

ADVANCED BUILDING APPS FOR APPLE TV IDEV 2017

Justin Domnitz, Lowyoyo, LLC

Introduction

- Bachelors in Computer
 Engineering from Georgia Tech
 and an MBA from Georgia State.
- Software development, primarily in the retail and food service technology space.
- Independent contractor, focusing entirely developing software for the mobile platform.



Agenda

- Xcode 9 beta 5 / iOS & tvOS 11
- Anyone here for last year's Apple TV presentation?
 Anyone already developed their own Apple TV app?
- Extending iOS Applications
- Disk Storage & CloudKit
- User Experience
- Resources
- Q&A

Extending iOS Applications

- Many classes can be shared between iOS and tvOS. Interfaces, Utilities, etc.
- xibs cannot be shared between the two platforms. But, you can share their underlying class.
 - Let's look at some code to examine some short cuts for sharing xib layouts (as much as we can).

Disk Storage & CloudKit

- User defaults work the same as iOS.
- Note that tvOS doesn't support iCloud Documents.
- Apple provides two shared storage options for Apple TV: iCloud Key-Value Storage (KVS) and CloudKit.

 - □ CloudKit (>1MB)
- ODR On-Demand Resources

Disk Storage & CloudKit

- Setup
 - Sign into iCloud on simulators
 - Enable iCloud Drive on iOS simulator
 - Background fetch
 - Remote notifications
- iCloud
 - Specify container
 - fileManager.ubiquityIdentityToken not available on tvOS and watchOS. KVS is not available at all on watchOS.
 - A note about entitlements
- Let's look at some code!

User Experience

- Focus Engine
- Overscan
 - T tvOS 10
 - UIScrollView.overscanCompensationInsets
 - tvOS 11
 - UIView.safeAreaInsets
 - UIView.safeAreaLayoutGuide
 - UIViewController.addtionalSafeAreaInsets
 - Opting-out
 - view.insetsLayoutMarginsFromSafeArea = false
 - viewController.viewRespectsSystemMiniumLayoutMargin= false
 - scrollView.contentInsetAdjustmentBehavior = .never

User Experience

- Buttons
 - tvOS 10
 - UIButtonTypeSystem
 - tvOS 11
 - UIButtonTypePlain
 - No background blur Full customization
- Images
 - tvOS 11
 - UllmageView.overlayContentView
 - UllmageView.overlayContentView.clipsToBounds = true / false
 - Add additional views here. Really cool!
- Blur
 - viewController.modalPresentationStyle.blurOverFullScreen

Resources

- WWDC2016

 https://developer.apple.com/videos/play/wwdc2016/231/

 WWDC2017

 https://developer.apple.com/videos/play/wwdc2017/209/
 https://developer.apple.com/videos/play/wwdc2017/224/

 http://www.lowyoyo.com
 https://github.com/justindomnitz/iDev2016_tvOS
- http://stackoverflow.com/users/4877241/justin-domnitz

https://github.com/justindomnitz/iDev2017_tvOS

Q&A

- Justin Domnitz
- @justindomnitz
- justin.domnitz@lowyoyo.com
- +1 (678) 523-2505

Overview

- Extending your application to the Apple TV is not a straightforward task.
 Will look at some common iOS paradigms and how those can be reworked for Apple TV.
- The Apple TV handles disk storage differently than other iOS devices. We'll work with CloudKit to understand and leverage this new space-saving on-demand data access.
- The Apple TV provides an enormous canvas for you applications. It also provides limited user input. We'll explore how best organize our apps for the best user experience.
- Having a basic understanding of Swift programming and Apple TV development is a recommended prior to attending this talk.