

SpriteKit Games

by Justin Shacklette

ACIVISION



ACTIVISION FOUNDED IN 1979



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VIDEO GAME CARTRIDGE



FOR USE WITH THE ATARI VIDEO COMPUTER SYSTEM™







Activision Game Science

- -Better games...through data
 - Catch cheaters
 - Balance weapons
 - Better matchmaking
 - Much more...
- -Maximize fun / minimize un-fun
- -Blog:

http://activisiongamescience.github.io

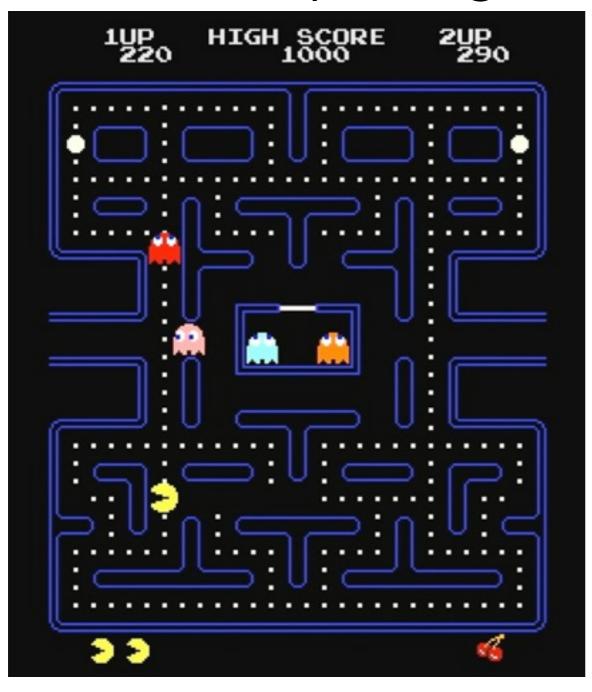
What is SpriteKit?

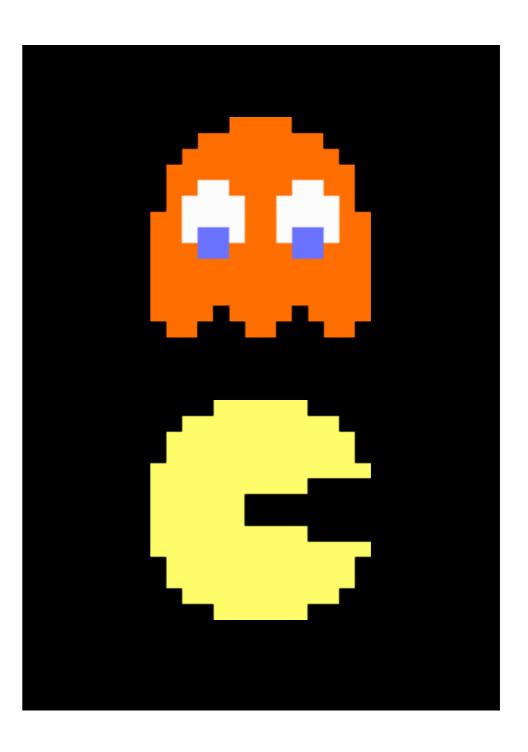
-2D game framework from Apple

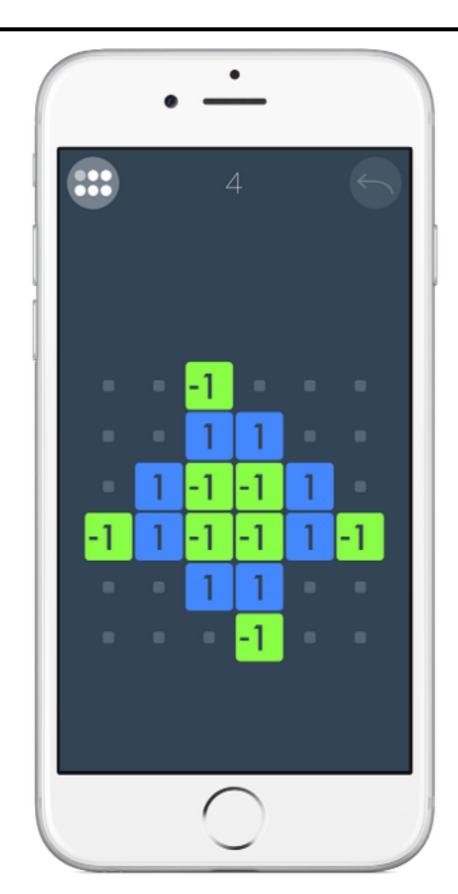
```
sprites animation emitters animation particles physics physics events gestures
```

