# Game Engineering Unit 2

Q1) What are the concepts applied to video games and Gamification?

Ans:

There are several concepts that are commonly applied to video games and gamification, including:

Points and Rewards: Games often use points and rewards to motivate players and provide a sense of accomplishment. Gamification uses this concept to encourage users to engage with a system by rewarding them for completing certain actions or achieving specific goals.

Progression and Levels: Games often have levels or stages that players must progress through in order to complete the game. Gamification applies this concept to encourage users to progress through a series of steps or levels in order to achieve a desired outcome.

Feedback and Feedback Loops: Games provide immediate feedback to players, letting them know if they are doing well or need to improve. Gamification uses this concept to provide users with real-time feedback on their progress, encouraging them to continue engaging with the system.

Competition and Social Comparison: Games often involve competition and social comparison, allowing players to compare their performance to others and compete for high scores or rankings. Gamification uses this concept to encourage users to compete against each other or strive to achieve certain goals, such as completing a certain number of tasks or earning a certain number of points.

Narrative and Storytelling: Games often have a narrative or storyline that guides the player through the game and provides context for the gameplay. Gamification can use storytelling to create a sense of meaning or purpose behind user actions, helping to motivate users to engage with the system.

Q2) Explain Gamification in Replaying History.

Ans:

Gamification can be applied in Replaying History by using game design elements to make the experience of learning history more engaging and interactive. This can be done by incorporating elements such as points, badges, leaderboards, and quests into the learning experience.

For example, a history class could use a gamified approach to learning about a specific time period or event. The students could be presented with a series of challenges or quests that require them to research and learn about various aspects of the time period or event, such as the political, social, and economic factors that contributed to it. As they complete each challenge, they could earn points and badges to track their progress and compete with their classmates.

Gamification can also be used to create simulations or role-playing games that allow students to experience historical events firsthand. For example, students could participate in a simulation of the American Revolution, taking on the roles of historical figures and making decisions based on the real-life events of the time period. This approach can help students develop a deeper understanding of historical events and how they relate to modern-day issues.

Overall, gamification can make learning history more engaging and interactive by incorporating game design elements that help students stay motivated and interested in the subject matter.

Q3) Explain communicology, apparatus and post history in Re-framing context.

Ans:
In the context of gamification, communicology, apparatus, and post-history can all play important roles in shaping the way that games are designed and experienced.

Communicology is relevant in gamification because it involves understanding how communication functions within various contexts. In game design, this means thinking about how players communicate with each other and with the game itself, as well as how the game communicates information to players through its mechanics, visuals, and sound design.

Apparatus is also important in gamification because it refers to the tools and technologies that are used to communicate. In game design, this can include things like controllers, touchscreens, and VR headsets, as well as the various systems and platforms that games are played on.

Post-history is relevant in gamification because it acknowledges that history is an ongoing process that continues to shape the present. This means that games can be influenced by the cultural and historical contexts in which they are developed and played. For example, a game that is developed in Japan may be influenced by Japanese history and culture, and this may be reflected in the game's story, characters, and design.

Overall, by considering these concepts within the framework of re-framing context, game designers can create games that are more engaging, meaningful, and relevant to players' experiences and cultural contexts.

Q4) Explain player types in gaming competition.
Ans:
In game engineering, player types refer to the different categories of players that participate in gaming competitions. Understanding player types is important in game engineering because it helps designers create games that are engaging and appealing to different types of players.

Here are some common player types that are often considered in gaming competition:

Casual Players: These players are typically new to gaming and play for fun and relaxation. They may not be very competitive and may prefer games with simpler mechanics and lower difficulty levels.

Hardcore Players: These players are highly competitive and enjoy games with complex mechanics and high difficulty levels. They may spend a lot of time practicing and perfecting their skills in order to perform well in competitions.

Social Players: These players enjoy gaming as a way to connect with others and may prioritize playing with friends or participating in social events. They may prefer games that allow for collaboration and communication.

Achiever Players: These players are motivated by achieving goals and earning rewards. They may enjoy games with clear objectives and structured progression systems.

