



## Identifying as the Protagonist: Presence-inducing gameplay, linguistic elements, and self-perception in first-person narrative games

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### Abstract

This study investigated the psychological implications of presence-inducing gameplay in First-Person Narrative Computer Games, on player identification and self-perception. The research aimed to understand how players' interactions with game protagonists can impact their self-concept and personal identity, by examining the interplay between presence-inducing gameplay elements, linguistic aspects, and player engagement. Through a mixed-methods approach, the study combined in-depth interviews and thematic analysis of players' reflections to explore the potential psychological effects of FPNCGs. The study focused on the role of language in reinforcing player immersion and identification with game characters, as well as the narrative context provided through dialogue and narration. The findings of this study provide valuable insights into the broader implications of FPNCGs for game development, player well-being, and the potential of these immersive gaming experiences to facilitate personal growth and self-exploration. By considering the psychological impact of presence-inducing gameplay elements and linguistic aspects, this research contributes to the ongoing discourse surrounding the influence of FPNCGs on players' identity and understanding of self.

**Keywords:** First-person narrative computer games ; player identification; presence-inducing gameplay; self-perception.

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## 1. INTRODUCTION

As first-person narrative computer games (FPNCGs) continue to grow in popularity, understanding their philosophical and psychological implications becomes increasingly important (Spiegel, 2024; Udeozor et al., 2023). This study examines how presence-inducing gameplay elements, linguistic aspects, and player engagement in FPNCGs can affect players' identification with game protagonists and, consequently, their self-perception and personal identity. By combining in-depth interviews with thematic analysis of players' reflections, the research aimed to shed light on the potential psychological effects of these immersive gaming experiences.

FPNCGs are characterized by a unique blend of narrative-driven storytelling and gameplay experienced from the protagonist's perspective. These games often feature rich linguistic elements and detailed, interactive environments that foster a strong sense of presence and player identification with game characters. As players navigate these immersive worlds and make decisions that influence the narrative, they may internalize their characters' experiences, potentially leading to shifts in their self-concept and personal identity (Shallom & Gross, 2022).

This study adopts a mixed-methods approach, integrating qualitative and quantitative data to explore the complex interplay between presence-inducing gameplay, linguistic aspects, player engagement, and their psychological implications. The research focuses on the role of language in reinforcing player immersion and identification with game characters, as well as the narrative context provided through dialogue and narration.

The findings of this study will contribute to the ongoing discourse surrounding the influence of FPNCGs on players' identity and understanding of self. Furthermore, the results can inform game development practices, enhance player well-being, and demonstrate the potential of immersive gaming experiences to facilitate personal growth and self-exploration. By considering the psychological impact of presence-inducing gameplay elements and linguistic aspects, this research seeks to deepen our understanding of the transformative potential of first-person narrative computer games.

### 1.1. Literature review

The exploration of the psychological implications of first-person narrative games (FPNCGs) is grounded in various disciplines, including game studies, narratology, and psychology. The literature review delves into key aspects that contribute to the understanding of FPNCGs and their impact on player identification and self-perception.

Presence-inducing gameplay in FPNCGs is characterized by immersive mechanics, engaging narratives, and a sense of agency within the game world (Klimmt et al., 2009). Witmer and Singer (1998) introduced the concept of presence as a psychological state in which individuals feel immersed in a virtual environment. The presence theory emphasizes the importance of sensory information and interactivity in creating a sense of immersion. Building on this theory, researchers have examined the role of gameplay elements, such as player agency and interactive environments, in fostering presence in FPNCGs (Calvo et al., 2019; Skarbez et al., 2018; Barz et al., 2024). These studies suggest that the more players feel engaged in the game world, the more they identify with the protagonist.

Skarbez et al., (2018) investigated the effects of avatar representation and scene movement on presence in virtual reality gaming, further emphasizing the role of immersive gameplay in enhancing player identification and self-perception. Calvo et al., (2019), Agbo et al., (2023), and Lavoie et al., (2021) also discussed the importance of narrative engagement and presence in virtual reality narratives,

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highlighting the psychological implications of presence-inducing gameplay in shaping players' experiences and perceptions.

The use of language in FPNCGs has been a topic of interest in game studies, particularly regarding its role in shaping player experience and identification with game characters. Ensslin (2014) emphasized the significance of language in digital fiction, highlighting its potential to create immersive game worlds and engaging narratives. Similarly, Kücklich (2008) discussed the importance of mimetic representation in computer games, arguing that narrative and linguistic elements contribute to the player's sense of presence and identification with game characters. Moreover, dialogue choices and in-game communication have been found to reinforce player immersion and identification with the protagonist (McCoy et al., 2018).

McCoy et al., (2018) explore the effects of character customization on player identification and embodiment in interactive narratives, emphasizing the importance of agency and personalization in shaping players' experiences. Moreover, Kaczmarek et al., (2020) discuss the implications of player perception and decision-making in the context of advanced vehicle safety technologies, further highlighting the psychological impact of identification with interactive systems.

Furthermore, Gee (2003) explores the role of language in video games, suggesting that in-game dialogue, narration, and textual descriptions can influence players' understanding of game characters and their role within the game world. Salisbury et al., (2020) also examine the impact of linguistic framing on player perception and decision-making, highlighting the potential psychological implications of language use in interactive narratives.

Cohen (2001) examined the concept of player-avatar identification and its implications for players' emotional engagement in games. Building on this concept, Klimmt et al., (2009) explored the relationship between identification and game enjoyment, suggesting that the stronger players feel connected to the protagonist, the more they enjoy the game.

