

Learning SpriteKit

by Justin Shacklette

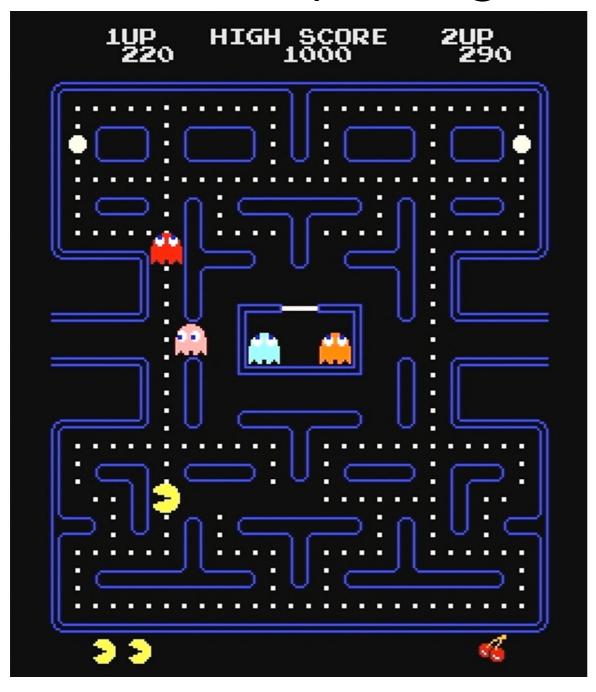
What is SpriteKit?

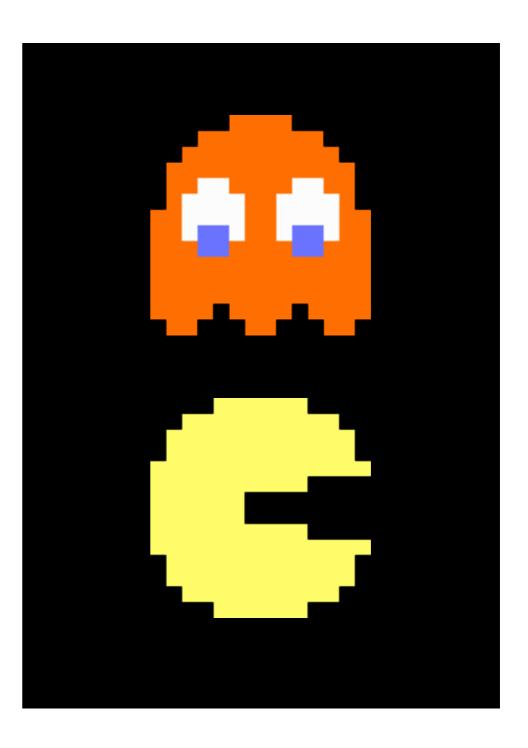
-2D game framework from Apple

```
sprites animation emitters animation particles physics physics events gestures
```