Explorer Players: These players are motivated by discovering new things and exploring game worlds. They may prefer games with open worlds and hidden secrets to uncover.

Creative Players: These players enjoy using games as a creative outlet, such as creating and sharing custom content or participating in modding communities.

By understanding the different types of players in gaming competition, game designers can create games that appeal to a wider range of players and provide a more engaging and enjoyable experience for everyone involved.

27 March 2023 12:03 PM

Q5) What is motivation? Why it is required in game engineering.
Ans:
Motivation is the driving force that inspires individuals to take action, pursue goals, and achieve success. In game engineering, motivation is important because it is what encourages players to engage with and enjoy games.

There are several reasons why motivation is required in game engineering:

Player Engagement: In order to keep players engaged with a game, it must be motivating and rewarding. This can be achieved through various game design elements such as providing clear objectives, a sense of progression, and rewards for achieving milestones.

Player Retention: Motivation is also important for player retention, as players who are motivated to continue playing a game are more likely to stick with it for a longer period of time. This is especially important in games that have ongoing content updates or multiplayer components.

Competition: In competitive games, motivation is essential for players to strive towards improving their skills and competing against others. Providing rewards and recognition for successful players can further motivate players to continue competing.

Creativity: In games that allow for customization and creativity, motivation is important to encourage players to explore and experiment with the available tools and options. This can lead to unique and interesting player-generated content.

Overall, motivation is required in game engineering to create engaging, enjoyable, and rewarding experiences for players. By understanding what motivates players and incorporating those elements into game design, developers can create games that are both successful and satisfying for players.

Q6) Explain Intrinsic verses Extrinsic Motivation for player motivation.

Ans:

Intrinsic motivation and extrinsic motivation are two types of motivation that can influence a player's behavior in game engineering.

Intrinsic motivation refers to the internal drive that motivates an individual to engage in an activity for its inherent enjoyment, satisfaction, or personal growth. In the context of game engineering, intrinsic motivation can come from the gameplay itself, such as the challenge, exploration, and discovery of the game's mechanics, story, or world. Players who are intrinsically motivated tend to engage in the game for the pleasure and satisfaction it brings, without the need for external rewards or incentives.

Extrinsic motivation, on the other hand, refers to external factors that motivate an individual to engage in an activity, such as rewards, recognition, or social approval. In game engineering, extrinsic motivation can come in the form of in-game rewards, such as points, levels, or achievements, or external rewards, such as prizes, recognition, or status. Players who are extrinsically motivated tend to engage in the game for the external rewards and incentives, rather than for the inherent enjoyment or satisfaction of the gameplay.

It's worth noting that both intrinsic and extrinsic motivation can play a role in player motivation, and that the optimal balance between the two may vary depending on the game's design, genre, and target audience. A game that relies too heavily on extrinsic motivation may risk undermining the player's intrinsic motivation, while a game that lacks extrinsic rewards may fail to provide players with a sense of progress or achievement. Therefore, game designers must carefully consider the balance between intrinsic and extrinsic motivation when designing their games to ensure that they provide players with a compelling and rewarding experience.

Q7) Explain the stages of mastery with respect to how people engage with system.

Ans:

In game engineering, the stages of mastery refer to the progression of skills and knowledge that players go through as they engage with a game system. The stages of mastery can be broken down into several phases, which include:

Novice: In this stage, players are new to the game and are still learning the basics of the game's mechanics, controls, and objectives. They may make frequent mistakes and struggle to understand how to progress through the game.

Competent: As players become more familiar with the game, they begin to develop a basic level of competence. They have a better understanding of the game's mechanics and objectives, and can perform basic actions without as much conscious effort.

Proficient: In this stage, players have a deeper understanding of the game and its mechanics, and can perform more complex actions and strategies with relative ease. They may begin to experiment with different play styles and develop their own unique strategies.

Expert: At the expert stage, players have a high level of skill and mastery over the game. They can anticipate and react to different scenarios and adapt to new challenges quickly. They may also be able to analyze and optimize their play style to achieve the best possible outcome.

