Character attachment in team-based first person shooter game with respect to the role in the combat among Korean young gamers

Doo Heon Song¹, Seunghun Lee²
¹,²Department of Computer Games, Yong-In SongDam College, Republic of Korea
¹,²Department of Virtual Reality Contents, Young San University, Republic of Korea

Article Info

ABSTRACT

Character attachment have been studied thoroughly from the view of psychology and media researches. In game playing, the player-avatar relationship is a form of character attachment and affects a good game design as well as management systems such as character customizing and in game purchasing policy. In this paper, we investigate such player-avatar relationship on the theme of team-based FPS where in general the attachment is not expected to be high. However, from the online survey for Tom Clancy’s Rainbow 6 Siege mania groups, we find that there are different character attachment patterns with respect to the role of players in the team—attacker, defender, and supporter. It shows that attackers think avatar as an ‘object, but the defenders show more ‘avatar as others’ than the attackers. The supporters show high responsibility for the avatar and their play style is most like ‘avatar as symbiote’ manner.

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1. INTRODUCTION

Character identification is a psychological term used in literary and film studies to describe a psychological relationship between the spectator and a fictional character whereby the individual assimilates an aspect, property, or attribute of the other, i.e., the core meaning of identification is simple-to-be like or to become like another. This concept of ‘identification’ is studied as early as Freud’s work [1] and such relationship works positively in video game playing in extending the enjoyment [2]. This audiences’ dispositions toward fictitious characters has been thoroughly studied in media entertainment research in that how audiences’ moral salience might explain their reactions to character actions [3], narrative appeal [4], and how audiences react to media characters as if they were actual, physical people [5]. There have been many studies to verify the existence of such phenomenon in video game playing [6-8] and it influences game playing style as well [9].

In video games, however, gamers do not merely have a felt connection with their characters, but there exists an actual, tangible connection between the gamer and a fully functional, completely controllable avatar [4]. Thus, we use the concept of character attachment that is well summarized in [10] as individual’s feeling of: i) a sense of friendship, ii) a sense of identification with a character, iii) if the individual can believe that the digital image is a real being, iv) if the individual feels a sense of responsibility to the
character, and v) if the individual can reconcile the notion of control with both the friendship and identification aspects of the relationship. Character attachment has been found to be positively associated with game enjoyment and time spent playing games and motivations to play games for fantasy, diversion, and social interaction purposes [10].

This special emotional engagement between the player and game character can explain different behavior of prosocial/antisocial players [11] and different style of control and effect in gaming [12]. Other researches of character attachment in video games include the relationship between character attachment and presence [13], and player-avatar interaction [14-17]. The player-avatar interaction studies induce four types of player-avatar relationship such as avatar-as-object, avatar-as-me, avatar-assymbiote, and avatar-as-other. When the player perceives the avatar as an object, the player-avatar relationship is nonsocial, and the player treats the avatar as merely a game piece or a tool which helps the player to achieve ingame goals; when the player perceives the avatar as him/herself, the player highly identifies with the avatar; when the player perceives as the avatar as a symbiote, the avatar is experienced as part of the player and the player is also part of the avatar; when the player perceives the avatar as another, the player and avatar relationship is social, and the player experiences the avatar as a distinct social entity [16].

One of the reasons that people should study player-avatar relationship is that the existence of such close tie affects game design and management in that close player-avatar relationship increases the desire of customizing characters [18] and thus increase in-game purchase [19]. Not only that, avatar death frequency is negatively correlated with player feelings of closeness (i.e., shared feelings) with their avatars and death penalty severity is positively correlated with player perceptions of their avatars as functional tools [20]. While previous studies in this domain usually explore the general aspect of game playing regardless of specific game genre, a study reveals that a certain genre of the video game playing might induce different player avatar emotional relationship by looking at romantic video games or dating simulation games in which players attempt to foster a romantic relationship with a chosen game character [21]. This result implies that there may exist some genre-specific aspects of player-avatar relationship.

