Mastering Xcode for iPhone OS Development

Part 1

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Todd Fernandez Sr. Manager, IDEs



Customer Reviews

Current Version (1) All Versions (24)

Write a Review >

Gorgeous and Addictive

by Play 4 Keeps - Version 2.0 - May 29, 2010

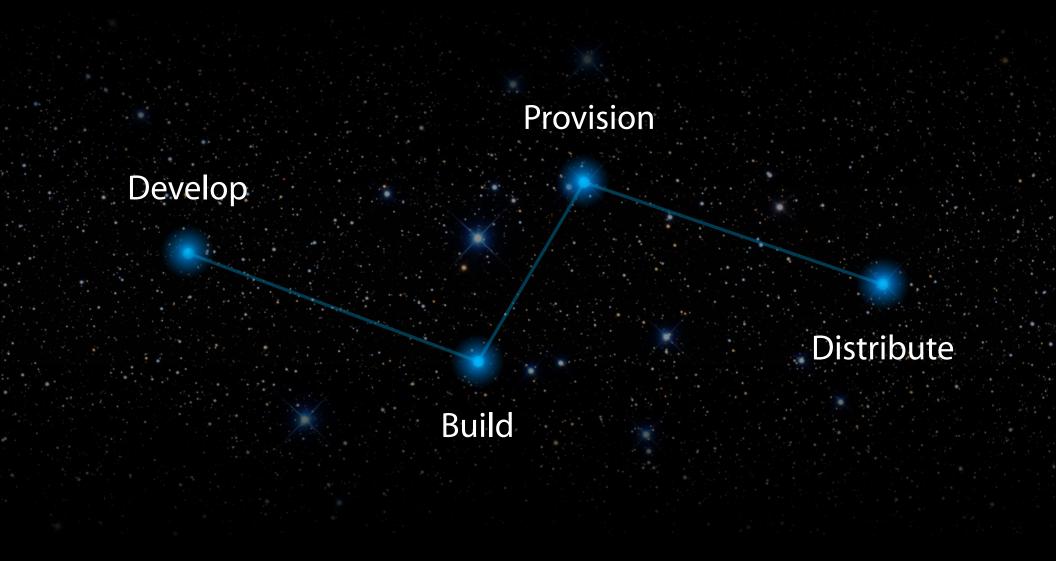
This ebook app is so beautiful and so much fun that my grandkids can't leave it alone. Honestly, I'm mesmerized too. The new 12 piece puzzle came along just in time. They were ready for the new challenge.

They are big fans of the Miss Spider series on Nick, Jr. Hopefully there will be more e-Books to come. Considering the amoun of read and playtime this app inspires it delivers good value even at \$9.99

