was employed, where a focus group of 12 regular players of different types of game genres was used. Players were watched as they played The Last of Us Part I, and then interviewed about what they experienced. The results show that sound design and lighting have the strongest effect in instilling horror. Putting players in helplessness or disempowerment situations also greatly enhances psychological tension. These findings are especially relevant to game design students, as horror is possibly the most nuanced of all genres to create. Effective horror experiences need a strong knowledge of human emotion and psychological reaction, which makes this research an effective building block for future design tactics.

### Introduction

Fear is perhaps the most primal and intense of human emotions—and video game designers have long tried to produce it through interactive media. Of all genres, horror is most noted for its special capacity to emotionally invest players not only through narrative, but through gameplay design, soundscapes, and environmental clues. But despite the popularity of the genre, crafting an effective horror game is a difficult one. In contrast to films or literature, horror games actually depend on the screen time, thus it is even harder to maintain fear and tension.

In recent years, it is games like The Last of Us, Outlast, and Silent Hill that have been lauded for their intense atmospheres and frightening set pieces. Yet, little scientific study has been directed toward the psychological processes which are so successful in these games. What makes a scene so frightening? Is it the music, lighting, the story, or the sense of powerlessness?

This study attempts to investigate the psychological effect of horror in video games. It specifically tries to determine which factors—such as sound, light, and empowerment—most induce fear and anxiety in players. This study employed a qualitative research approach by observing a focus group of 12 subjects playing *The Last of Us Part I*, and then conducting interviews to learn what they felt in real-time.

Understanding the psychological origins of fear in game design is especially relevant for students and professionals. Horror is one of the most challenging genres to achieve success in because it relies completely on psychological immersion and emotional manipulation. By isolating major design methods that create fear, this research becomes a part of a developing body of research on game design and provides useful insight for prospective developers seeking to master one of gaming's most elusive genres.

## Literature

## Review

Both game developers and researchers have studied the psychological mechanisms of fear within horror games. This literature review considers current theories and media analyses on horror mechanics, player psychology, and emotional design from a mix of video essays and online articles.

A common thread running through horror game critique is the conflict between anticipation and shock. Bizly, in *The Art of the Horror Game*, writes on how *Silent Hill* relies on atmosphere and slowness to engender dread, while *Five Nights at Freddy's* banks on abrupt jumpscare shocks to surprise players out of routine.<sup>1</sup> This contrast illustrates two fundamental psychological tactics—gradual tension vs. sudden surprise.

Another popular strategy is loss of control, used in games of limited movement (*Resident Evil*) or no combat system (*Outlast*, *Amnesia*). This feeling of powerlessness enhances fear by stripping the player of agency.<sup>2</sup> Artindi, within *How to Fail at Horror Games*, contests that over empowering the player strips away this vital tension.<sup>3</sup>

Uncanny valley is also often employed to unsettle gamers—*Dead Space* and *Silent Hill* bring forward abominably human creatures, taking advantage of our natural revulsion at nearly human beings. IrregularAce examines how visual design here enhances psychological discomfort.<sup>4</sup>

Mechanically, horror games instill fear by restricting resources (*Resident Evil*, *Alan Wake*), introducing high stakes through permadeath (*Darkwood*), and playing with perception (*Eternal Darkness*).<sup>5</sup> TheStellarJay observes, in *The State of Indie Horror Games*, that independent developers innovate by removing players' access to dependable information and making them doubt their own senses.<sup>6</sup>

While existing research and video analyses have pointed to pivotal psychological factors such as anticipation vs. shock, loss of control, and the uncanny valley as shaping fear in horror games, our research seeks to test these empirically. In particular, we want to investigate whether these factors have a uniform effect on player experience or if additional factors could also be of major importance in inducing successful horror atmospheres.

1. <sup>1</sup>Bizly, *The Art of the Horror Game*, YouTube video, 17:45, posted April 2023, <https://www.youtube.com/watch?v=example1>.
2. <sup>2</sup>Ibid.
3. <sup>3</sup>Artindi, *How to Fail at Horror Games*, YouTube video, 14:20, posted March 2023, <https://www.youtube.com/watch?v=example2>.
4. <sup>4</sup>IrregularAce, *Artindi*, YouTube video, 13:30, posted February 2023, <https://www.youtube.com/watch?v=example3>.
5. <sup>5</sup> Various authors, articles on horror game mechanics, accessed May 2025.
6. <sup>6</sup> TheStellarJay, *The State of Indie Horror Games*, YouTube video, 15:00, posted May 2024, <https://www.youtube.com/watch?v=example4>.

## Research Methodology

The current study used a qualitative research method to explore the psychological effect of horror game content on players' experiences. The reason for adopting a qualitative method is that it provides deeper insights into participants' emotional and cognitive responses, which are core to examining psychological reactions to horror.

A purposive sample of twelve participants was selected, comprising six regular PC gamers, four schoolmates with a strong interest in horror movies, and two researchers (myself and Akshay), who participated firsthand to gain direct experiential insights. The diversity in participants' backgrounds aimed to capture a range of responses to the game's horror elements.

Volunteers were instructed to play a particular section of *The Last of Us Part I*, up to the point where Tess is revealed to be infected and they need to escape while safeguarding Ellie. This part of the game was selected for its high-level narrative and psychological tension, making it appropriate for investigating the effect of environmental and gameplay elements on fear and anxiety. Voluntary participants were new to playing the game.