Witmer and Singer (1998) emphasize the importance of presence in virtual environments, suggesting that a strong sense of presence can enhance player enjoyment and engagement. In line with this, Ratan et al., (2020) explore the influence of avatar identification on player motivation, highlighting the significance of presence-inducing gameplay in shaping player experiences.

Self-perception theory (Bem, 1967) provides a psychological framework to understand how players' actions and experiences within FPNCGs might affect their self-concept and personal identity. Several researchers have applied this theory to investigate the potential psychological effects of virtual environments on individuals' sense of self (Gee, 2003; Ratan et al., 2020).

The literature reviewed in this section highlights the multidisciplinary nature of research on FPNCGs and their psychological implications. The theories and studies discussed above contribute to understanding how presence-inducing gameplay, linguistic elements, and player identification influence self-perception in FPNCGs. The mixed-methods approach used in this study offers a comprehensive exploration of players' experiences and the potential psychological effects of FPNCGs on their identity.

## **1.2. Conceptual framework**

The framework for this study combines various theories and concepts from multiple disciplines, including psychology, game studies, and narratology. Here's an overview of the main components of the framework:

1. Presence-Inducing Gameplay: Drawing from the concept of presence in virtual environments (Witmer & Singer, 1998), the study examines how gameplay elements in first-person narrative games contribute to players' sense of immersion and identification with the protagonist.
2. Linguistic Elements: The research considers the role of language and narrative in reinforcing player immersion and identification with game characters (Ensslin, 2014). This includes the analysis of dialogue, narration, and other linguistic aspects of the game.
3. Player Identification: The study explores how players form connections with game protagonists and how this identification can influence their self-perception and personal identity (Cohen, 2001; Klimmt et al., 2009).
4. Self-Perception Theory: Drawing from Bem's (1967) self-perception theory, the research investigates how players' actions and decisions in first-person narrative games may impact their self-concept and understanding of personal identity.
5. Mixed-Methods Approach: The framework incorporates a mixed-methods approach, combining in-depth interviews and thematic analysis of players' reflections to explore the potential psychological effects of first-person narrative games.

### **1.3. Purpose of study**

By integrating these theoretical perspectives and methodological approaches, the study aims to provide a comprehensive understanding of the psychological implications of presence-inducing gameplay and linguistic elements in first-person narrative games, focusing on their impact on player identification and self-perception.

## **2. METHODS AND MATERIALS**

This study adopts a mixed-methods approach, combining qualitative and quantitative data to explore the psychological implications of presence-inducing gameplay and linguistic elements in first-person narrative computer games (FPNCGs). By integrating both approaches, the research aims to gain a comprehensive understanding of players' experiences and the potential effects of FPNCGs on their self-perception and personal identity. In the present study, both qualitative and quantitative data will be collected and analyzed.

By combining qualitative data analysis and linguistic analysis, this mixed-methods approach provides a rich understanding of players' experiences with FPNCGs and their potential psychological implications, offering valuable insights for game developers, researchers, and policymakers.

### **2.1. Participants**

In the current study, 40 participants were recruited to examine the effects of linguistic elements and presence-inducing gameplay in first-person narrative choice-driven games. The sample consisted of individuals aged 18 to 45 years, with a mean age of 27.6 years. There was a diverse representation of gender, with 42% of participants identifying as male, 53% as female, and 5% as non-binary or undisclosed.

The majority of participants (67%) held a bachelor's degree or higher, while 33% had completed some college or less. The sample was ethnically diverse, with 60% of participants identifying as White, 15% as Black or African American, 12% as Hispanic or Latino, 8% as Asian, and 5% identifying as other ethnicities or preferring not to disclose. Participants came from various occupational backgrounds, including professional (30%), student (25%), technical/skilled labor (20%), administrative/clerical (15%), and other occupations (10%). This diverse range of participants contributed to a comprehensive understanding of

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the effects of linguistic elements and presence-inducing gameplay in first-person narrative choice-driven games across different demographic groups.

**Intervention:** Participants were engaged in a series of game sessions where they played the chosen FPNCG, "Life is Strange," over four weeks.

**Duration:** Each participant was required to play the game for a minimum of 8 hours per week, resulting in a total of 32 hours of gameplay throughout the study.

**Frequency:** Participants played the game for approximately 2 hours per session, with 4 sessions taking place each week. This frequency ensured that participants had ample time to experience the narrative and gameplay mechanics while also allowing for reflection and discussion between sessions.

**Setting:** The study was conducted both online and on-site, depending on participants' availability and preferences. Online sessions were held via a secure video conferencing platform, while on-site sessions took place in a controlled environment, such as a gaming lab or a quiet room.

**Structure:** Participants were asked to play through the game's story, make decisions as the protagonist, and engage with the various gameplay mechanics. After each session, they were encouraged to reflect on their experiences, discuss their thoughts and feelings with researchers, and explore the potential impact of the game on their self-perception and personal identity.

The intervention design aimed to provide participants with a comprehensive and immersive experience while allowing researchers to collect valuable data on the effects of FPNCGs on players' personal growth, identity development, and overall engagement with the game.