Was this review helpful? Yes I No

Report a Concern >



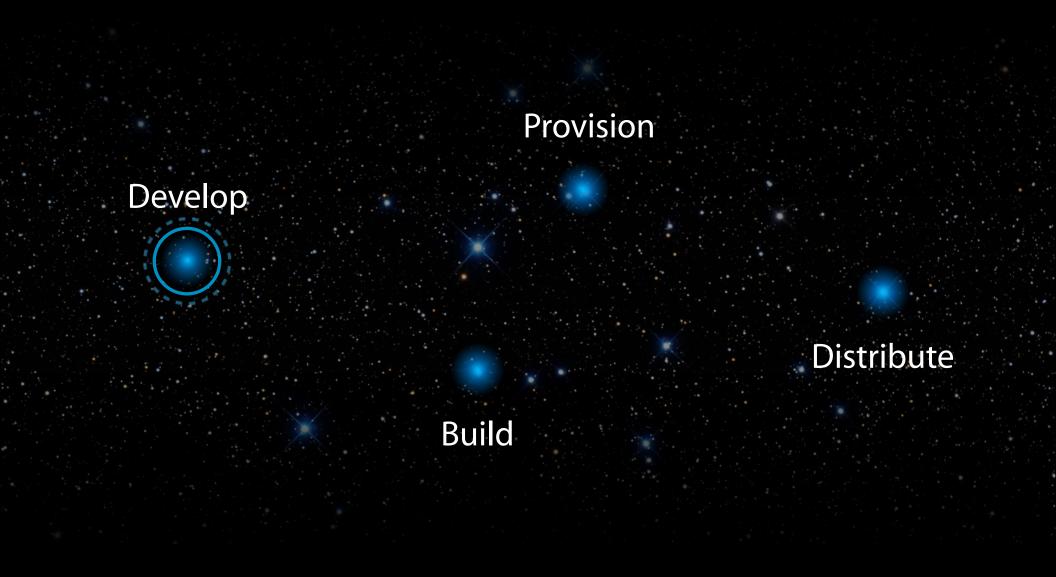


Tale of Two Sessions

• Part 1: Orientation: tour of complete development cycle

• Part 2: Mastery: details of several critical areas







Project Templates

- Different app types
- iPhone vs. iPad vs. Universal
- Create working apps

Project Templates

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- Different app types
- iPhone vs. iPad vs. Universal
- Create working apps
- Upgrade existing iPhone projects for iPad

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Project Settings

- Base SDK
 - APIs your app uses
 - Always build against latest SDK
- iPhone OS Deployment Target
 - Earliest OS version app supports
- Targeted Device Family
 - Devices app supports

Project Editing

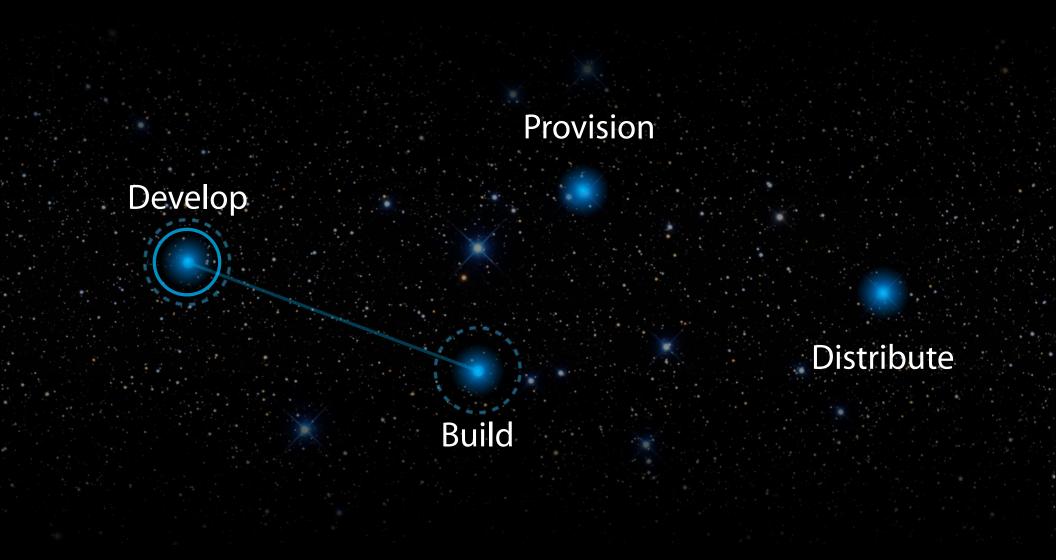
- Source Editor
 - Code completion
 - Edit All in Scope
- Interface Builder
- Building
 - Analyzer
- Documentation
 - Quick Help

Demo Develop

Jacob Xiao iPhone Tools Engineer

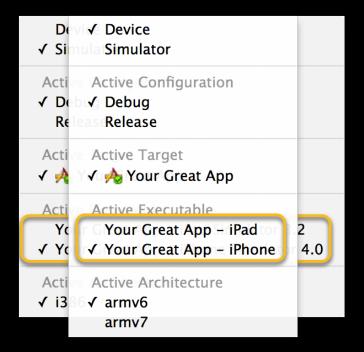
Develop Demo

- Create Universal app project
- Source code and interface editing workflows
- Quick Help and documentation
- Build and debug in iPhone Simulator