In this paper, we investigate player-avatar relationship within a specific genre-team-based first person shooter (FPS). According to the recent report, FPS is the second most favorite genre in Korea only next to the massively multiplayer online role-playing games (MMORPG) regardless of age and gender [22, 23]. Also, team based FPS games have different roles inside the teams with specialized skills and weapons [24]. For the popular FPS game Overwatch, the dealer role plays the role of the main character in the team, but the rear support, or healer, is also important for the team's victory and tanker takes a voluntary sacrificing role to contribute for the team’s winning. And those who seem to lack skills or want to be less responsible for winning or losing usually takes 'sub' role. However, disagreements often arise between gamers about team composition and the outcome of the match. Often, it develops to attack female gamers in the community [25].

Also, FPS genre games have some background story and plots to fulfill team’s goal in the game, however, the effect of storytelling is not as deep as other genre in density [26]. Rather, team’s winning is the highest goal of players but there are enough number of characters that the player can choose within the given roles in combat situation. Thus, in this paper, we will explore the following research question by empirical player survey within team-based FPS. Research Question: Will player-avatar relationship of team-based FPS exhibit different patterns with respect to the player’s role in the game?

2. METHOD
2.1. Game of investigation: Tom Clancy’s Rainbow Six Siege
We choose Tom Clancy’s Rainbow Six Siege (Rainbow6 afterwards in this paper) as the game to be used in our online survey. Rainbow6 is a team-based FPS game developed and published by Ubisoft in 2015 [27]. The game has many play modes such as Hostage, Bomb, Secure area, Terrorist hunt etc. but in most cases of players vs. players (PvP), it is a cooperative multiple player games of 5-players squad. Players take on the role of either attackers or defenders and must fight against each other. Unlike other FPS games, it is characterized by being able to use various crews with special abilities depending on the team and strategically using walls that can be partially pierced or reinforced in the map.

The avatars in this game, called operators, have a set of primary and secondary weapons that can be used for each unit. In general, weapons of the attacking side composed of those advantageous for long-range firefighting, such as assault rifles, light machine guns, and designated gunners whereas the defensive side has weapons that are advantageous for short-range firefighting, such as submachine guns and shotguns. There are 23 operators in each of the attacking and defending teams [28]. In order to help players to choose their favorite avatars, Rainbow6 provides an avatar positioning maps for each side to reveal that how high-tiered players choose each operators(pick rate) and how frequently that avatar wins in the game(win-rate) as shown in Figures 1 and 2 [29].
As one can see from above figures, operators are well balanced in pick rate and winning rate in that higher level players frequently choose operators of their trait in spite of relatively low winning rate which seems to be the highest goal of the game. Since this is a team game, team balance is crucial in winning and each operator has different ability and skills thus player’s pick of the operators may exhibit the player’s play habit or attachment to the avatar.

2.2. Measurement of player-avatar relationship

In player-avatar relationship studies, many different measuring schemes exist but those developed by Lewis et al. [10] are widely used with high reliability. That question are set consists of 4 factors of 17 questions and factors are identification/friendship, suspension of disbelief (intentional avoidance of critical thinking or logic in examining something surreal), control, and responsibility. In this research, unfortunately, when we took a pilot test in early 2019, we found that young Korean students had difficulty in differentiating several questions so that they tend to answer the same on several different questions of the same factor. Thus, we reduced the question are as 9 questions of 4 factors as the original one so that subjects would not be confused with the meaning and intention of the questions as shown in Table 1. We measure the relationship by using Likert 5-point scale from 1 (strongly disagree) to 5 (strongly agree). Factor 2 (suspension of disbelief) is negatively associated with the relationship thus we coded the score of factor-2 (Q4, Q5) reversely as instructed in [10].
3. SURVEY RESULT AND ANALYSIS

The online survey was conducted in June 2019 at the FPS mania Forum Bioshock Gallery (https://cafe.naver.com/fpsgame) where FPS manias are gathered. We ask only experienced Rainbow6 users should answer the question. With that limitation, only 55 subjects were willing to answer all questions and there was no female subject in this study. Players are grouped into three categories: attackers, defenders, and supporters. There were 18 attackers, 11 defenders, 23 supporters and 3 Mixed players who play many roles depending on the given environment. 70% were in their 20’s of age and 20% of teenagers but there was no significant age effect on our study goals.

