

// use Blender to convert .obj to .dae

convert .dae to .scn format    xcode → editor → convert to scn file

// ViewController.swift

import UIKit

import SceneKit

import ARKit

p-list → App Transport Security Settings

Allow Arbitrary Loads    Yes    ← add

class ViewController: UIViewController, ARSCNViewDelegate {

var sceneView: ARSCNView!

private var hud: MBProgressHUD!

override func viewDidLoad() {

super.viewDidLoad()

self.sceneView = ARSCNView(frame: self.view.frame)

self.view.addSubview(self.sceneView)

self.sceneView.autoenablesDefaultLighting = true

sceneView.delegate = self

let scene = SCNScene()

sceneView.scene = scene

downloadModels()

registerGestureRecognizers()

}

private func downloadModels() {

DispatchQueue.main.async {

self.hud = MBProgressHUD.showAdded(to: self.view, animated: true)

self.hud.label.text = "Downloading Resources"

}

let url = URL(string: "http://www.hiphoncoding.com/publicFolder/office.scn")!

URLSession.shared.dataTask(with: url) { data, response, error in

if let error = error {

print(error.localizedDescription)

return

}

if let data = data {

// save data to the phone

DispatchQueue.main.async {

self.hud.hide(animated: true, afterDelay: 1, 0)

}

}

}.resume()

}

private func registerGestureRecognizers()

let tapGestureRecognizer = UITapGestureRecognizer(target: self, action: #selector(tapped))

self.sceneView.addGestureRecognizer(tapGestureRecognizer)

}

@objc func tapped(recognizer: UIGestureRecognizer) {

// read the data



do {

let scene = try SCNScene(url: fileURL, options: nil)

let node = scene.rootNode.childNodes(withName: "Books", recursively: true)!

node.position = SCNVector3(0, 0, -0.5)

self.sceneView.scene.rootNode.addChildNode(node)

} catch {

print(error)

}

}