Build Device or Simulator

- Simplified Overview popup
- Choose your destination!
 - Device and specific device
 - Simulator and specific OS version



Build Simulator

- Build once and simulate on multiple OS versions
- Uses modern Objective-C runtime ABI
 - Don't declare instance variables for properties
 - Do rebuild any code built with older SDK





Build Device

- Incremental uploading to the device
 - Only changed bits uploaded
 - Faster build and debug turnaround





Build Simulator vs. Device

- Use iPhone Simulator for faster turnaround
- Test every model you support

(you can cheat on the different colors)





Why Test on a Device



Test on Older Devices and OS Versions

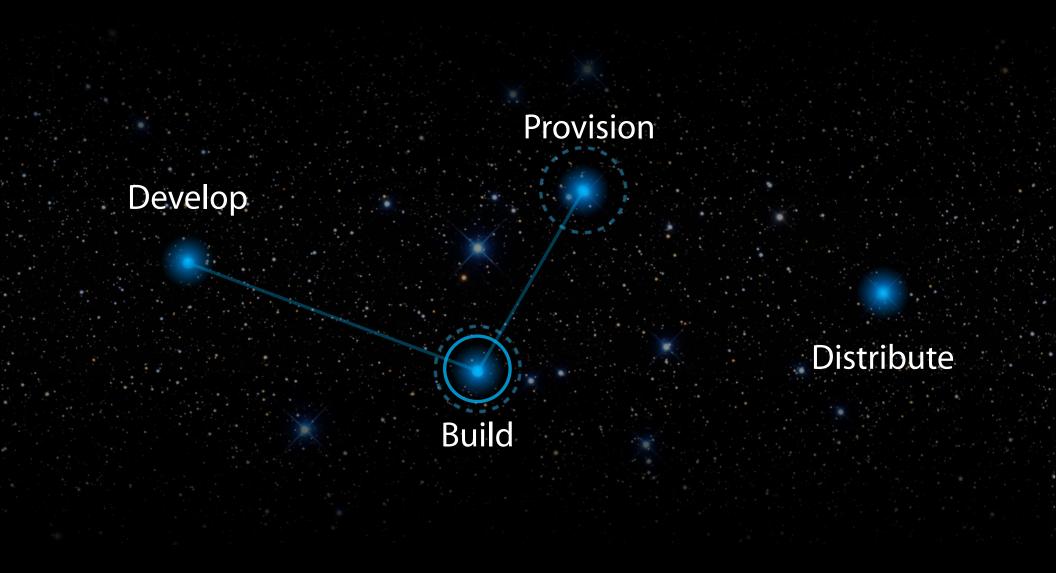
- Know how app performs for all users
- Keep devices running the older OS versions





OS and Device Support Timeline











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Automatic Device Provisioning Basics

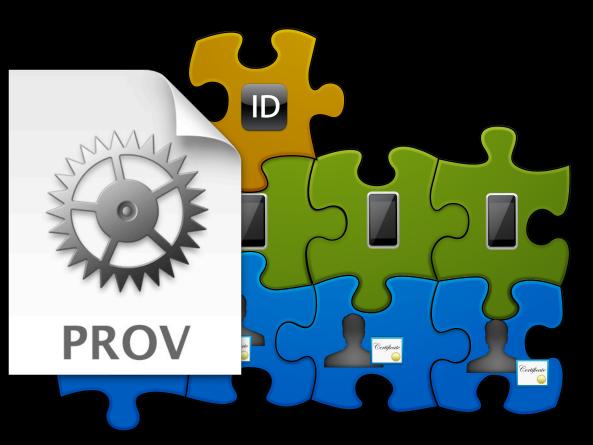
- We made the simple cases simple
- Join iPhone Developer Program
- Everything else in Xcode



