Lecture 2:

Nature of Games
Brainstorming Exercise
Definitions of Games

- Adams: *Fundamentals of Game Design*
  A game is a form of *interactive entertainment* where *players* must overcome *challenges*, by taking actions that are governed by *rules*, in order to meet a *victory condition*.

- Salen & Zimmerman: *Rules of Play*
  A game is a *system* in which *players* engage in *artificial conflict*, defined by *rules*, that results in a *quantifiable outcome*. 
Definitions of Games

• Adams: *Fundamentals of Game Design*
  A game is a form of interactive entertainment where players must overcome challenges by taking actions that are governed by rules in order to meet a victory condition.

• Salen & Zimmerman: *Rules of Play*
  A game is a system in which players engage in artificial conflict, defined by rules, that results in a quantifiable outcome.

Nature of Games

• Players
• Challenges
• Rules
• Goals
Design Decisions

• Players
  • How many players are there at a time?
  • Who or what is the player in the world?
  • Specifies a notion of identity

• Goals
  • What is the player trying to achieve?
  • Defined by the game or by the player?
  • Specifies the player focus
Design Decisions

• Rules
  • How does the player effect the world?
  • How does the player learn the rules?
  • Specifies the *boundaries* of the game

• Challenges
  • What obstacles must the player overcome?
  • Is there more than one way to overcome them?
  • Specifies the fundamental *gameplay*
(Other) Design Decisions

• **Game Modes**
  • How are the challenges put together?
  • What is the interaction *context*?

• **Setting**
  • What is the nature of the *game world*?
  • What is the *perspective* (e.g. side-scroller, 3D, etc.)?

• **Story**
  • What *narrative* will the player experience?
  • How is it connected to gameplay?
Play Length

• How short a game can I play and have fun?
  • Least meaningful unit of play
  • **Console**: 30 minutes+ is acceptable
  • **Mobile**: No more than a minute

• **Casual** often means short play units
  • But can have sophisticated gameplay!
  • **Example**: *Plants vs. Zombies*

• But **casual** vs **core** is a bad distinction
### Dueling Design Philosophies

<table>
<thead>
<tr>
<th><strong>Narrative</strong></th>
<th><strong>Ludic</strong></th>
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<tbody>
<tr>
<td><em><em>Games are a</em> story medium</em>*</td>
<td><em><em>Games are about</em> mechanics</em>*</td>
</tr>
<tr>
<td><em>Focuses on storytelling</em></td>
<td><em>Focus on gameplay, rules</em></td>
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<tr>
<td><em>Traditional narrative structure</em></td>
<td><em>Storytelling is minimal</em></td>
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#### Advantages:

<table>
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<tr>
<th><strong>Narrative</strong></th>
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<tr>
<td><em>Emotionally compelling</em></td>
<td><em>Focus on player</em> agency</td>
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<tr>
<td><em>Strong artistic vision</em></td>
<td><em>Tight, well-defined gameplay</em></td>
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#### Disadvantages:

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<td><em>Author voice over player voice</em></td>
<td><em>Lack of player motivation</em></td>
</tr>
<tr>
<td><em>Poorly defined mechanics</em></td>
<td><em>Hard to distinguish yourself</em></td>
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The Dangers of Pure Story

Deuce
You're pretty direct. Uh... so how are things going with you?
The Dangers of Pure Story

What is the player doing?
But Ludic is Not Everything

Nature of Games
But Ludic is Not Everything
Game Design Must Be a Balance

Motivate the Player

- Needs a story *framework*
  - Setting to work within
  - Strong sense of identity
  - Challenges with context

Empower the Player

- Drama from player *actions*
  - Define what the player can do
  - Challenges reward or punish
  - Freedom in achieving goals

Games are **dramatic**, but they have their own **conventions**.
But This Course Will Be Ludic-Centric

- Will focus on **design tools**
  - Techniques that we can train
  - Using them requires practice
  - Implementing them has technical challenges

- But design is much more
  - You use tools to create art
  - Can only learn by doing
  - With critiques from us
  - Like a studio course

- Keeping balance is up to you
The Adams Approach

**Games as wish-fulfillment**
- I want to ____________

**Questions to answer:**
- What dream are you satisfying?
- What *goals* does this dream create?
- What *actions* achieve those goals?
- What *setting* does this dream create?
- What is the appropriate *interface*?

**Use this to define *gameplay***
The Adams Approach

- Games as *wish-fulfillment*
  - I want to __________

- Questions to answer:
  - What dream are you satisfying?
  - What *goals* does this dream create?
  - What *actions* achieve those goals?
  - What *setting* does this dream create?
  - What is the appropriate *interface*?

- Use this to define *gameplay*
Exploring Gameplay

• To design games, you must play games!
  • Experience many different types of gameplay
  • Do not play the same type of game all the time

• Flash portals are still a good resource
  • Games are small but focus entirely on gameplay
  • Kongregate & Armor Games are some of the best
  • Puzzle game? Look at Kongregate first

• This is how we will use Piazza this semester
Have Realistic Goals

- **Goal**: Size of an indie mobile game
  - Can be played instantly with minimal tutorial
  - A few core mechanics with some variation

- **Quality over Quantity**
  - Ten amazing levels > 30 poor levels
  - Balance number of challenges with level size
  - Avoid feature bloat (e.g. power ups)

- We will give you constant feedback on this
Commercial Examples

- **Braid**: Puzzle platformer with time-travel mechanics
- **Limbo**: Dark platformer with realistic physics
- **Hotline Miami**: Top-down stealth and action
- **Clash of Heroes**: Match 3 + Turn-based strategy
- **Guild of Dungeoneering**: RPG + CCG
  - Use cards to build the dungeon that you explore
- **Monument Valley**: Puzzle-based exploration
- Think *indie games*, not boxed retail
Examples from Previous Semesters

- **Sisyphus** *(Spring 2021):*
  - Platformers where you are chained to a rock

- **Parole-in-One** *(Spring 2020):*
  - Stealth-based mini-golf game (don’t get caught putting)

- **Mount Sputnick** *(Spring 2017):*
  - Competitive rock-climbing game

- **Dash** *(Spring 2014):*
  - Dash-based game where you must continually move

- **Exodus Protocol** *(Spring 2013):*
  - X-Com style strategy game with only three units
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Some are available at http://gdiac.cs.cornell.edu