# Pufferfish Games: Grid System

Sean Miles and Yuto Akutsu



### Missing Functionality: Grid System

- Grid Based Movement/Placement of Objects
- Developers
  - Can create a grid of a certain size
  - Can lock objects to a specified grid
- Players
  - Move objects on the grid
  - Cannot move grid-locked objects in between or out of grid cells



## Progress on Grid System API

#### **Grid Class**

- Changed to using cell width/height rather than basing size on Camera
- Added an Xform to the Grid to allow for manipulation and position changes
- Added setter for Grid line color and toggling drawing of the Grid

### GridObject Class

- Changed to accept a GameObject now
- Thinking of having a separate GridObject Bounding Box for collisions

#### **Current Progress**

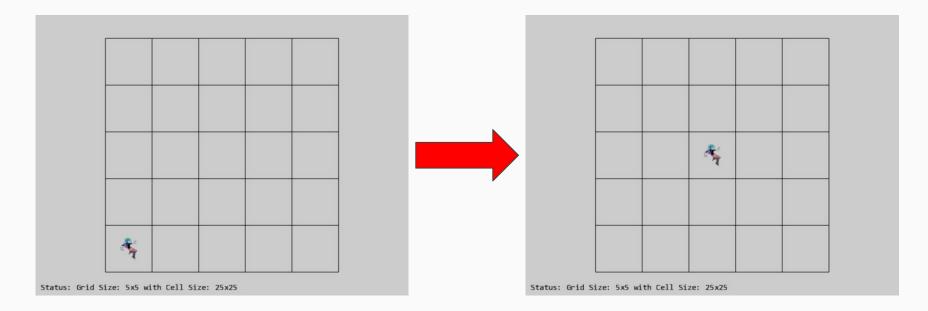
- Grid almost fully implemented, missing movement updates in update ()
- Base of GridObject implemented, still need to work on movement, gridlock and various methods

# Examples

this.mGrid = new Grid(5, 5, 25, 25);
this.mHero = new Hero(this.kMinionSprite, 35, 50);
this.mHero = new GridObject(this.mHero, this.mGrid, 0, 0, 1, 1, true);

*		

Status: Grid Size: 5x5 with Cell Size: 25x25



### Questions?