App ID Wildcard for development

Team Member Devices

Development Team Certificates





Automatic Device Provisioning Updating

- New profile generated
 - New team member
 - New device
- Simply click refresh in Organizer to get the latest profile for your team



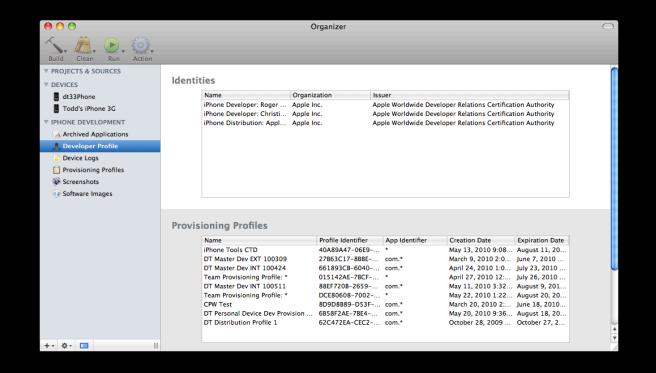
Automatic Device Provisioning Advanced

- Create at iPhone Provisioning Portal
 - Custom development provisioning profiles
 - Distribution provisioning profiles
- Xcode still manages them for you

Developer Profiles



- Code signing certificates and provisioning profiles
- Move to new development system



Debugging, Tuning, and Testing

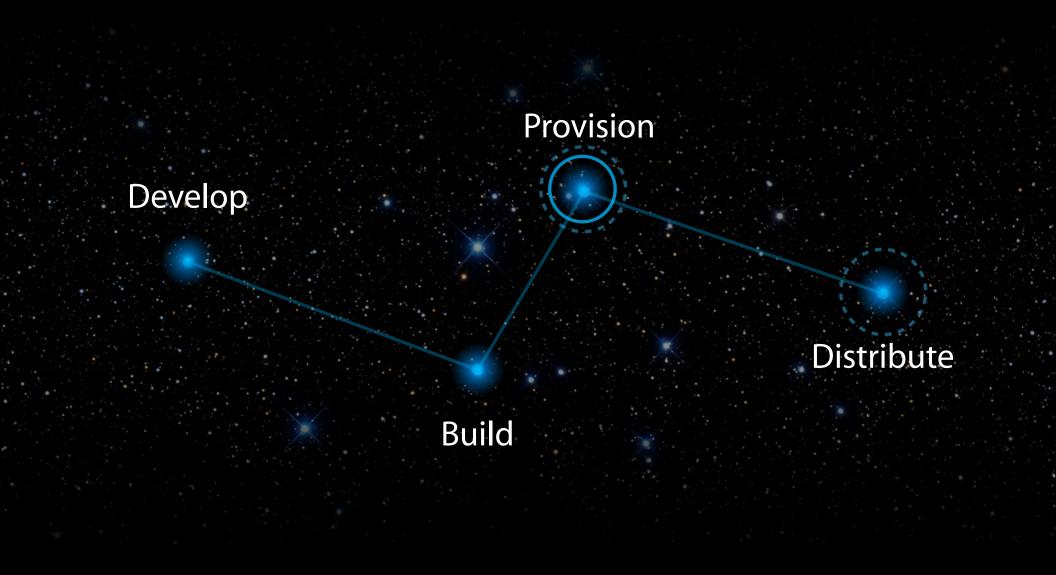
- Debugging push notifications
- Instruments
- UI automation

Demo Provision and Build

Chris Skogen iPhone Tools Engineer

Provision and Build Demo

- Building for device
- Debugging
- Instruments
- UI automation



Distribution

- First-class support in Xcode
- Archives
 - Freeze build of your app
 - Preserve debug information
 - Support testing