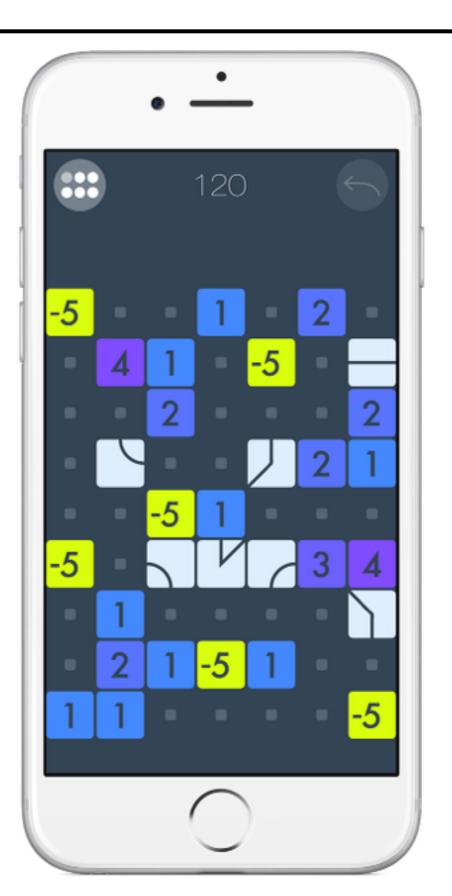
Sprites

-2D bitmap images

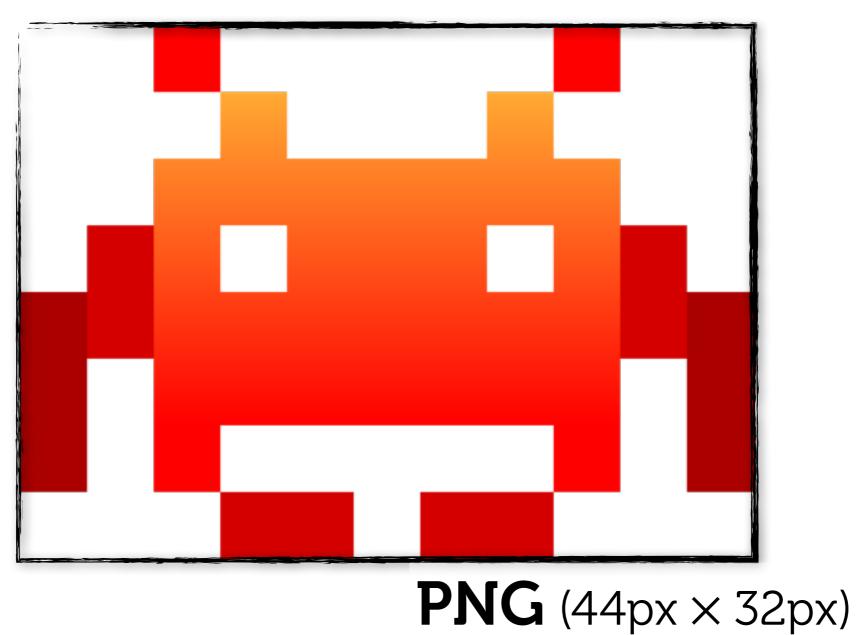




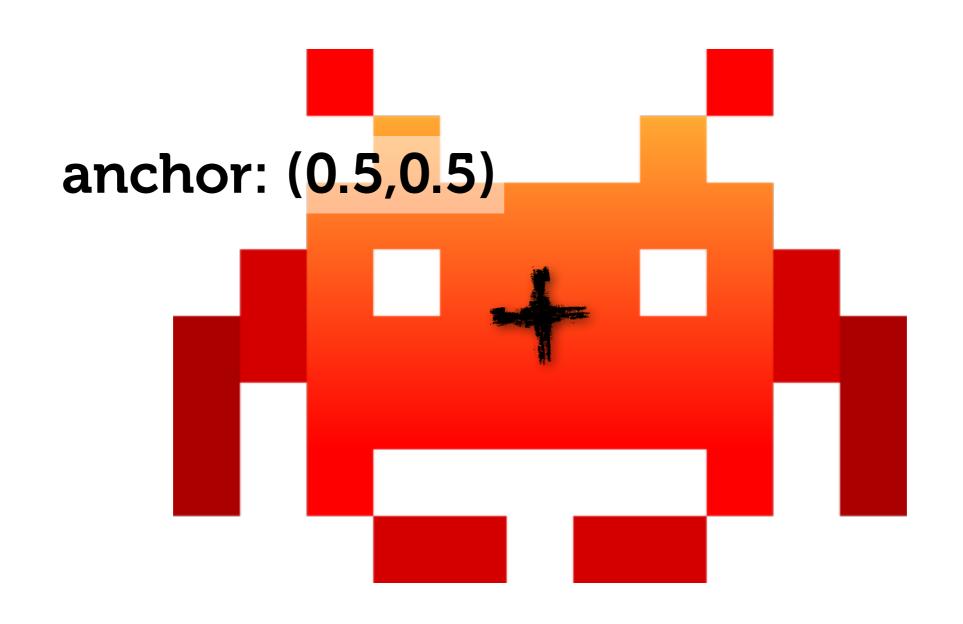




