## Introduction to iOS Development

Session 2 - Augmented Reality

### SceneKit

- 3D Rendering Engine
- Facade



# Usage

```
let scene = SCNScene()
```

## Usage

```
let scene = SCNScene()
let sceneView = SCNView()
```

### Usage

```
let scene = SCNScene()
let sceneView = SCNView()
sceneView.scene = scene
```

```
let sphere = SCNSphere(radius: 10)
```

```
sceneView.scene.rootNode.addChildNode(sphere)
sceneView.scene.rootNode.addChildNode(box)
sceneView.scene.rootNode.addChildNode(cone)
```

### **Positioning Shapes**

```
//x, y, z
sphere.position = SCNVector3(0,0,0)
```

#### **Positioning Shapes**

```
//x, y, z
sphere.position = SCNVector3(0,0,0)
//pitch, yaw, roll
sphere.eulerAngles = SCNVector3(0,0,0)
```

#### **ARKit**

- Augmented Reality Framework
- Introduced in iOS 11
- Requires a device with an A9 Chip or Later (iPhone 6S)