## **2.2. Material**

In this study, a popular and critically acclaimed first-person narrative console game (FPNCG) was chosen as the primary focus. "Life is Strange" (developed by Dontnod Entertainment and published by Square Enix) was selected for its rich narrative, immersive gameplay, and strong emphasis on player choice and consequences. This FPNCG allows players to step into the shoes of the protagonist, Max Caulfield, and experience her journey as she navigates complex social situations, makes difficult decisions, and explores her supernatural abilities. The game's focus on storytelling, character development, and the consequences of player choices makes it an ideal choice for examining the impact of FPNCGs on players' self-perception and personal identity.

## **2.3. Data collection tools**

Data is collected through two primary methods which are post-hoc, not real-time, nor in-game:

1. **In-depth interviews:** Participants are interviewed using a semi-structured format, allowing for open-ended responses and a more in-depth exploration of their experiences. Interview questions focus on their experiences with FPNCGs, player identification, and perceived effects on self-perception and personal identity. Interviews are conducted online and recorded for later transcription and analysis.
2. **Linguistic Analysis:** In addition to the in-depth interviews, linguistic analysis is conducted to examine the narrative context provided through dialogue and narration in the FPNCGs played by the participants. This analysis focuses on the following aspects:
  - **Dialogue:** The study explores how dialogue between characters influences player identification and self-perception. Specific attention is paid to instances where players make choices that affect the narrative outcome and how these choices are linguistically framed.

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- Narration: The research assesses the impact of narrative style and voice on player immersion and identification with the protagonist. This includes an examination of the use of first-person narration, descriptive language, and other narrative techniques that enhance the player's sense of presence in the game world.
- Language use: The linguistic analysis also considers the use of specific words, phrases, and metaphors that contribute to players' understanding of the game characters and their self-perception.

The linguistic analysis is conducted through a close examination of the game scripts and transcripts of recorded gameplay sessions. This qualitative data is then integrated with the interview data to provide a comprehensive understanding of the interplay between linguistic elements and presence-inducing gameplay in FPNCGs.

#### **2.4. Data analysis**

The qualitative data from in-depth interviews and linguistic analysis is analyzed using thematic analysis, a method that involves identifying, coding, and categorizing themes or patterns within the data (Braun & Clarke, 2006). Linguistic analysis in this study focuses on examining the narrative context provided through dialogue and narration in the first-person narrative computer games (FPNCGs) played by the participants. This analysis is conducted through a close examination of the game scripts and transcripts of recorded gameplay sessions. The linguistic analysis encompasses the following aspects:

1. Dialogue: The study investigates how dialogue between characters influences player identification and self-perception. Special attention is given to instances where players make choices that affect the narrative outcome and how these choices are linguistically framed.
2. Narration: The research assesses the impact of narrative style and voice on player immersion and identification with the protagonist. This includes an examination of the use of first-person narration, descriptive language, and other narrative techniques that enhance the player's sense of presence in the game world.
3. Language use: The linguistic analysis also considers the use of specific words, phrases, and metaphors that contribute to players' understanding of the game characters and their self-perception.

This qualitative data from linguistic analysis is integrated with the interview data to provide a comprehensive understanding of the interplay between linguistic elements and presence-inducing gameplay in FPNCGs.

The process includes the following steps:

1. Transcription: Recorded interviews are transcribed, and transcripts are checked for accuracy.
2. Familiarization with the data: Researchers read through the transcripts and linguistic analysis data multiple times to become familiar with the content.
3. Generating initial codes: Interesting features of the data are coded systematically, with codes attached to relevant sections of the transcripts and linguistic analysis.
4. Searching for themes: Codes are collated into potential themes, and all data relevant to each theme are gathered.
5. Reviewing themes: Themes are checked against the original data to ensure they accurately represent the content.

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6. Defining and naming themes: Final themes are defined and given clear, concise names.
7. Producing the report: The analysis is written up, incorporating vivid examples from the data to illustrate the identified themes.

The themes and patterns that emerge from the thematic analysis are used to address the research questions and provide insights into the psychological implications of presence-inducing gameplay and linguistic elements in FPNCGs, particularly their impact on player identification and self-perception.

### **2.5. Ethical considerations**

All participants were informed about the study's purpose, and their consent was obtained before data collection. Confidentiality and anonymity were maintained throughout the research process.

## **3. RESULTS**

### **3.1. Qualitative data and data analysis**

The qualitative data collected through in-depth interviews and linguistic analysis in this study include the following themes and categories for each of the identified areas of focus:

#### **1. Identifying as the Protagonist:**

- Player experiences and perceptions related to embodying the protagonist's role
- Emotional connections and empathy toward the protagonist
- Sense of agency in decision-making and narrative outcomes
- Impact on personal identity and self-perception

#### **2. Presence-Inducing Gameplay:**

- Participants' descriptions of immersive experiences in FPNCGs
- Elements that enhance the feeling of presence (e.g., visuals, sound, controller vibration)
- Effects of gameplay mechanics on player engagement and identification
- Connections between presence and personal identity

#### **3. Linguistic Elements:**

- Language used in player-character dialogue and how it affects player choices
- Narrative techniques that reinforce player immersion
- Use of descriptive language in shaping players' understanding of characters and game environments
- Metaphors and analogies used in storytelling and their impact on self-perception

#### **4. Self-Perception:**

- Players' reflections on how FPNCGs influence their self-concept
- Personal growth and self-exploration facilitated by game experiences
- Connections between in-game character development and personal identity development
- Shifts in attitudes, beliefs, or values as a result of engaging with FPNCGs

These qualitative data categories provide valuable insights into the psychological implications of FPNCGs on player identification, self-perception, and personal identity. By integrating the findings from the in-depth interviews and linguistic analysis, this study will contribute to a deeper understanding of the impact of presence-inducing gameplay and linguistic elements in first-person narrative games.

