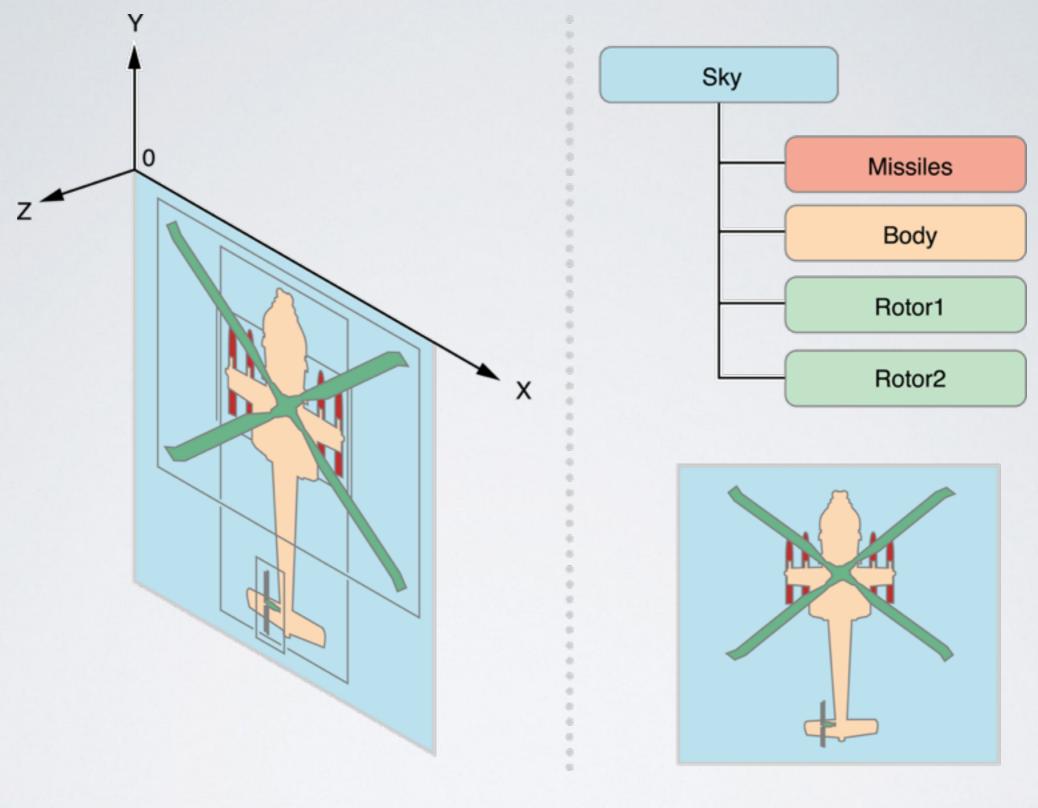
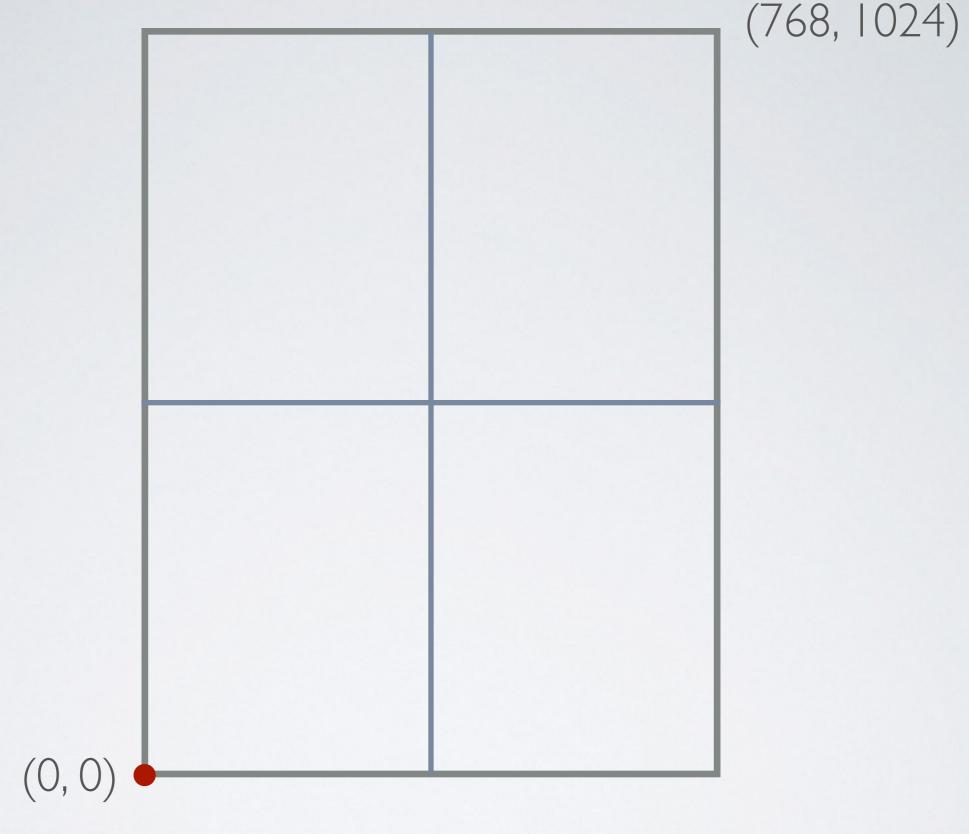
Intro To Game Development With iOS 7 SpriteKit

