COMP08035 Computer Games Design

Week 06 Lecture - Cognitive Flow And Creating the User Experience





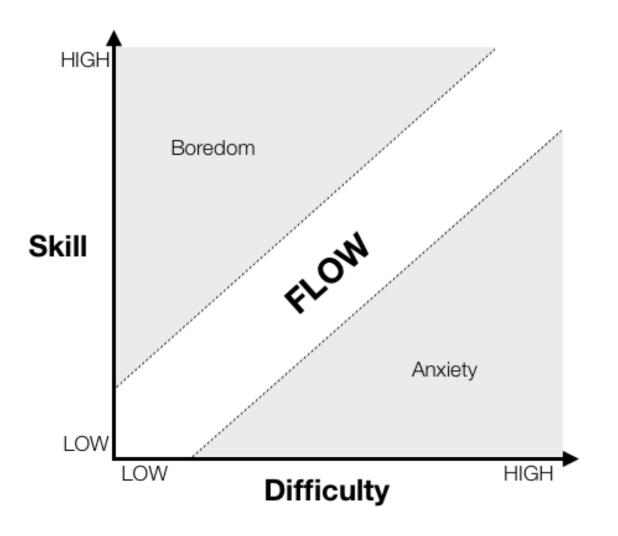
Mihaly Csikszentmihalyi

(mee-hal-yee cheek-sent-mee-hal-yee)

Csikszentmihalyi, M. (2009) <u>Flow: The</u> <u>psychology of optimal experience</u>. Nachdr. New York: Harper [and] Row.

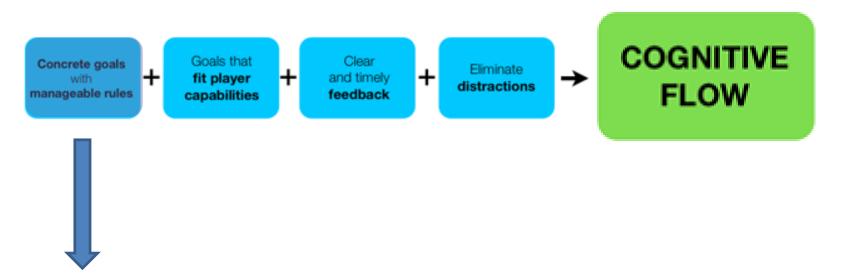


- You sit down, ready to get in a few minutes of gaming.
- Hours pass and you suddenly become aware that you're making ridiculous faces and moving like a contortionist while trying to reach that new high score.

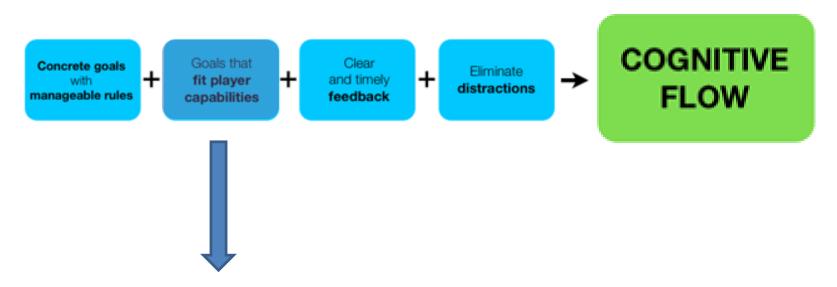




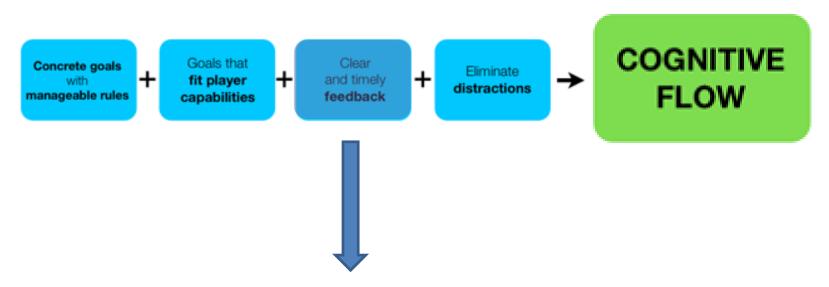
- Extreme focus on a task.
- A sense of active control.
- Merging of action and awareness.
- Loss of self-awareness.
- Distortion of the experience of time.
- The experience of the task being the only necessary justification for continuing it.



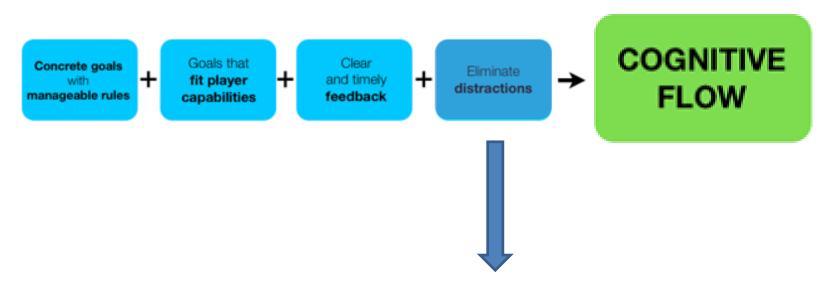
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- 2. Games should only demand actions that fit within a player's capabilities.
- 3. Games should give clear and timely feedback on player performance.
- 4. Games should remove any extraneous information that inhibits concentration.