Underlined scores in Table 2 show statistically significant differences by Scheffe’s method. Overall, the attackers group shows the lowest and only significantly different scores thus we may safely say that attackers have lower character attachment rate. However, when we analyze three groups (Mixed group has only 3 subjects thus their statistics are not meaningful.) with respect to each factor, several interesting patterns are found.

For factor 1 that represents identification/friendship, the defenders’ group is significantly higher than others although their average score is just in the middle (neutral) for the absolute score. That means that FPS users have low character attachment in general, but defenders’ group have some emotional connections to their chosen avatars.

For factor 2 that represents suspension of disbelief, the attacker’s group show higher score than defenders’ group since their failure cause the death or severe penalty of the game.

For factor 3 that represents control, all groups enjoy controlling their avatars (Q6) but in Q7, the supporters group have the most frustrated emotion since their failure frequently cause team’s defeat.

For factor 4 that represents the responsibility, all groups understand avatar’s need (Q8, no difference among groups) but the supporters group exhibit the highest responsibility in Q9. Combining Q7 and Q9, we can feel that the supporters’ group is most sacrificing one for the team’s winning.
4. CONCLUSION

In this paper, we investigate the player-avatar relationship score as the measure of character attachment in team-based FPS game playing. Although this genre games have some story telling scheme, that is not the main goal of the game thus it was expected that the overall character attachment level would not be high. However, our focus was how this character attachment patterns are different with respect to the roles in the team-based FPS game.

We choose Tom Clancy’s Rainbow 6 Siege as our theme game and took an online survey at the military game manias’ café. The theme game has three different roles-attack, defence, support. By using simplified 9 questionnaire on 4 different factors of character attachment, subject shows different patterns. Attackers have the lowest character attachment level among three groups and extremely low identification score (Factor 1) but have the highest score on suspension of disbelief. That means this group plays the game with avatars as ‘object’. Defenders show the highest identification (still not high in absolute value) and low in suspension of disbelief. There is no clear pattern for defenders but probably a mixture of ‘avatar as object’ and ‘avatar as other’. Supporters group show highest responses in Q7 and Q9. This pattern of supporters’ group is also not typical but probably similar to ‘avatar as symbiote’ except low identification score. Since this is probably one of the first few studies of exploring FPS players on the character attachment theme, the result encourages that a cross cultural studies are necessary in the future and hopefully we should prepare the reliable measurement for Korean players or East Asian players who seem to have different emotional pattern from western gamers.

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BIographies of AUTHORS

Doo Heon Song received his B.S. degree in Statistics & Computer Science from Seoul National University, Korea and M.S. degree in Computer Science from the Korea Advanced Institute of Science and Technology in 1983. He received his Ph.D. Candidate Certificate in Computer Science from the University of California at Irvine in 1994. He has been a professor at the Department of Computer Games, SongDam College, Korea, since 1997. He has served as an associate editor for Journal of Multimedia Signal Processing and Information Hiding (SCOPUS/EI) and The Journal of Information and Communication Convergence Engineering (SCOPUS). His research topics include artificial intelligence, medical image processing, machine learning and video game design & culture.

Seunghun Lee received his B.S., M.S., and Ph. D. in Computer Science from Soongsil University, Korea in 2002, 2005, 2012, respectively. He had been the president of Korea Game Developer’s Association during 2006-2012. He has been a professor at the Department of Game Contents, Youngsan University, Korea since 2011 and he opens the first ever academic Department of Virtual Reality Contents in Korea since 2017 at the same university. Currently, he leads the VR contents committee in Korea Mobile Game Association and related with many game exhibitions such as G-star. His research interests include software engineering, software modelling of video game design, and VR contents design.