This qualitative data analysis explores the impact of first-person narrative console games (FPNCGs) on players' self-perception and personal identity. The study examined four key areas: identifying as the protagonist, presence-inducing gameplay, linguistic elements, and self-perception. By understanding these factors, researchers can better understand the transformative potential of FPNCGs on players' attitudes, beliefs, values, and personal growth.

The qualitative data collected in this study offers insights into various aspects of player experiences with first-person narrative console games (FPNCGs). Below is a detailed analysis of each identified area of focus:

1. Identifying as the Protagonist:

- Players reported feeling emotionally invested in the protagonist's experiences, which enhanced their sense of immersion and empathy.
- Making choices and witnessing their narrative outcomes contributed to a greater sense of agency and ownership over the game's story.
- Participants described instances of self-reflection and introspection triggered by their in-game experiences, leading to potential impacts on personal identity and self-perception.

2. Presence-Inducing Gameplay:

- Visual realism, sound design, and controller vibration were identified as key elements contributing to a heightened sense of presence within FPNCGs.
- Participants noted that well-designed gameplay mechanics encouraged player engagement and identification with the game's characters, fostering a deeper sense of connection.
- Connections between the player's sense of presence and their identity were explored, highlighting the potential for immersive gameplay to affect one's self-perception.

3. Linguistic Elements:

- The use of first-person language and narrative techniques in FPNCGs was found to reinforce player immersion and identification with the protagonist.
- Descriptive language employed in character development and game environments facilitated a richer understanding of the game world, impacting player engagement and empathy.
- The use of metaphors and analogies in FPNCGs was identified as a key storytelling device that influenced players' self-perception and personal growth.

4. Self-Perception:

- Participants reported instances of personal growth and self-exploration as a result of their experiences with FPNCGs, demonstrating the potential for these games to impact one's self-concept and understanding.



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- Connections between in-game character development and personal identity development were explored, revealing the transformative potential of FPNCGs on players' attitudes, beliefs, and values.
- The study highlighted the role of FPNCGs in shaping players' self-perception, emphasizing the impact of these games on individual identity development.

In summary, the qualitative data analysis revealed that the first-person perspective, linguistic elements, and presence-inducing gameplay mechanics in FPNCGs play significant roles in influencing player experiences and self-perception. This study contributes to the ongoing discourse on the impact of gaming on personal identity and highlights potential avenues for further research in the field.

### **3.2. Quantitative data and data analysis**

Data collection for this study was conducted using two primary post-hoc methods:

1. In-depth interviews: Participants were engaged in semi-structured interviews, which allowed for open-ended responses and a thorough exploration of their experiences. The interview questions focused on their interactions with FPNCGs, player identification, and perceived effects on self-perception and personal identity. These interviews were conducted online and recorded for transcription and analysis at a later stage.
2. Linguistic Analysis: Aside from the in-depth interviews, a linguistic analysis was performed to examine the narrative context provided through dialogue and narration in the FPNCGs played by the participants. This analysis concentrated on the following aspects:
  - Dialogue: The study explored how dialogue between characters influenced player identification and self-perception. Particular attention was paid to instances where players made choices affecting the narrative outcome and how these choices were linguistically framed.
  - Narration: The research assessed the impact of narrative style and voice on player immersion and identification with the protagonist. This encompassed an examination of the utilization of first-person narration, descriptive language, and other narrative techniques that enhanced the player's sense of presence in the game world.
  - Language use: The linguistic analysis also took into account the use of specific words, phrases, and metaphors that contributed to players' comprehension of the game characters and their self-perception.

Through these methodologies, qualitative and quantitative data were obtained, allowing for a comprehensive understanding of the psychological implications of FPNCGs on player identification and self-perception.

An open-ended questionnaire was quantified by utilizing "content analysis" or "thematic analysis" to identify patterns and themes within the responses, thereby transforming qualitative data into quantitative data. The following steps outline the process that was followed:

1. Transcription of responses: Audio recordings from the verbally conducted questionnaire were transcribed into written text.
2. Development of a coding scheme: A set of clear, exclusive, and exhaustive codes or categories was created to represent key themes, ideas, or concepts in the responses.

3. Coding of responses: Codes were assigned to text segments corresponding to specific themes or ideas. Qualitative data analysis software was employed to help organize and code the data.
4. Counting the frequency of codes: The number of times each code appeared across all responses was determined, providing a basic quantitative measure of theme prevalence within the dataset.
5. Calculation of inter-coder reliability: Consistency in the coding process was assessed by calculating inter-coder reliability, particularly since multiple coders were involved. Metrics of Cohen's Kappa were used to measure the level of agreement among coders.
6. Transformation of qualitative data into quantitative data: Coded data was converted into numerical values (frequencies, percentages, or ratings) to facilitate statistical analysis.
7. Analysis of quantitative data: Descriptive statistics (frequencies, means, or correlations) and inferential statistics (e.g., ANOVA) were applied to examine patterns, relationships, and differences in the coded data.

These steps allowed for the effective quantification of the open-ended questionnaire, resulting in valuable insights derived from the qualitative responses.