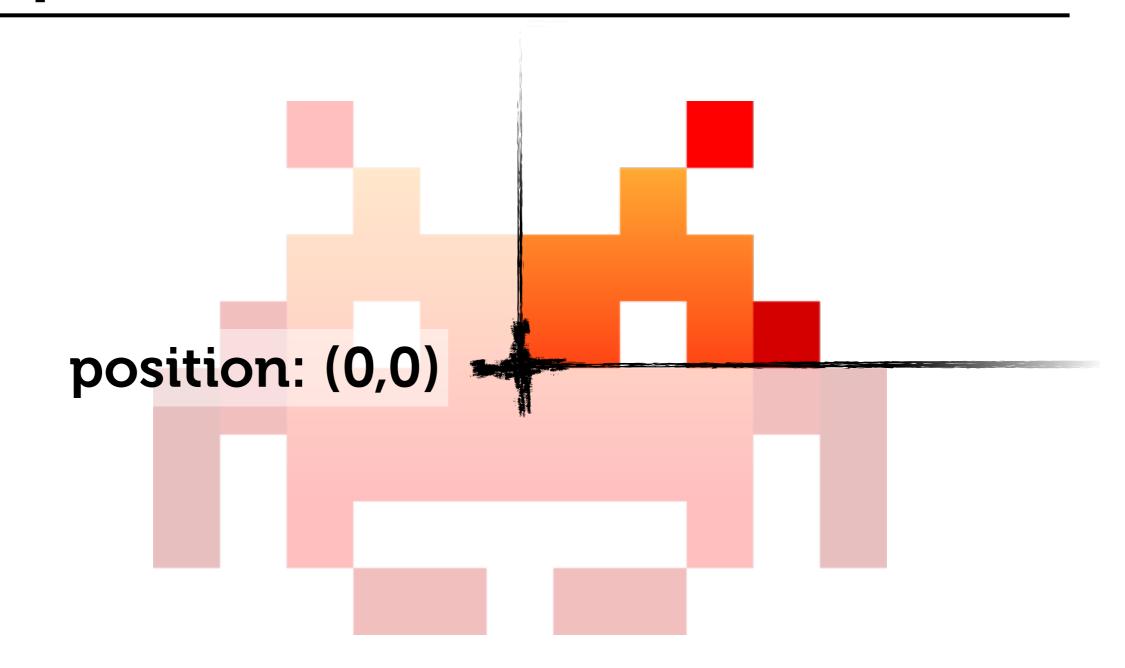
Sprite



Sprite Anchor



Sprite Position



Sprite Position

Points, not pixels

anchor: (0,0)