Master: The master stage represents the pinnacle of mastery in the game. Players at this stage have a complete understanding of the game's mechanics, objectives, and strategies, and can consistently perform at the highest level of skill. They may also be able to teach others and develop new strategies and techniques for the game.

These stages of mastery are not necessarily linear, and players may move back and forth between different stages as they continue to engage with the game. Game designers can leverage these stages of mastery to create engaging and rewarding experiences for players, by providing clear and gradual progression, as well as opportunities for players to develop and showcase their skills.

Q8) What are the critiques of gamification ?

Ans:

Gamification, which is the use of game elements and mechanics in non-game contexts, has gained significant popularity in recent years as a way to engage and motivate individuals. However, there are also several critiques of gamification, including:

Superficiality: Some critics argue that gamification can be superficial, as it often focuses on adding game-like elements, such as badges or points, without actually addressing the underlying issues or motivations. In some cases, gamification may also trivialize serious issues, such as health or social problems.

Lack of sustained engagement: Gamification may provide initial engagement, but it may not lead to sustained engagement or behavior change. Players may lose interest once the novelty of the game-like elements wears off, or if they do not perceive the rewards or incentives as valuable.

Extrinsic motivation: Gamification often relies on extrinsic motivation, such as rewards or points, which may not be as effective as intrinsic motivation in fostering long-term behavior change. Extrinsic motivation can also create a focus on the rewards rather than the underlying activity or behavior, which may ultimately undermine intrinsic motivation.

Manipulation: Critics argue that gamification can be manipulative, as it can use game-like elements to persuade or influence individuals to engage in activities or behaviors that they may not have otherwise chosen to do.

Ethical concerns: There are also ethical concerns with gamification, such as privacy concerns and the potential for exploitation, particularly if sensitive or personal information is involved.

In summary, while gamification can be an effective way to engage and motivate individuals, there are also critiques regarding its superficiality, lack of sustained engagement, reliance on extrinsic motivation, potential for manipulation, and ethical concerns. Game designers and practitioners should be aware of these critiques and consider them when designing and implementing gamification strategies.

Q9) Write short note on Social games and list one example

Ans:

Social games in game engineering refer to video games that are designed to be played with other people, often through social media platforms or online gaming networks. These games typically involve social interactions between players, and may include features such as chat rooms, leaderboards, and shared goals or challenges.

The design of social games often focuses on fostering a sense of community and encouraging players to engage with each other. This can include features such as cooperative gameplay, player-versus-player competition, and in-game communication tools to help players collaborate and strategize together.

Social games have become increasingly popular in recent years, driven in part by the rise of social media and online gaming networks. Many social games are free-to-play and are supported by microtransactions or advertising revenue. Some of the most popular social games include titles such as FarmVille, Candy Crush, and Among Us.

Q10) Explain the concept of Apparatus and Image in the context of video games.

Ans:

In the context of video games, the concepts of apparatus and image are two key components of the game design process. These concepts are critical to understanding how video games are created and how they work.

The apparatus refers to the physical and technical elements of the game, including the hardware and software that are used to create and run the game. This includes everything from the game engine and programming code to the graphics and sound effects. The apparatus is essentially the "behind-the-scenes" technology that powers the game and makes it possible for players to interact with the virtual world.

The image, on the other hand, refers to the visual and aesthetic elements of the game. This includes everything from the character models and environment design to the textures and lighting effects. The image is what players see and experience as they play the game, and it plays a critical role in immersing players in the game world and creating a sense of atmosphere and realism.

The apparatus and image are both critical components of video game design, and they work together to create the overall game experience. The apparatus provides the technical foundation for the game, while the image brings the game world to life and engages players in the gameplay.

In order to create a successful video game, game developers must carefully consider both the apparatus and the image during the design process. This involves making decisions about the technology and programming used to create the game, as well as the visual design and aesthetic choices that will shape the game's look and feel.

Overall, the concepts of apparatus and image are essential to the creation of video games, and they play a critical role in determining the success of a game. By understanding these concepts and how they work together, game developers can create immersive and engaging games that captivate players and provide hours of entertainment.

