SKTexture

An SKTexture is an object that holds an image that is used by SKSpriteNodes and SKShapeNodes

Each image used to create an **SKSpriteNode** is internally represented as an **SKTexture**

SKTexture

node = **SKSpriteNode**(texture: **SKTexture**) 1

You can create an **SKSpriteNode** by passing in a **SKTexture** in the constructor

Texture Atlases

A SKTextureAtlas is a collection of SKTexture objects created from a texture atlas stored in application's resource bundle

Place your image files in a folder with a name that ends with .atlas

Xcode will notice the .atlas extension and automatically combine the images into a texture atlas at compile time

BlackHole0@2x.png BlackHole0@3x.png

BlackHole1@2x.png

BlackHole1.png

Texture Atlases

Spritekit is optimized to work with texture atlases

Using an atlas can improve memory usage and rendering performance



Texture Atlases

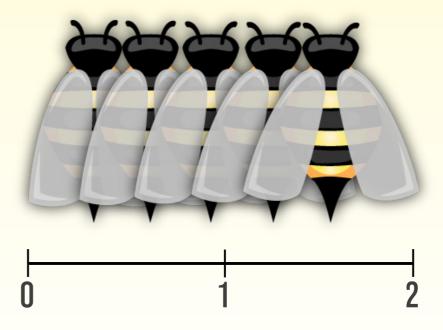
let textureAtlas = SKTextureAtlas(named: "sprites.atlas")

```
let frame0 = textureAtlas.textureNamed("Frame0")
let frame1 = textureAtlas.textureNamed("Frame1")
let frame2 = textureAtlas.textureNamed("Frame2")
let frame3 = textureAtlas.textureNamed("Frame3")
let frame4 = textureAtlas.textureNamed("Frame4")
```

let frameTextures: [SKTexture] = [frame0, frame1, frame2, frame3, frame4]

SKAction - Animations

let animate = SKAction.animate(with: frameTextures, timePerFrame: 0.4) node.run(animate)



SKAction - Animations

let animate = SKAction.animate(with: frameTextures, timePerFrame: 0.4)

node.run(animate) 3

- Pass in an array of [SKTexture] that the action will animate
- Time in seconds of each frame to be displayed
- 3 Call a node's run(_:) method and pass it the action object

Sequencing Animations

let **goombaWalk** = SKAction.**animate**(with: walkTextures, timePerFrame: 0.2) let **goombaFall** = SKAction.**animate**(with: fallTextures, timePerFrame: 0.2) let **goombaSequence** = SKAction.**sequence**([**goombaWalk**, **goombaFall**]) goomba.run(**goombaSequence**)