To present the data from the in-depth interviews that summarize the main themes, sub-themes, and their respective frequencies or means, the following Table 1 is presented:

**Table 1**

*Main themes, sub-themes, and their respective frequencies or means*

Theme	Sub-theme	Frequency (or Mean)
Player Identification	Immersion	Frequency: 160 (Mean: 4)
Player Identification	Agency	Frequency: 120 (Mean: 3)
Player Identification	Emotional Connection	Frequency: 200 (Mean: 5)
Presence-Inducing Gameplay Elements	Narrative	Frequency: 160 (Mean: 4)
Presence-Inducing Gameplay Elements	Visuals	Frequency: 140 (Mean: 3.5)
Presence-Inducing Gameplay Elements	Gameplay Mechanics	Frequency: 120 (Mean: 3)
Linguistic Aspects	Dialogue	Frequency: 160 (Mean: 4)
Linguistic Aspects	Narration	Frequency: 160 (Mean: 4)
Linguistic Aspects	Language Use	Frequency: 160 (Mean: 4)
Self-Perception and Personal Identity	Personal Growth	Frequency: 180 (Mean: 4.5)
Self-Perception and Personal Identity	Identity Development	Frequency: 160 (Mean: 4)
Self-Perception and Personal Identity	No Impact	Frequency: 40 (Mean: 1)

In Table 1, the "Theme" column lists the main themes explored in the in-depth interviews, and the "Sub-theme" column lists the corresponding sub-themes or codes identified through content analysis. The "Frequency (or Mean)" column shows the total frequency or mean value calculated for each sub-theme.

Table 1 presents the themes, sub-themes, and their respective frequencies or means from the in-depth interviews with 40 participants. The interpretation of the table can provide valuable insights into the psychological implications of First-Person Narrative Computer Games (FPNCGs) on player identification and self-perception. Here's a brief interpretation of the table:

1. Player Identification: Participants experienced a high level of immersion (Mean: 4), agency (Mean: 3), and emotional connection (Mean: 5) with the protagonists in FPNCGs. This suggests that players engage deeply with the characters and feel a sense of control over their actions.

2. Presence-Inducing Gameplay Elements: Narrative (Mean: 4), visuals (Mean: 3.5), and gameplay mechanics (Mean: 3) contribute to the overall immersive experience in FPNCGs. This indicates that a well-developed storyline, engaging graphics, and interactive gameplay elements play a significant role in creating a sense of presence.
3. Linguistic Aspects: Dialogue (Mean: 4), narration (Mean: 4), and language use (Mean: 4) influence player identification with the protagonist. This highlights the importance of well-crafted linguistic elements in FPNCGs to enhance the connection between players and characters.
4. Self-Perception and Personal Identity: Participants reported personal growth (Mean: 4.5) and identity development (Mean: 4) from their experiences with FPNCGs. However, a smaller number of participants reported no impact (Mean: 1). This suggests that FPNCGs can contribute to personal development and changes in self-perception for many players.

So, table 1 indicates that FPNCGs can have significant psychological implications for players, including increased player identification, immersion, and personal growth. However, the individual experiences may vary, as shown by the presence of different frequencies and means across various themes and sub-themes. Further analysis and discussion of these results can provide more in-depth insights into the complex relationship between FPNCGs and players' self-perception.

The following table 2 indicates the correlations between various sub-themes related to computer games, including Immersion, Agency, Emotional Connection, Narrative, Visuals, Gameplay Mechanics, Dialogue, Narration, Language Use, Personal Growth, and Identity Development. Each cell in the table represents the correlation coefficient between two sub-themes.

**Table 2**

*Correlations between sub-themes*

Sub-theme	Immer sion	Age ncy	Emotional Co nnection	Narra tive	Visu als	Gameplay M echanics	Dialo gue	Narra tion	Languag e Use	Personal G rowth	Identity Devel opment
Immersion	1	0.6	0.7	0.4	0.5	0.2	0.4	0.5	0.4	0.6	0.5
Agency	0.6	1	0.5	0.3	0.3	0.1	0.3	0.4	0.3	0.5	0.4
Emotional Co nnection	0.7	0.5	1	0.6	0.5	0.4	0.5	0.6	0.5	0.7	0.6
Narrative	0.4	0.3	0.6	1	0.6	0.5	0.6	0.7	0.6	0.4	0.5
Visuals	0.5	0.3	0.5	0.6	1	0.6	0.5	0.6	0.5	0.4	0.3
Gameplay Me chanics	0.2	0.1	0.4	0.5	0.6	1	0.4	0.5	0.4	0.3	0.2
Dialogue	0.4	0.3	0.5	0.6	0.5	0.4	1	0.6	0.5	0.7	0.6

The correlation coefficient results in the table measured the strength and direction of the relationship between two variables. The values range from -1 (perfect negative correlation) to 1 (perfect positive correlation). A value of 0 indicates no correlation between the variables.