position: (0,0)

position: (W,H)

iPhone

 320×480

 320×568

 375×667

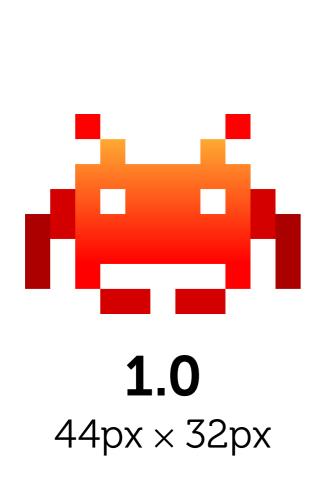
 414×736

iPad

 768×1024

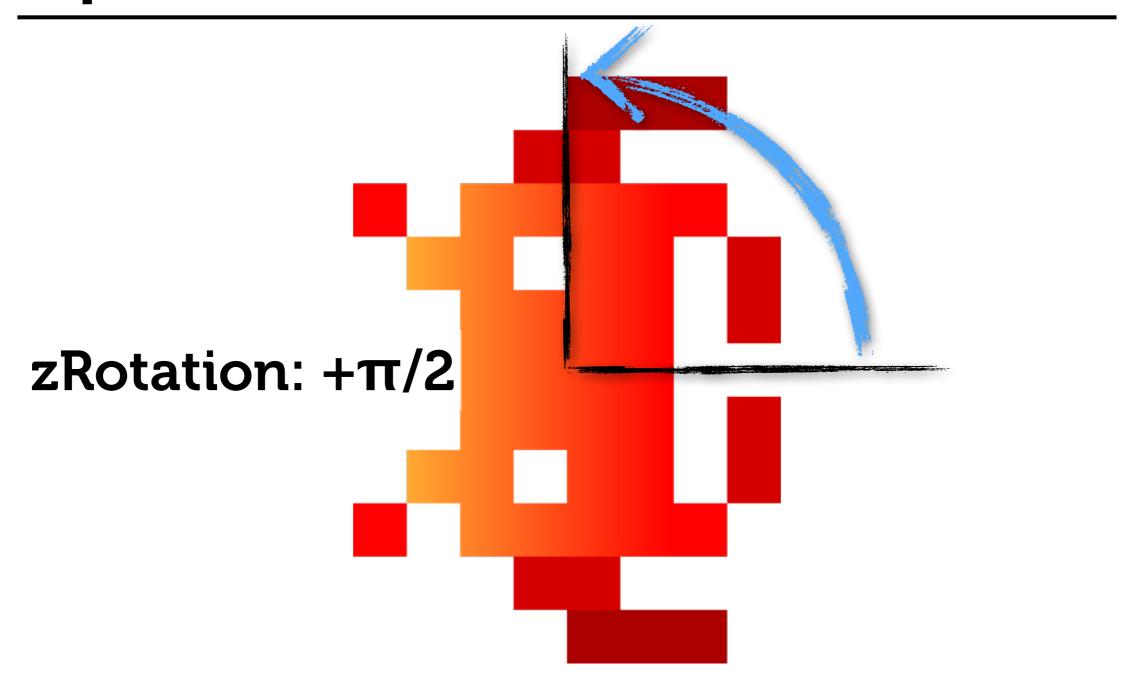
 1536×2048

Sprite xScale, yScale



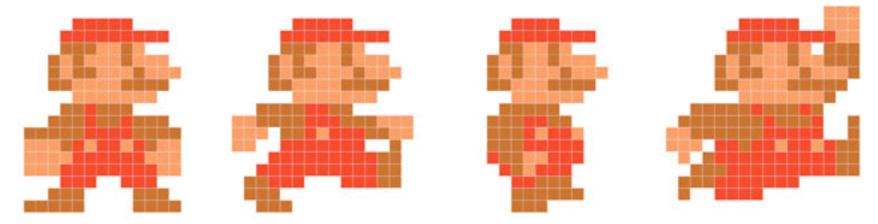


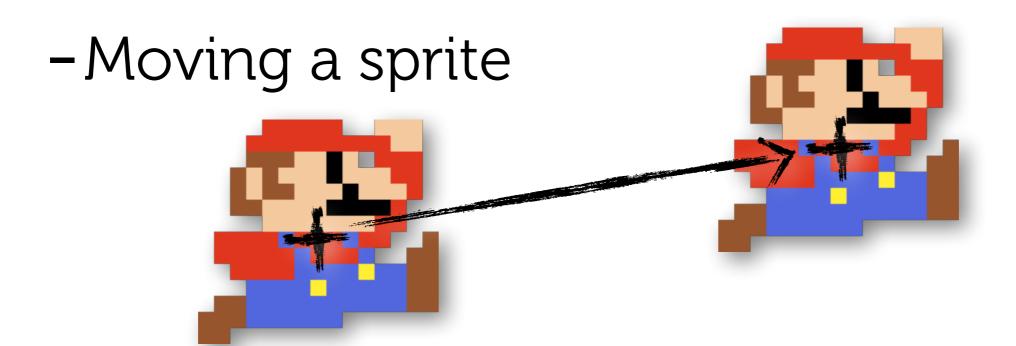