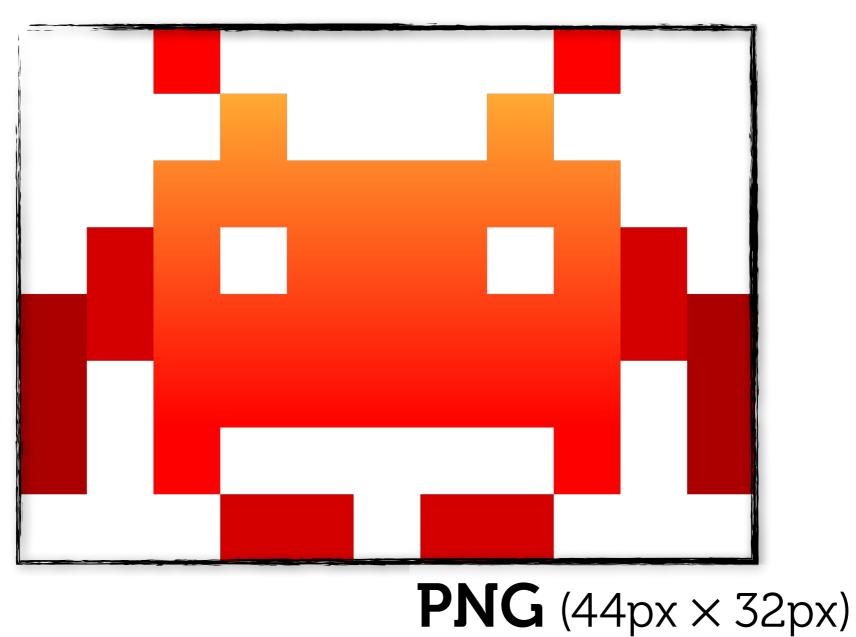
Sprites

-2D bitmap images

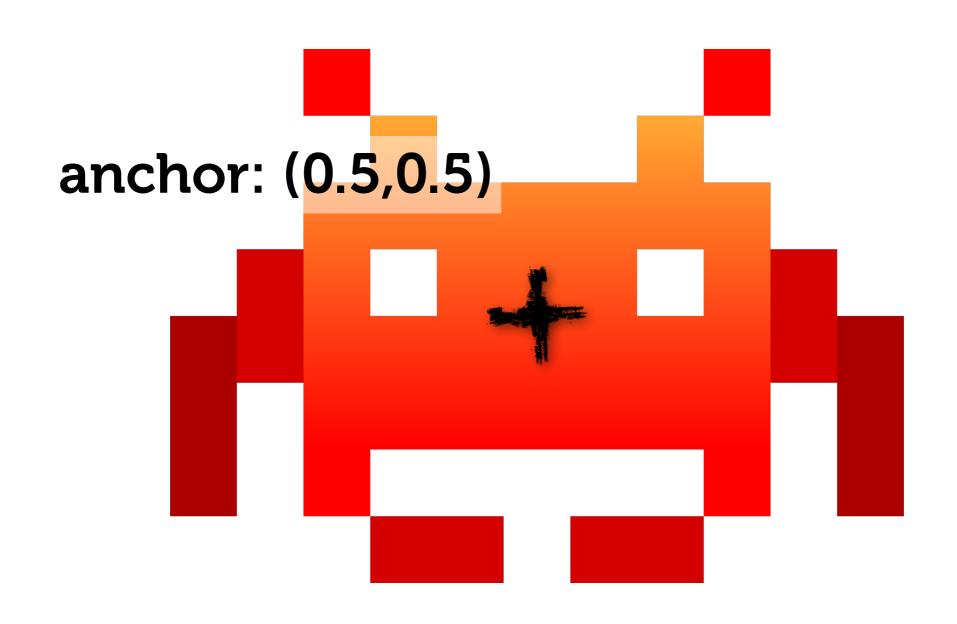




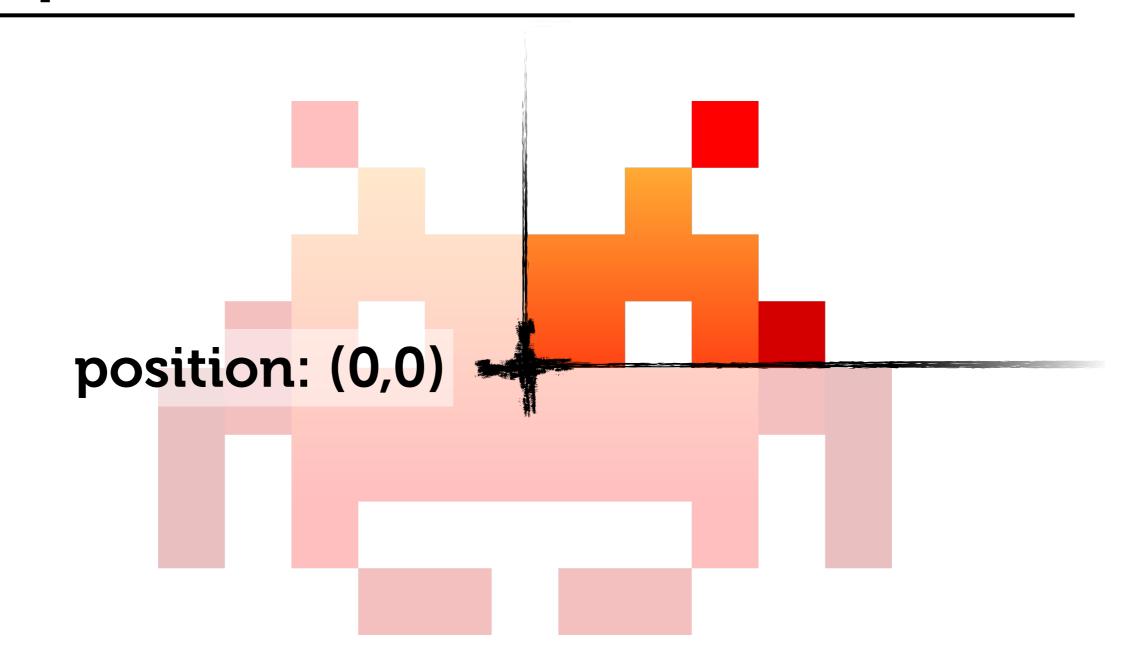
Sprite



Sprite Anchor



Sprite Position



Sprite Position

Points, not pixels

anchor: (0,0)