Ryan Thompson

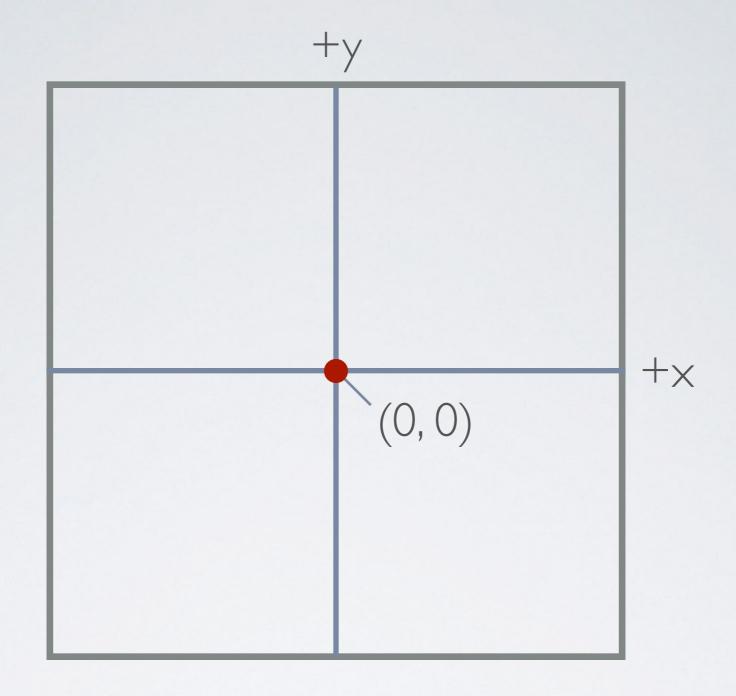
FieldSync Mobile Solutions



SKNode System



SKScene Coordinate System



SKNode Coordinate System

```
// Initialize a sprite node
SKSpriteNode *myNode = [[SKSpriteNode alloc] initWithImageNamed:@"myImage"]];

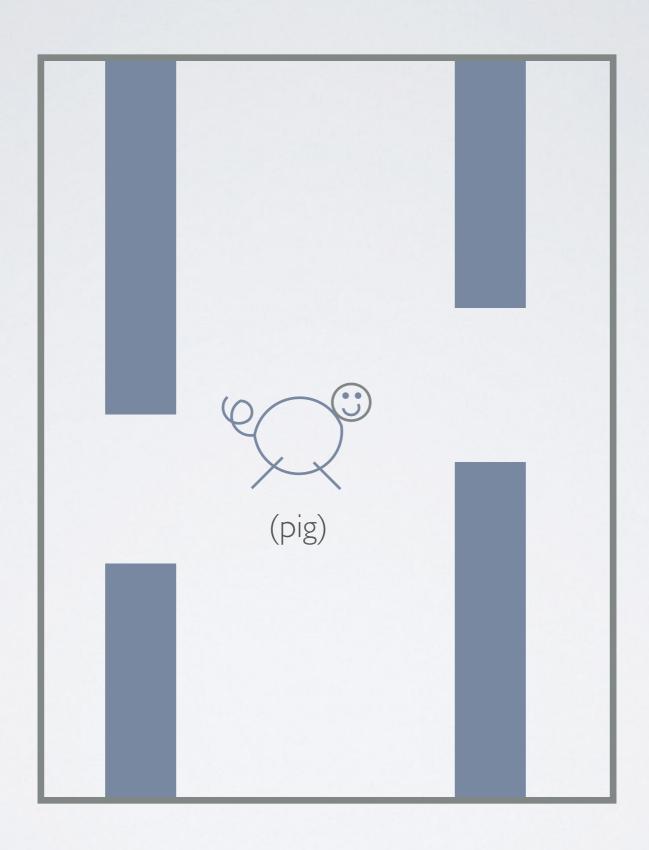
// Set the node's position
myNode.position = CGPointMake(x, y);