The User Experience

- The total package experienced by the player when he/she plays the game
- Combination of three distinct areas of the design:
 - Visual element
 - Audio element
 - Interactive element

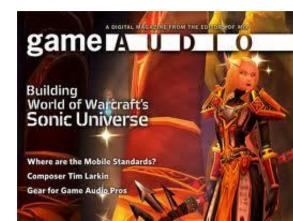


Visual Element

- NieR Replicant.
- This is the "look" part of "look and feel"
- Need to consider the overall impact of the artwork
- How should it combine and mesh with other elements of the game design?
- Does the player get an overall consistent picture of the game world?

Audio Element

- Just as important as other elements
- Creates the atmosphere of the game world
- Provides feedback to the player



Interactive Element

- How the player interacts with the game
- The "feel" part of the game's "look and feel"
- Concerned with the navigational pathways through the game and the physical controller setup



User Interface

- Must be designed to immerse the player in the world of the game
- At least as important as gameplay
- Challenging for game designers
- The user interface can make or break your

game

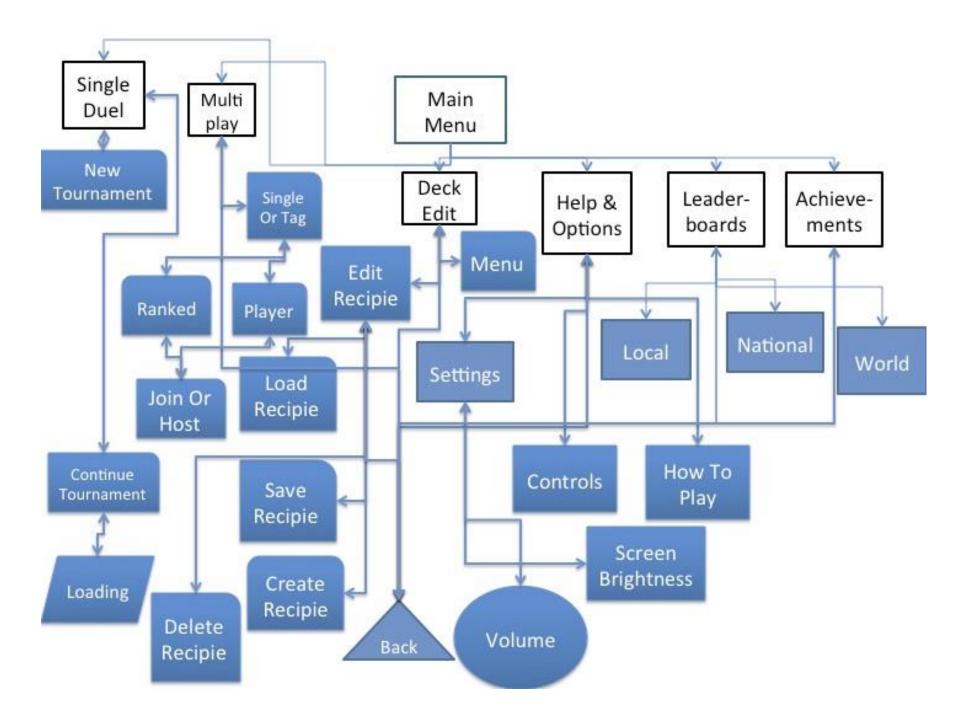


User Interface - Navigation

Navigation:

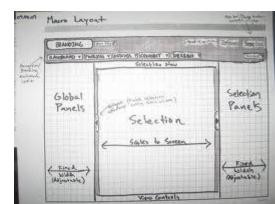
- designing good navigation is complex and difficult
- Rough out design on paper, then create a simple prototype using e.g. Adobe Flash
- Ask others to test the prototype interface before finalising the design





User Interface – Screen Layout

- Need to balance use of screen area with usability and accessibility
- Decide on screen layouts at an early stage and stick with them
- Players hate inconsistency in screen layouts
- KISS principle "Keep it simple, stupid!"



User Interface – Meeting Expectations

- User interface is not the place to be original!
- Stick to what the player knows and is used to
- Players simply won't dedicate any time or effort to figure out a new unfamiliar interface
- If you are determined to include a new style of interface, let the player choose a "classic"

REALITY

But

interface instead

User Interface – Hardware Considerations

- Important element of game design
- Need to be aware of the capabilities and limitations of your target platform
- Controllers or other interface devices are particularly important



User Interface

- Functional aspects far more important than aesthetic aspects
- As games have become more complex, so have user interfaces
- Main function of a user interface is to allow the player to play the game
- Needs to be very carefully planned and documented during design



- 1. Roughly sketch out the major elements of the shell interface
- 2. Do the same for the in-game interface include all gameplay modes
- 3. Create a flowchart showing how the gameplay modes change, and what events cause the change



- 4. For each gameplay mode:
- Create its screen layout
- Define what will happen when each controller/keyboard button is pressed and when an object in the game world is selected

User Experience Questions

- 5. Does the function of buttons on the controller change within a mode? If so, how does the player know?
- 6. How does avatar behaviour map to input devices?
- 7. Are you complying with player expectations within the genre?

User Experience Questions

- 8. Does the game include menus? What is the menu structure?
- 9. Is there text on-screen? Does it need to be localised?
- 10. What icons will you use? Are they easily identifiable? Are they culturally neutral?



User Experience Questions

Some questions about your game:

11. What music and sound effects will you use? How will you ensure that they are consistent with visual and interactive elements?

Practical

- Work on researching and writing your Game Design Document
- Record progress in your blogs.