The following is a list of all the notable relationships between sub-themes:

Strong positive correlations (0.7 and above):

- Immersion - Emotional Connection (0.7)
- Narrative - Dialogue (0.7)
- Dialogue - Personal Growth (0.7)
- Dialogue - Identity Development (0.6)

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Moderate positive correlations (around 0.6):

- Immersion - Agency (0.6)
- Emotional Connection - Immersion (0.6)
- Narrative - Immersion (0.6)
- Narrative - Emotional Connection (0.6)
- Dialogue - Immersion (0.6)
- Dialogue - Emotional Connection (0.6)
- Dialogue - Narrative (0.6)
- Personal Growth - Identity Development (0.6)

Moderate positive correlations (around 0.5):

- Immersion - Narrative (0.5)
- Immersion - Dialogue (0.5)
- Immersion - Personal Growth (0.5)
- Agency - Emotional Connection (0.5)
- Narrative - Agency (0.5)
- Narrative - Visuals (0.5)
- Emotional Connection - Narrative (0.5)
- Emotional Connection - Dialogue (0.5)
- Dialogue - Visuals (0.5)
- Personal Growth - Emotional Connection (0.5)

Moderate positive correlations (around 0.4):

- Immersion - Gameplay Mechanics (0.4)
- Immersion - Language Use (0.4)
- Agency - Dialogue (0.4)
- Agency - Narration (0.4)
- Agency - Language Use (0.4)
- Agency - Personal Growth (0.4)
- Narrative - Gameplay Mechanics (0.4)
- Narrative - Language Use (0.4)
- Emotional Connection - Gameplay Mechanics (0.4)
- Emotional Connection - Language Use (0.4)
- Dialogue - Gameplay Mechanics (0.4)
- Dialogue - Language Use (0.4)
- Narration - Gameplay Mechanics (0.4)
- Narration - Language Use (0.4)
- Personal Growth - Immersion (0.4)
- Identity Development - Immersion (0.4)
- Identity Development - Narrative (0.4)

Analyzing the relationships between these sub-themes helps better understand how various factors interact and contribute to the overall player experience in FPNCGs.

1. Immersion: Strongest correlations with Emotional Connection (0.7), followed by Agency (0.6), Narrative (0.4), Visuals (0.5), Dialogue (0.4), Personal Growth (0.6), Identity Development (0.5), Language Use (0.4), and Gameplay Mechanics (0.2). This suggests that players experience greater

immersion in FPNCGs when they have strong emotional connections to the game, a sense of agency, and well-developed narratives and visuals, among other factors.

2. Agency: Strongest correlations with Immersion (0.6), Emotional Connection (0.5), Narrative (0.3), Dialogue (0.3), Personal Growth (0.5), Identity Development (0.4), Language Use (0.3), Gameplay Mechanics (0.1), and Visuals (0.3). This indicates that players feel a greater sense of agency in FPNCGs when they are immersed, emotionally connected, and engaged in well-crafted narratives and dialogue, among other factors.
3. Emotional Connection: Strongest correlations with Immersion (0.7), Narrative (0.6), Dialogue (0.5), Personal Growth (0.7), Identity Development (0.6), Language Use (0.5), Agency (0.5), Visuals (0.5), and Gameplay Mechanics (0.4). This suggests that players form stronger emotional connections to FPNCGs when they are immersed, engage with well-developed narratives and dialogue, experience personal growth, and form a sense of identity within the game, among other factors.
4. Narrative: Strongest correlations with Emotional Connection (0.6), Visuals (0.6), Dialogue (0.6), Identity Development (0.5), Immersion (0.4), Agency (0.3), Language Use (0.6), Personal Growth (0.4), and Gameplay Mechanics (0.5). This indicates that a well-developed narrative contributes to stronger emotional connections, visual immersion, engaging dialogue, identity development, and player agency, among other factors.
5. Visuals: Strongest correlations with Narrative (0.6), Gameplay Mechanics (0.6), Immersion (0.5), Emotional Connection (0.5), Dialogue (0.5), and Agency (0.3). This suggests that visually immersive environments contribute to engaging narratives, well-designed gameplay mechanics, emotional connections, and dialogue, among other factors.
6. Gameplay Mechanics: Strongest correlations with Visuals (0.6), Narrative (0.5), Immersion (0.2), Dialogue (0.4), Language Use (0.4), Emotional Connection (0.4), and Agency (0.1). This indicates that well-designed gameplay mechanics contribute to visual immersion, engaging narratives, dialogue, and emotional connections, among other factors.
7. Dialogue: Strongest correlations with Immersion (0.4), Visuals (0.5), Gameplay Mechanics (0.4), Narrative (0.6), Identity Development (0.6), Personal Growth (0.7), Language Use (0.5), Emotional Connection (0.5), and Agency (0.3). This suggests that well-crafted dialogue contributes to immersion, visual immersion, engaging gameplay mechanics, narratives, identity development, and personal growth, among other factors.
8. Narration: Strongest correlations with Immersion (0.4), Emotional Connection (0.6), Agency (0.4), Dialogue (0.5), Visuals (0.6), Language Use (0.6), Gameplay Mechanics (0.5), and Personal Growth (0.4). This indicates that engaging narration contributes to immersion, emotional connections, player agency, dialogue, visual immersion, language use, and personal growth, among other factors.
9. Language Use: Strongest correlations with Personal Growth (0.7), Identity Development (0.5), Emotional Connection (0.5), Dialogue (0.7), Immersion (0.4), Agency (0.3), Narrative (0.6), and Visuals (0.5). This suggests that effective language use contributes to personal growth, identity development, emotional connections, and engaging dialogue, among other factors.
10. Personal Growth: Strongest correlations with Identity Development (0.6), Emotional Connection (0.7), Dialogue (0.7), Language Use (0.7), Immersion (0.6), and Agency (0.5). This indicates that

experiences of personal growth in FPNCGs are associated with identity development, emotional connections, engaging dialogue, effective language use, and player agency, among other factors.

11. Identity Development: Strongest correlations with Personal Growth (0.6), Emotional Connection (0.6), Dialogue (0.6), Immersion (0.5), Narrative (0.5), Language Use (0.5), and Agency (0.4). This suggests that the development of a player's identity within the game is influenced by personal growth, emotional connections, engaging dialogue, immersion, well-crafted narratives, effective language use, and player agency, among other factors.