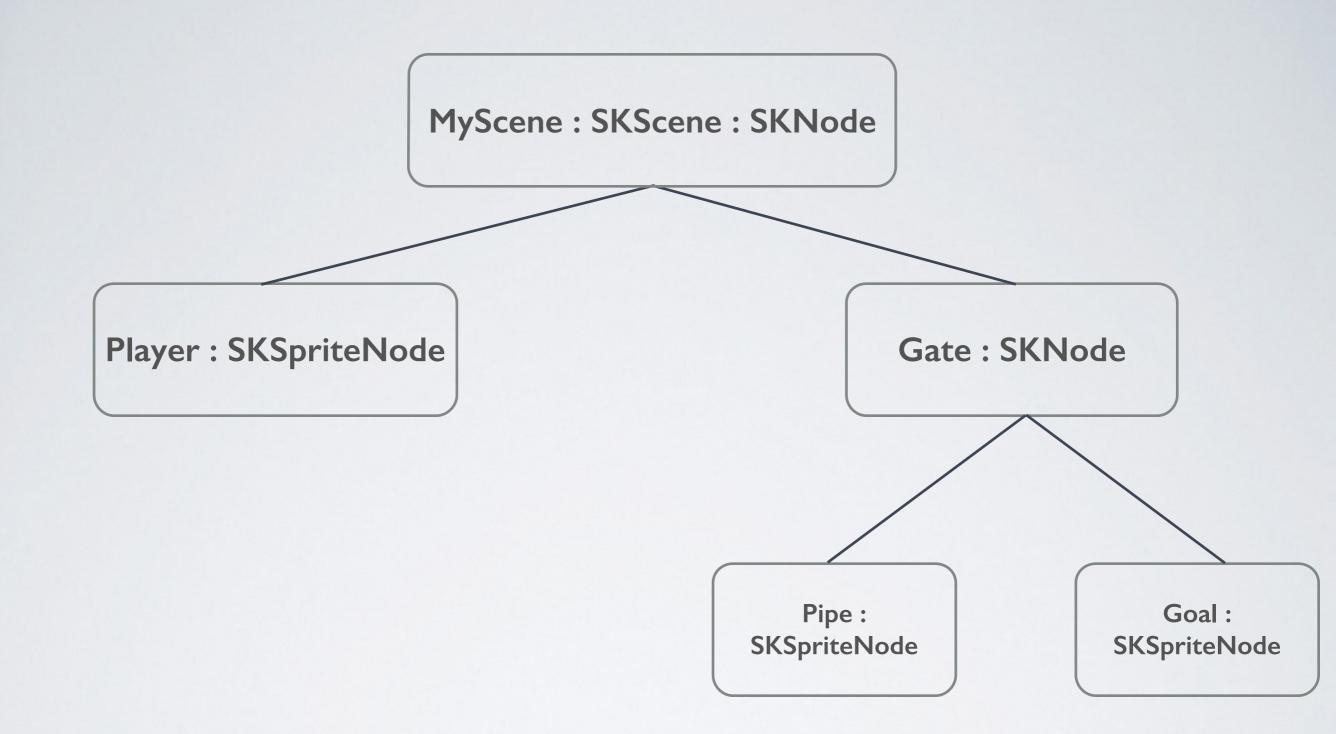
// This action moves the sprite to some position over time
SKAction *move = [SKAction moveTo:position duration:duration];

// This action removes the node from its parent
SKAction *removeFromParent = [SKAction removeFromParent];

// Run both actions serially by creating a sequence
[myNode runAction:[SKAction sequence:@[move, removeFromParent]]];
```