The gameplay sessions were performed one-on-one, mainly in a dark room at the researcher's home to maximize immersion and mimic the game's desired atmospheric conditions. Remote gameplay was provided for participants who could not attend in person through Discord calls to record real-time reactions. Observational notes were captured during gameplay to document observable emotional and behavioral feedback, including facial expressions, body language, and verbal feedback.

After playing, semi-structured interviews were used to collect qualitative data regarding the participants' subjective feelings. Interview questions aimed at determining certain moments in the gameplay that provoked fear or tension, why such reactions happened, and comparisons between the gaming experience and other forms of horror media, including films or books. Questions such as: "Which sections of the game left you on your toes?" and "How did it compare with watching or reading horror stories?"

Since the participants were researchers' acquaintances, the interviews were relaxed but rich and candid in their information. In order to ensure ethical procedures and participant comfort, anonymity was guaranteed and no true names were noted or published.

The information obtained from observation and interview was thematically analyzed to determine shared psychological triggers and game design features that contribute towards the horror experience. The analysis was conducted to confirm findings from previous literature and investigate whether there are other factors that affect horror in horror games.

## Data Analysis and Findings

The information gathered via observational notes and participant interviews were coded and analyzed through thematic analysis, a qualitative approach concerned with discovering patterns and themes within narrative and behavioral data. Through this process, a number of repeated psychological reactions among participants were discovered, specifically for environmental prompts, game mechanics, and emotional engagement.

### Player Caution and Resource Management

Players illustrated considerable prudence in gameplay, especially when running low on ammunition. The majority of the players decelerated movements, engaged in indirect combat, and played cautiously, avoiding detection. The fear generated by resource limitation, most notably in tense situations, confirmed the usefulness of scarce resources as a horror mechanic. The conduct illustrated an increased state of vigilance and demonstrated that the fear of being unprepared or vulnerable contributes to psychological tension.

### Fear of Confinement and Chaos: The Opening Car Scene

One of the most commonly cited moments of fear occurred during the early scene in *The Last of Us Part I*, where the player is in a moving car while chaos unfolds outside. Despite being physically protected, participants reported a strong sense of helplessness and impending danger. The integration of restricted agency, visual disorientation, and high audio—howling, explosions, and fiery buildings—added up to a sense of claustrophobia and terror. This scene was very effective in using sound and enclosed perspective to create a sense of anticipatory fear, a notion often highlighted in horror game theory.

### Environmental Design and Enemy Encounters: The Shopping Mall Scene

Another sequence that was regularly described as frightening was the part played in an empty shopping mall, where gamers fight numerous "Clickers." Even though the enemies had been seen earlier, this segment was memorable because of the dim light, ambient echoes, and visual confusion. When subjects knew they were without a shiv—used to kill the enemies quietly—there were many who reported feeling panic and hopelessness. This experience demonstrated how environmental design, resource constraints, and enemy volatility intersect to produce extreme psychological tension.

## Emotional Immersion and Realism

Players reported a high level of engagement with the game world, describing the sound design, lighting, and character development as creating an immersive experience. The interactive experience of the game heightened personal investment and emotional reaction compared to passive horror media. A number of players commented that *The Last of Us* left them feeling they were "really there," which heightened their responses to frightening situations. This corroborates theories already in place that player agency and immersion are crucial in creating successful psychological horror in video games.

## Conclusion and Recommendations

This study investigated psychological factors leading to fear in horror games through a case study of *The Last of Us Part I*. By employing a qualitative approach comprising gameplay observation and interviews with participants, the research determined some persistent triggers of fear: sound design, lighting, resource scarcity, and player vulnerability. These were more psychologically effective in evoking fear than visual jump scares or graphic gore.

Inhabitants recounted that they experienced most fear when they were in situations of restricted agency and environmental tension. For instance, the early car escape scene evoked helplessness and panic without any combat or monsters, but through limited perspective, disorienting soundscapes, and the illusion of security. As such, the dark shopping mall level—incomplete with numerous Clickers and no weapons—induced fear and panic through environmental sound hints, limited visibility, and tactical disadvantage. These scenes highlighted how anticipation, immersion, and disempowerment collaborate to induce fear at a psychological level.

The conclusions of the study fit in with current research on horror game mechanics, e.g., the value of anticipation rather than shock, loss of control, and fear of the unknown. Yet this research also pointed out that emotional realism—identification with the struggle of the character—makes the horror significantly stronger. Most participants reported that they felt "inside the world," stronger than experiencing horror movies because games are interactive.

From these results, some recommendations for game developers as well as researchers follow:

Game developers interested in creating deeper horror experiences should prioritize:

- Designing sound-rich environments that convey danger without revealing it.
- Developing gameplay situations that put players in psychologically empowering conditions.
- Focusing on resource management mechanics to create tension that accrues over time.
- Utilizing narrative pacing to gradually build emotional investment and fear, as opposed to relying on flashes of fright.

For researchers, the present study implies the necessity of more comparative studies that compare different horror sub-genres (e.g., psychological horror versus survival horror) or comparisons between first-person and third-person vision. Further research could also investigate the impact of repeated exposure on emotional desensitization, or how culture impacts fear reactions in games.

In summary, this research adds to the knowledge of the operation of horror in games on a psychological level. As students of game design, an investigation into the dynamic between fear and player psychology is central to becoming proficient in the horror genre—one of the most complex and emotionally taxing forms of interactive narrative.

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