Q11) Compare playful and playable on the basis of Jacques Henriot theory

Ans:

According to Jacques Henriot's theory of play, there are two types of play: "playful" and "playable". While both terms refer to activities that involve play, there are important differences between them.

Playful refers to the act of engaging in play for its own sake, without any particular goal or objective in mind. Playful activities are often spontaneous and improvised, and may involve experimenting with different approaches or strategies in order to discover new ways of playing. Playful activities are often associated with creativity, imagination, and a sense of freedom and spontaneity.

On the other hand, playable refers to the act of engaging in play with a specific objective or goal in mind. Playable activities are often structured and goal-oriented, and may involve rules, objectives, and challenges that must be overcome in order to succeed. Playable activities are often associated with competition, strategy, and skill-building.

In comparing playful and playable activities, it is important to note that both types of play can be valuable and enjoyable in their own ways. Playful activities can foster creativity and imagination, while playable activities can help build skills and provide a sense of accomplishment.

However, the main difference between playful and playable activities lies in their underlying goals and objectives. Playful activities are pursued for their own sake, while playable activities are pursued with a specific objective or outcome in mind.

Overall, Jacques Henriot's theory of play highlights the importance of understanding the different types of play and the different goals and objectives that underlie them. By recognizing the differences between playful and playable activities, we can better appreciate the value and benefits of both types of play.

Q12) Why people play? Explain the player's state between anxiety and boredom.

Ans:

People play games for a variety of reasons, including entertainment, social interaction, challenge, and escapism. However, in the context of game engineering, understanding the motivation behind why people play games is essential in creating engaging and enjoyable games with a high replay value.

One crucial aspect of player motivation is the state between anxiety and boredom. Players seek a balance between these two states, where they are neither bored nor overwhelmed with anxiety.

When a game is too easy, players may quickly become bored and lose interest in playing. On the other hand, if a game is too difficult, players may become anxious and frustrated, leading to disinterest in the game. Hence, it is essential to carefully balance the level of challenge in a game to keep players engaged without overwhelming them.

This balance is often achieved through a progressive difficulty curve, where the game starts off relatively easy and gradually becomes more challenging as the player progresses. Game designers must take into account the target audience for their game and create a challenge level that will appeal to that audience.

However, different players have different preferences when it comes to the level of challenge in games. Some players may prefer games that are more challenging, while others may prefer games that are more relaxing and less intense. Therefore, game designers must consider the target audience's preferences and create a challenge level that will appeal to them.

Overall, the state between anxiety and boredom plays a significant role in player motivation and engagement in game engineering. By understanding the balance between these two states and creating games that offer a suitable level of challenge, game designers can create games that are both challenging and enjoyable, leading to higher player engagement and retention.

Q13) Which types of fallacies have been seen by serious games designer in gamification

Ans:

Serious games designers have identified several types of fallacies in gamification, including:

Over-justification: This fallacy occurs when rewards or incentives are offered for an activity that is already intrinsically motivating, such as playing a game. Over-reliance on extrinsic rewards can decrease intrinsic motivation, leading to a decrease in engagement and enjoyment.

False cause: This fallacy occurs when a correlation between two events is assumed to be causation. In gamification, this might occur when a reward is offered for completing a certain action, and it is assumed that the reward caused the behavior, when in reality, the behavior was already occurring.

Limited focus: This fallacy occurs when the designer focuses too narrowly on a specific aspect of the game, such as a leaderboard, without considering the broader context of the game and the player's experience. This can result in a shallow and unsatisfying gameplay experience.

Ignoring individual differences: This fallacy occurs when the designer assumes that all players will respond the same way to a particular game mechanic or incentive. In reality, players have different preferences, motivations, and levels of engagement, and a one-size-fits-all approach is unlikely to be effective.

Illusion of control: This fallacy occurs when players believe they have more control over the game's outcome than they actually do. This can lead to frustration and disengagement when the player realizes that their actions have little impact on the game's outcome.

By being aware of these fallacies, serious games designers can avoid common pitfalls and create games that are engaging, enjoyable, and effective.