Sprite zRotation



Animation

-Animating a sprite





Touch Events

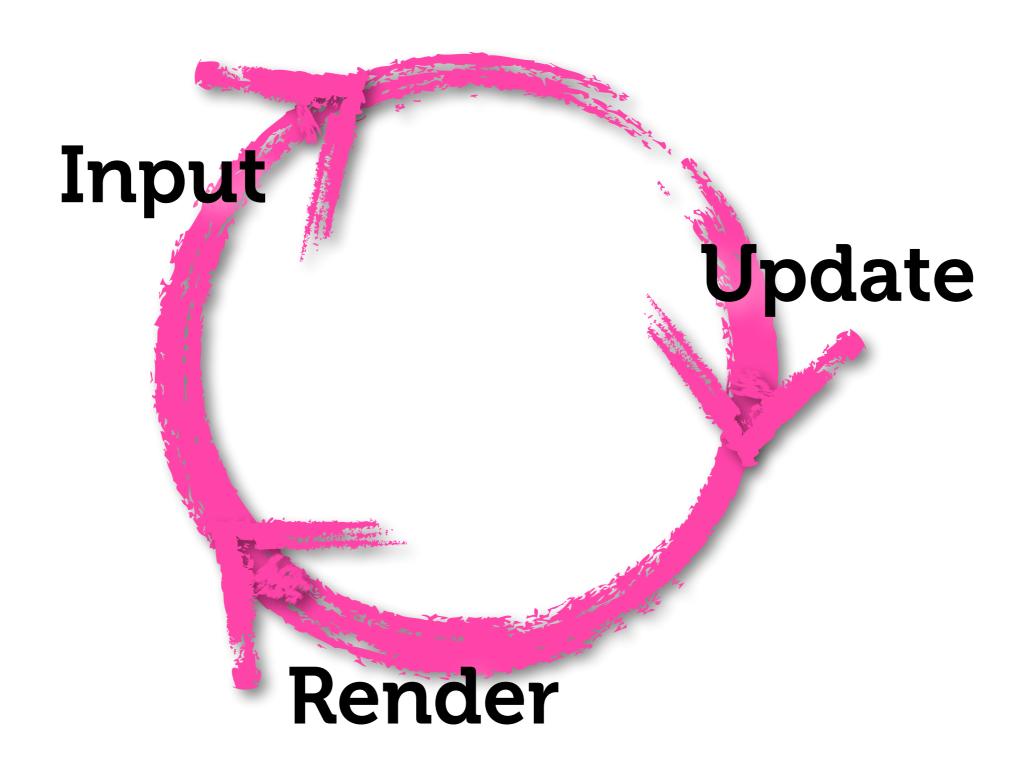
touchesEnded



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
```

Code



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asaturnboy



github.com/saturnboy



thezeroapp.com