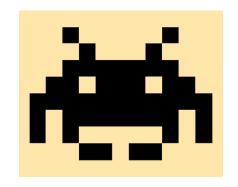
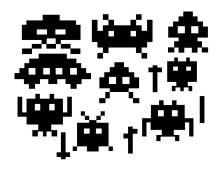


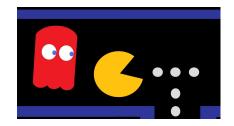


CSCI 1106 Lecture 11



Game Polish





Announcements

- Today's Topics
 - Why polish?
 - What is polish?
 - Types of polish
 - Prioritizing polish

Sell Games and Influence People

- What makes a game good?
 - Idea behind the game
 - Unifying theme
 - Story line
 - Game mechanics
- What makes a game great?
 - The small details
 - The look of the game
 - The game effects
 - The interesting quirks
 - The lack of annoying quirks

Many are Called but Few are Chosen

- A polished game is
 - More compelling and immersing
 - More likely to be played longer
 - More appealing to new players
- A polished game will
 - Get better reviews
 - Get more praise on social media and word of mouth
 - More likely become popular
 - Likely sell more copies
- It's in our interest to make sure that games are as polished as possible!

What is Game Polish?

- Defn: A process to reduce the number of minor issues associated with the game
- This involves
 - Fixing minor bugs and anything that detracts from the consistency of the game
 - Touching-up graphics
 - Refining game mechanics
 - Adding minor features and special effects
- Constitutes the last 10% to 20% of development
 - Can take up to 50% of total time

Scheduling Game Polish

- Idea: Schedule game polishing as part of your overall development plan
- Don't assume you will have extra time to do this after you finish the main development
- Game polish is not the same as debugging or fixing major problems
 - You should budget time for this as well
- Should be done throughout the game development cycle
 - Typically kicks in once the game is stable and working
 - Done in concert with playtesting

Types of Game Polish

- Resolution of issues
 - Stability
 - Consistency
 - Playability
 - Understandability
- Refinement of the game mechanics
 - Realism, environment, and actions
 - Graphics
 - Audio
- Additional features
 - Special effects
 - Side stories and bonus rounds
 - Easter eggs
 - Special objects

Resolution of Issues

- Stability issues
 - Bugs
 - Memory usage
 - Hardware optimization
- Consistency issues
 - Story line (plot inconsistencies)
 - Game mechanics
 - Unifying theme
- Playability issues
 - Game mechanics
 - Game control
 - User interface layout



Resolution of Issues II

- Understandability Issues
 - Game manual
 - Presentation of information during the game
 - Demonstration of how to play the game
 - Recommended controller use

How are these issues discovered?

Playtesting!

Refinement of Game Mechanics

Realism

- Physics simulation
 - Projectile behaviour
 - Object motion
- Behaviour
 - E.g., the more a character is carrying the slower they are
- Character rendering
- Character motion
 - Natural motion: walking, running, jumping, etc
 - Ancillary objects: hair, clothing, etc

Graphics

- Detail
- Photorealism
- Graphic design

Audio

- Fidelity
- Sound effect/action pairing
- Interaction (voice)



Additional Features

- Special effects
 - Explosions
 - Transitions
 - Intermissions
- Side stories and bonus rounds
 - Additional miniquests for the players
 - Additional levels
 - Backstory
 - Transitions to the sequel

- Easter eggs
 - Secret features
 - Activated by clicking on specific objects on the screen
 - Allows developers to add more of their own creativity into the game
- Special objects
 - Give the character additional powers
 - Do not affect the general play of the game

Priorities

- 1. Resolve issues
 - a. Stability issues
 - b. Playability and Understandability
 - c. Consistency
- 2. Refine game mechanics
 - a. Physics and controls
 - b. Character motion
 - c. Character rendering, graphics, and audio
- 3. Add features