position: (0,0)

position: (W,H)

iPhone 4s

 320×480

iPhone 5s

 320×568

iPhone 6

 375×667

iPhone 6 Plus

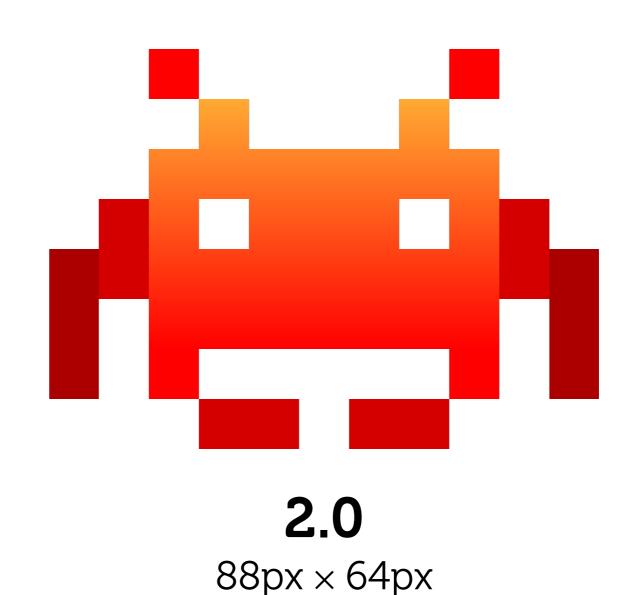
 414×736

iPad

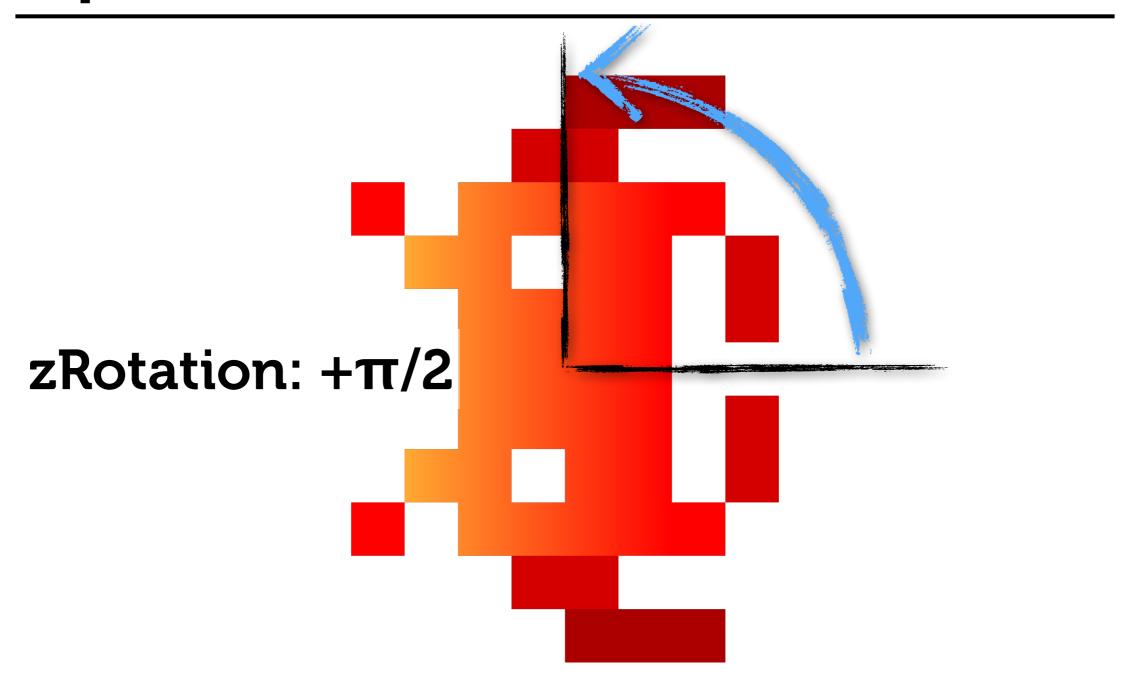
 768×1024

Sprite xScale, yScale



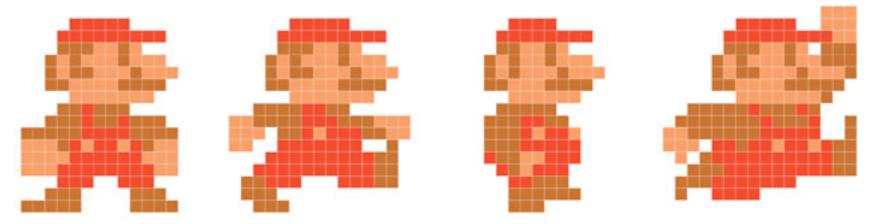


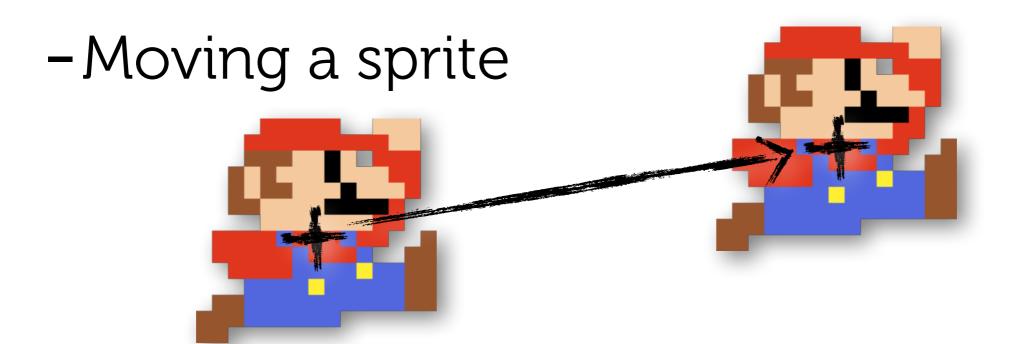
Sprite zRotation



Animation

-Animating a sprite





Touch Events

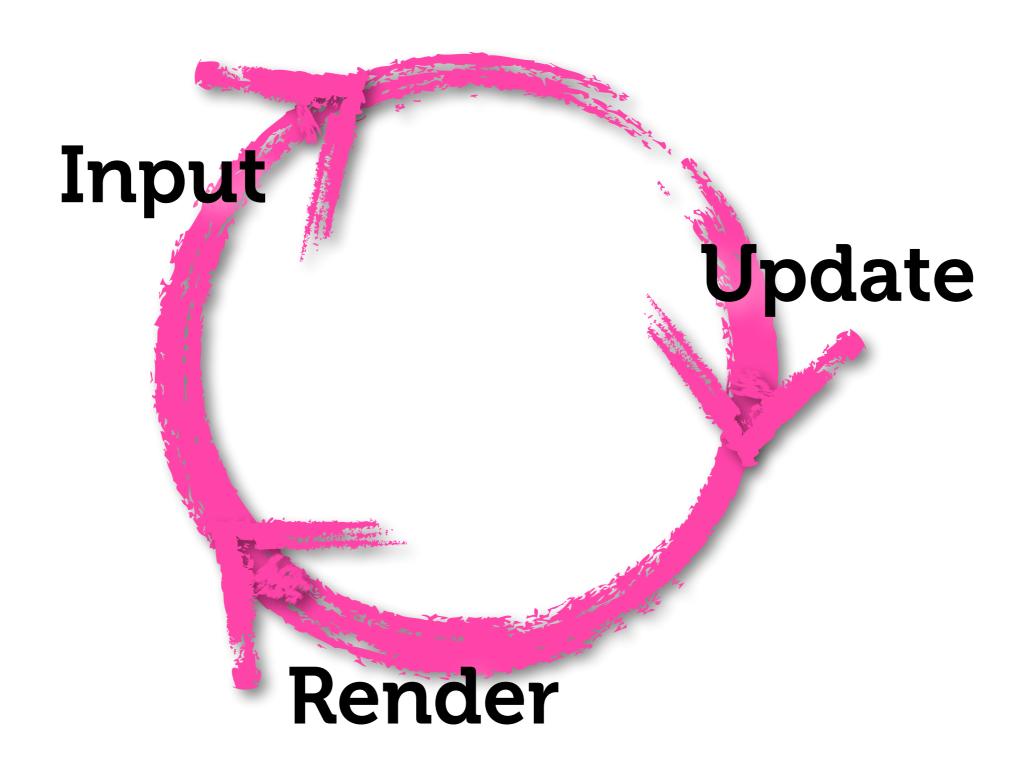
touchesEnded



touchesBegan

(0,0) (25,25) (50,50) (75,75) (100,100)

The Game Loop



Actions

- -Implicit built-in actions
 - -fade, move, rotate, tint, ...

```
SKAction.moveByX(25.0, y: 75.0, duration: 0.5)
SKAction.fadeOutWithDuration(0.5)
```

-Explicit - change property every frame

```
self.alien.position = CGPoint(x: 100.0, y: 100.0)
self.alien.alpha -= 0.002
```



iustin@saturnboy.com



asaturnboy



github.com/saturnboy



thezeroapp.com