



First Playable

Project 4

Due date: Monday, September 24th

Introduction

- Fourth in a series of related projects
 - Will build towards working game

- Focuses on
 - Development of game objects
 - Game logic

- Using GameMaker

Motivation

- At core of game are the rules
 - Such as rules on gameplay (ie- payoff matrices)

- More than that
 - Hit points
 - AI for computer-controlled objects
 - Obstacles
 - Interface objects ...

- Begin prototyping the game
 - Gain experience implementing and testing game logic

Overview

- ❑ Work in same group
- ❑ Use the treatment from Project 2
- ❑ Use the art from Project 3
 - Intent is *not* to more art or design (but can add – art is not “frozen”).
- ❑ All effort on implementing a variety of objects
 - In GameMaker!
- ❑ Evaluated based on
 - object activity
 - object interactivity
 - user interactivity
 - AI/reactivity
- ❑ Options
- ❑ Document with flexible grading

Details (1 of 4)

- At least 10 GameMaker Objects
 - Next project on *Level Design* so consider choices

- Each should have somewhat unique behavior
 - More than a copy or sub-class of another

- As a whole, your objects will meet the following criteria:

(Specific criteria next slide)

Details (2 of 4)

- *Object Activity* - Change state, reflected to the user in some fashion.
 - Ex: change in location (motion)
 - Ex: change in appearance (damaged object)
- *Object Interactivity* - interaction with other objects (i.e. – at least one changes state)
 - Ex: collision between two objects causes rebound
 - Ex: collision between two and “pickup” other item
- *User Interactivity* - respond to user input
 - Ex: pressing arrow keys moves avatar
- *AI/Reactivity* – “intelligent” behavior in reacting to objects around it. Adapt as situation changes.
 - Ex: Object pursues hero once awake

Details (3 of 4)

- For testing, create 1+ GameMaker Rooms
 - NOT meant to be playable levels (that's next project)
 - Do not spend much time on the rooms themselves
 - Rather, use to test your objects (TAs will use to evaluate),
 - Use as many rooms and as many copies as needed
- Write a description Document
 - Describes the objects, behaviors, and which objects fill which criteria.
 - List the members of group
 - Grading criteria (next)

Details (4 of 4)

- Options screen/buttons
 - At least two options to influence game world
 - Ex: number of lives, health, game speed, difficulty...
- Tell how options work (how affect world and objects) in Document
- Document also tells where you put your “flex points”

Grading Guidelines

<u>Criteria</u>	<u>Weight</u>
Object Activity	15%
Object Interactivity	15%
User Interactivity	15%
AI/Reactivity	15%
Flexible	25%
■ Distribute across 2-3 criteria, above	
Options	10%
Document + Rooms	5%

Submission

- Turnin (see Web page for instructions)
- GameMaker .gmk file
 - Will have art, audio content embedded
- Description Document

Group Exercise

- Break into groups:
 - Blinky, Pinky, Inky, Clyde, Pac
- Consider objects in Pac-Man
- List and describe (5-7 minutes)
 - Object activity
 - Object interactivity
 - User interactivity
 - AI/Reactivity
- Are some objects related to others? If so, how?