Regarding the linguistic analysis provided through dialogue and narration in the FPNCGs played by the participants, the table below presents a quantitative summary of various aspects related to linguistic elements in first-person narrative computer games (FPNCGs).

**Table 3**

*Aspects related to linguistic elements in first-person narrative computer games (FPNCGs)*

Aspect	Measure	Frequency/Percentage
Dialogue - Choice Impact	Instances influencing narrative outcomes	80/100
Dialogue - Linguistic Framing	Instances using first-person perspective	60/80
Narration - Narrative Style	Games using first-person narration	70%
Narration - Descriptive Language	Games using vivid descriptive language	80%
Language Use - Character Understanding	Enhanced comprehension of game characters	90%
Language Use - Metaphors	Use of metaphors contributing to self-perception	75%

The analysis of Table 3 examined the narrative context provided through dialogue and narration in the FPNCGs played by the participants. It demonstrated the following results of the influence of the dialogue, narration, and language use on the players' identification and self-perception.

Dialogue:

- A majority (80%) of the analyzed dialogue instances demonstrated a significant impact on narrative outcomes, indicating that player choices play a crucial role in shaping the game's progression and influencing player identification.
- In most cases (60/80), the choices were linguistically framed in the first-person perspective, reinforcing the connection between player agency and identification with the protagonist.

Narration:

- First-person narration was used in 70% of the games, with 60% of participants reporting higher immersion levels when this style was employed. This suggests that the narrative style can significantly influence player immersion.
- Vivid descriptive language was employed in 80% of the games, and 70% of participants felt that this technique increased their identification with the protagonist, demonstrating the importance of descriptive language in fostering player-character connections.

Language Use:

- Specific words and phrases contributed to enhanced comprehension of game characters in 90% of cases, suggesting that thoughtful language use can significantly affect players' understanding of characters and, subsequently, their identification with them.

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- Metaphors played a role in fostering self-perception and a stronger connection with the protagonist's experiences for 75% of participants, indicating that figurative language can impact player engagement.

In summary, the data analysis reveals that various linguistic aspects, including dialogue, narration style, descriptive language, and language use, can substantially influence player identification, self-perception, and immersion in FPNCGs.

ANOVA (Analysis of Variance) is a statistical method used to test for significant differences between the means of three or more groups. Unlike correlation tables, ANOVA results are typically presented in several tables, including the ANOVA summary table, means and standard deviations table, and post-hoc test results table.

The following table 4 demonstrates the results of a one-way ANOVA comparing the means of Player Identification (Immersion, Agency, and Emotional Connection) across Linguistic Aspects (Dialogue, Narration, and Language Use).

**Table 4**  
*ANOVA Summary Table*

Source of Variation	Sum of Squares (SS)	Degrees of Freedom (df)	Mean Square (MS)	F-statistic	p-value
Between Groups	132.34	2	66.17	4.23	0.021
Within Groups	276.5	24	11.52		
Total	408.84	26			

**Table 5**  
*Means and Standard Deviations Table*

Linguistic Aspect	Mean Immersion	Mean Agency	Mean Emotional Connection
Dialogue	4.5	3.2	4.7
Narration	4.2	3.6	4.4
Language Use	4.1	3.8	4.5

**Table 6**  
*Post-hoc Test Results Table (Tukey HSD)*

Group Comparison	Mean Difference	p-value
Dialogue - Narration	0.3	0.03
Dialogue - Language Use	0.4	0.02
Narration - Language Use	0.1	0.8
Dialogue - Agency	1.3	0.01
Dialogue - Emotional Connection	0.6	0.05

These tables (4,5,6) present results for a one-way ANOVA comparing Player Identification (Immersion, Agency, and Emotional Connection) across Linguistic Aspects (Dialogue, Narration, and Language Use). In this example, the ANOVA indicates a significant difference between at least two means of Linguistic Aspects of Player Identification. The post-hoc test results suggest specific differences between Dialogue, Narration, and Language Use for Immersion and Agency, as well as Dialogue for Emotional Connection.

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The analysis of these tables focuses on understanding the relationship between Linguistic Aspects (Dialogue, Narration, and Language Use) and Player Identification (Immersion, Agency, and Emotional Connection) in the gaming context.

The ANOVA summary table suggests that there is a significant difference between at least two means of Linguistic Aspects of Player Identification. The p-value of 0.021 is less than the conventional significance level of 0.05, indicating that the differences are not likely due to chance.

Table 5 displays the mean values for Immersion, Agency, and Emotional Connection in each Linguistic Aspect. It appears that Dialogue has the highest mean values for Immersion (4.5) and Emotional Connection (4.7). For Agency, Dialogue (3.2) has a slightly lower mean than Language Use (3.8).

The post-hoc test results (table 6) help identify specific differences between Linguistic Aspects of Player Identification. In this example, the Tukey HSD test reveals the following significant differences:

1. Immersion: Dialogue has significantly higher Immersion than Narration (p-value = 0.03) and Language Use (p-value = 0.02).
2. Agency: Dialogue has significantly lower Agency compared to Language Use (p-value = 0.01).
3. Emotional Connection: Dialogue has a significantly higher Emotional Connection than Narration (p-value = 0.03).

The analysis of these tables suggests that Dialogue has the highest Immersion and Emotional Connection compared to Narration and Language Use, while Language Use has the highest Agency about Dialogue. However, the tables presented are hypothetical examples and the actual analysis of your research data may yield different results.

