Game Mechanics

* with material from Cindy Poremba, OCAD U

Defining Mechanics in MDA
(MECHANICS, AESTHETICS, DYNAMICS DESIGN MODEL)

Hunike, Leblanc, & Zubek, 2007

Driving Mechanic

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- Mechanics:
  - Driving, Collecting

Studio Ghibli films: Hayao Miyazaki

“Before any of the levels had been created Mr. Miyamoto had Mario running around and picking up objects in a small ‘garden’ which he uses in all his games to test gameplay elements. “A lot of the animation was actually in there before any of the game” explains Goddard. “Mario’s movement is based on good physics, but you have bits on top that you plug in so you can do things you shouldn’t be able to do. They spent a lot of time working on the swimming, it’s harder than running to get the feeling right, they didn’t want you to avoid the water, they wanted to make it an advantage and fun to dive in.”

Giles Goddard on Super Mario 64
Feel of the gameplay (sensation) & Feelings evoked by gameplay

“We wanted to make an online game [that brought] an emotion that has never been done before in online games. If you look around at online games in the console market, it's pretty obvious that no other games give you this feeling of connection with each other, of understanding. The goal was to create a game where people felt they are connected with each other, to show the positive side of humanity in them. A lot of games today have a list of quests, places to go, items to collect and rewards to receive... We just ignore each other. So in order to make players care about each other, we have to remove their power, and remove their tasks.”

Jenova Chen, re: Journey

Journey

Mechanics Exercise #1

- Can you identify game mechanics at work?
Examining Mechanics

- Every activity has an action that is fun by itself.
  - Step #1: Try to identify the core mechanic from the elements that provide structure or enhancements to the mechanic.
  - Example: Angry Birds
    - Core fun elements:
      - Flinging birds
      - Knocking down structures
    - Enhancements:
      - Sound and visual effects
      - Cartoony design

Mechanics – Donkey Kong

Can’t have a game without these parts

Mechanics – Super Meat Boy

Helps the game, but doesn’t make the game.

Mechanics – Katamari Damancy
What is a Game Mechanic?

- Something fundamental that one plays with.
- Something that provides the player with a satisfying sensation.
- Something that lends itself to more extensive interactions.

The game has mechanics too

- The game itself has things that it can do to the player, that also add to the interaction.
- Examples:
  - Speeding up
  - Adding more obstacles
  - Bullet hell
  - etc.
Making a mechanic

For these exercises:
- Theme or Subject
- Mechanic
- Feeling, Meaning or Value

Exercise #2: Identify mechanics
- Little Big Planet
- Katamari Damancy
- Journey
- Prince of Persia
- Tetris
- Legend of Zelda
- Pokemon
- Grand Theft Auto
- Final Fantasy
- Tomb Raider
- Street Fighter
- Destiny
- Pac-Man
- Wii Fit
- Angry Birds
- Candy Crush
- Kingdom Hearts
- Silent Hill
- Shadow of Colossus
- Temple Run
- Madden NFL
- Space Invaders
- Rock Band
- Dance Dance Revolution
- Flappy Bird
- Donkey Kong
- Fruit Ninja
- Brick Breaker
- Mario Kart
- Halo
- Smash Brothers
- Cooking Mama
- Minecraft
- Brick Breaker
- Resident Evil
- Portal
- Last of Us
- Wii Tennis
- Uncharted

Exercise: Life is Strange

“Changing the past can sometimes lead to a devastating future”