Flappy Pig



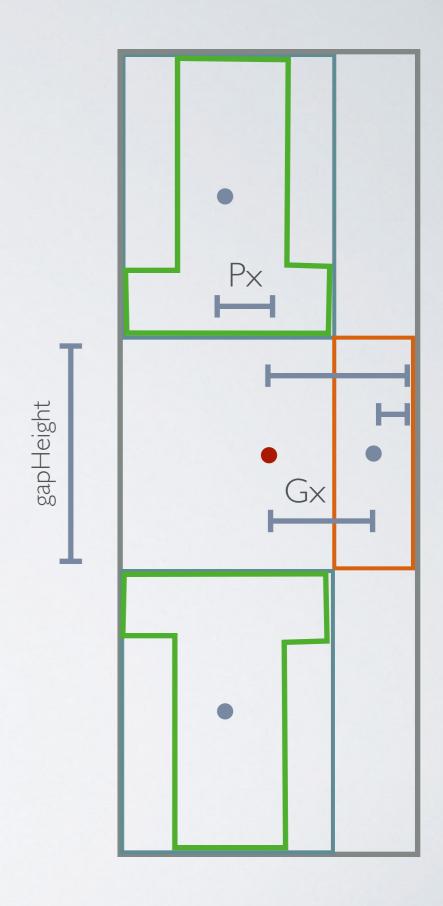


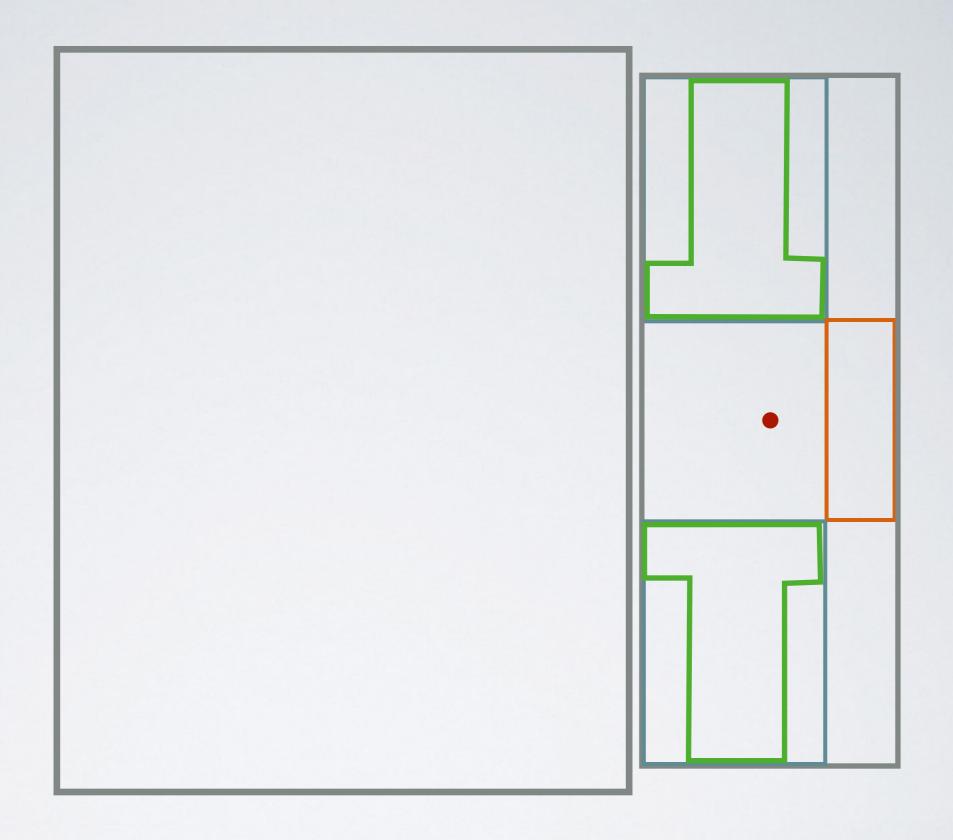
Flappy Pig Node Tree

self.width = pipe.width + goal.width self.height = 2 * pipe.height + goal.height

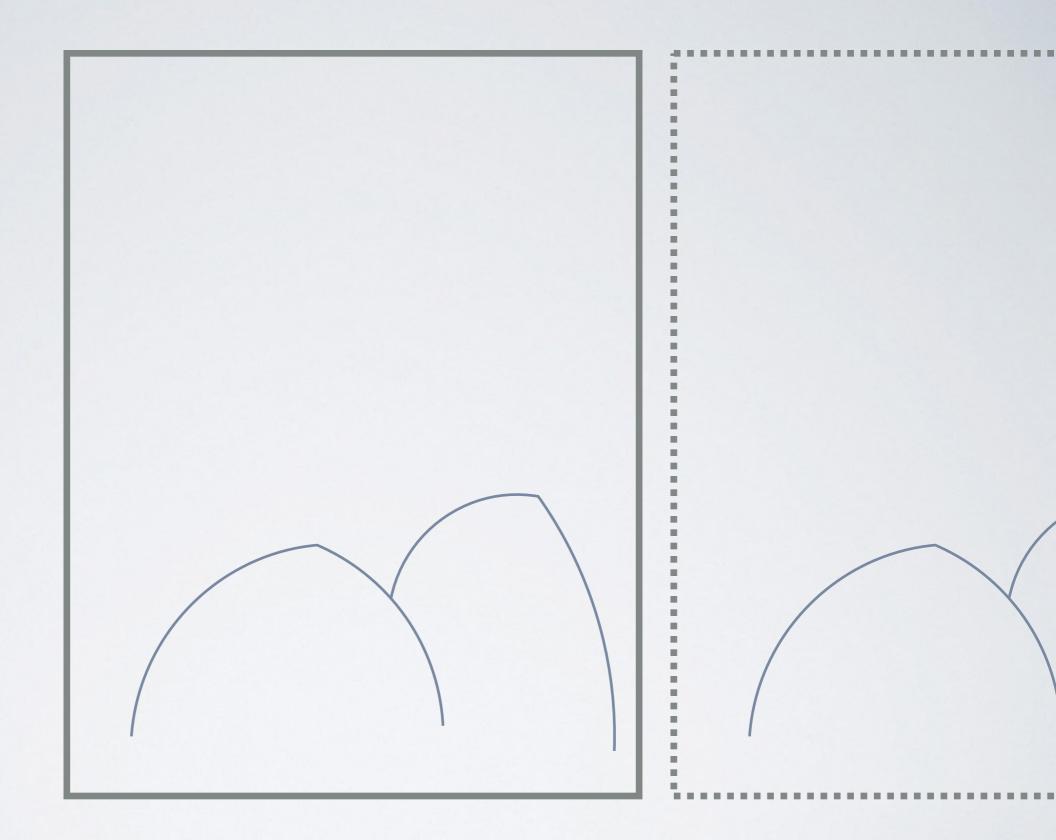
Gx = self.width / 2 - goal.width / 2Gy = 0

Px = -(self.width / 2 - pipe.width / 2) $Py = \pm (gapHeight / 2 + pipe.height/2)$





startX = frame.width + gate.width/2endX= - gate.width/2



Collision

Bit Masks

Circle = 0001 Square = 0010 Triangle = 0100 Diamond = 1000





	0110	
&	0010	
	0010	



```
Contact = Square | Triangle
= 0110
```



Sound

\$ afconvert -f caff -d LEI16@44100 -c 1 swoosh.wav swoosh.caf

Useful Resources

FlappyPig source and slide deck:

http://github.com/ryanthompson0123/FlappyPig

- Apple's SpriteKit Programming Guide (Google it)
- Ray Wenderlich SpriteKit tutorials

http://www.raywenderlich.com/tutorials