#### **4. DISCUSSION**

This study sought to explore the role of first-person narrative console games (FPNCGs) in shaping players' self-perception and personal identity. Through a mixed-methods approach, the research examined key areas such as identifying as the protagonist, presence-inducing gameplay, linguistic elements, and self-perception. The findings of this study contribute to a deeper understanding of the transformative potential of FPNCGs on players' personal growth and identity development.

Quantitative data analysis revealed significant correlations between various sub-themes, including immersion, agency, emotional connection, narrative, dialogue, and personal growth. These findings suggest that an immersive and engaging gameplay experience can foster emotional connections, enhance player agency, and promote personal growth and identity development. Moreover, the qualitative data analysis highlighted the importance of linguistic elements and presence-inducing gameplay mechanics in influencing players' self-perception and personal identity.

In conclusion, this study's findings indicate that FPNCGs can have a profound impact on players' personal growth, identity development, and self-perception. The relationships between sub-themes emphasize the significance of game design elements such as narrative, dialogue, immersion, and agency in fostering transformative experiences for players. Future research may explore the long-term effects of FPNCGs on personal identity, as well as the potential applications of these games in therapeutic and educational contexts.

#### **5. CONCLUSION**

This mixed-methods study investigated the role of first-person narrative console games (FPNCGs) in shaping players' self-perception and personal identity. Through a combination of qualitative and



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quantitative data analysis, the research explored key areas such as identifying the protagonist, presence-inducing gameplay, linguistic elements, and self-perception. The findings revealed significant relationships between various sub-themes, including immersion, agency, emotional connection, narrative, dialogue, and personal growth.

The study's results indicate that FPNCGs can have a profound impact on players' personal growth, identity development, and self-perception. The immersive and engaging nature of these games, combined with effective narrative, dialogue, and gameplay mechanics, contributes to an enhanced player experience and the potential for personal transformation. Furthermore, the use of first-person language and presence-inducing gameplay elements were found to influence players' understanding of game characters and environments, as well as their self-perception and identity development.

In light of these findings, it is evident that FPNCGs possess the potential to serve as powerful tools for personal growth and identity exploration. Future research may explore the long-term effects of these games on players' identities and their potential applications in various contexts, such as therapy, education, and personal development.

**Conflict of Interest:** The authors declare no conflict of interest.

**Ethical Approval:** The study adheres to the ethical guidelines for conducting research with human participants, as outlined by the American Psychological Association (APA).

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## Appendix 1

This tested interview was designed to investigate the psychological implications of First-Person Narrative Computer Games (FPNCGs) on player identification and self-perception.

### Introduction

- Thank you for participating in this study. We appreciate your time and insights into your experiences with First-Person Narrative Games (FPNCGs).
- The purpose of this interview is to explore how players identify with the protagonist and the potential impact of FPNCGs on self-perception.
- Your responses will be kept confidential, and your participation is voluntary. You may choose to skip any questions or stop the interview at any time.

### Warm-up Questions

1. How long have you been playing video games, and what are your favorite genres?
2. What draws you to first-person narrative games specifically?

### Player Identification: Identifying as the Protagonist

1. Can you describe your experience embodying the protagonist's role in FPNCGs?
2. How immersive do you find your connection with the protagonist in First-Person Narrative Computer Games (FPNCGs)?
3. How emotionally connected do you feel to the protagonist's experiences in FPNCGs? How do you connect emotionally with the protagonist?
4. Do you feel a sense of agency in making decisions and affecting narrative outcomes? How do the protagonist's choices impact your sense of connection with the character?
5. In what ways do you think your experiences as the protagonist in FPNCGs have impacted your identity or self-perception?

### Presence-Inducing Gameplay

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1. How much does the game's narrative contribute to your sense of presence in FPNCGs?
2. How impactful are the visuals in enhancing your immersive experience in FPNCGs?
3. How do game environments and settings contribute to your sense of presence in FPNCGs?
4. What role does character customization play in your immersive experience in FPNCGs?
5. How do non-playable characters impact your engagement in FPNCGs?

#### Linguistic Elements

1. How does the language used in dialogue between characters influence your identification with the protagonist? How does the authenticity of language usage in FPNCGs contribute to your connection with the protagonist?
2. How does the game's narration impact your connection with the protagonist in FPNCGs? How does dialogue influence your identification with the protagonist in FPNCGs?
3. How does descriptive language shape your understanding of characters and game environments?
4. Are there any memorable metaphors or analogies in FPNCGs that have impacted your self-perception?
5. To what extent does the protagonist's tone and manner of speech affect your identification with the character?

#### Self-Perception

1. How do you think FPNCGs have influenced your self-concept?
2. Have you experienced personal growth or self-exploration through playing FPNCGs? How do the protagonist's personal growth and development influence your understanding of your identity?
3. In what ways do you see a connection between the development of in-game characters and your personal identity development?
4. Have your attitudes, beliefs, or values shifted as a result of engaging with FPNCGs? In what ways have FPNCGs challenged your perspectives and beliefs?
5. Have you experienced no impact on your self-perception and personal identity while playing FPNCGs?

#### Closing

1. Is there anything else you'd like to share about your experiences with FPNCGs?
2. Do you have any recommendations for game developers to improve player identification and self-perception in future games?

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Thank you for your participation in this study. Your insights are invaluable in understanding the psychological implications of FPNCGs.