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Archive Contents



Archive vs. SCM

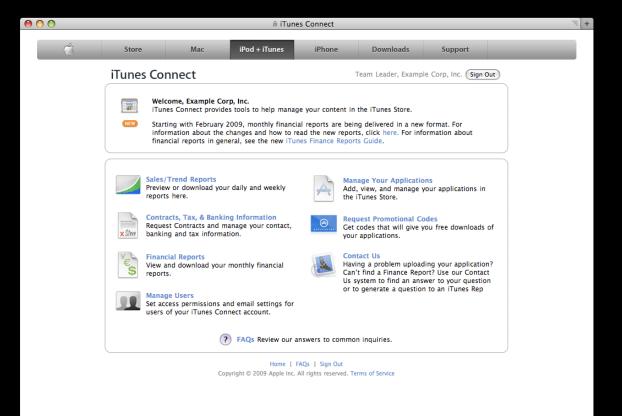
- Source code that was used to build a particular version
- Each build is unique
- Source code cannot replace an archive

Validation



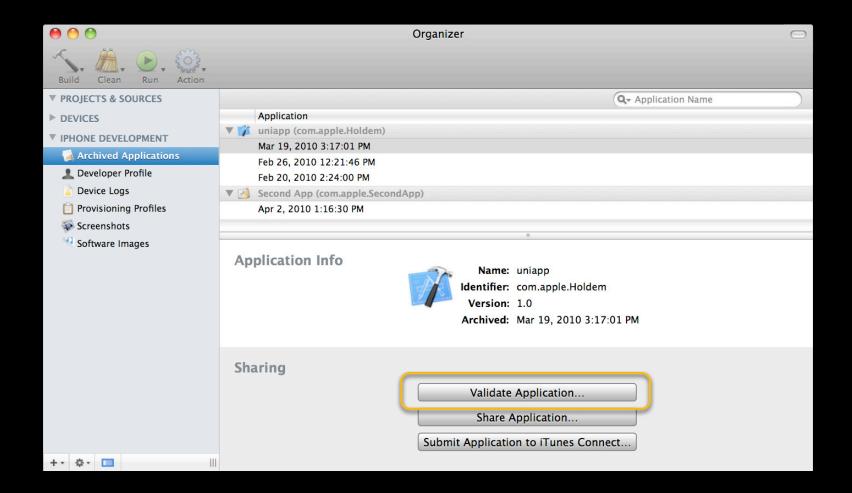
- Performs tests from App Store review process
- Detects many different common problems
- Suggests fixes
- Validate early and often
 - Build
 - Distribute

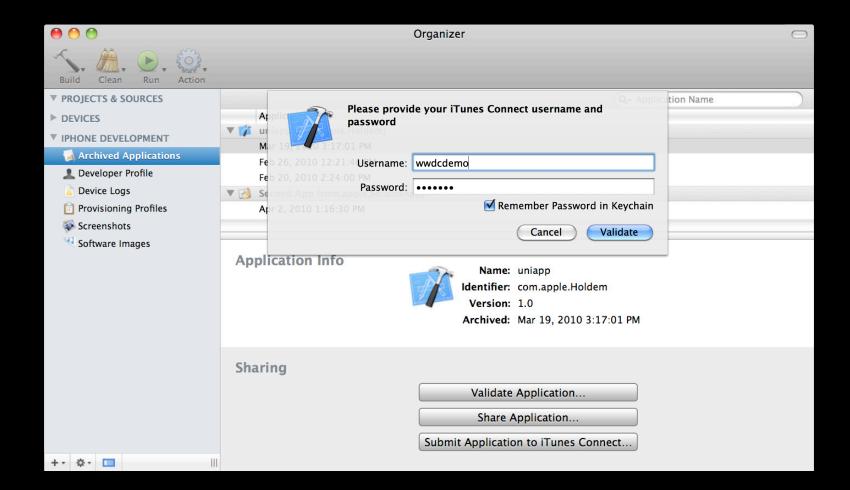
iTunes Connect

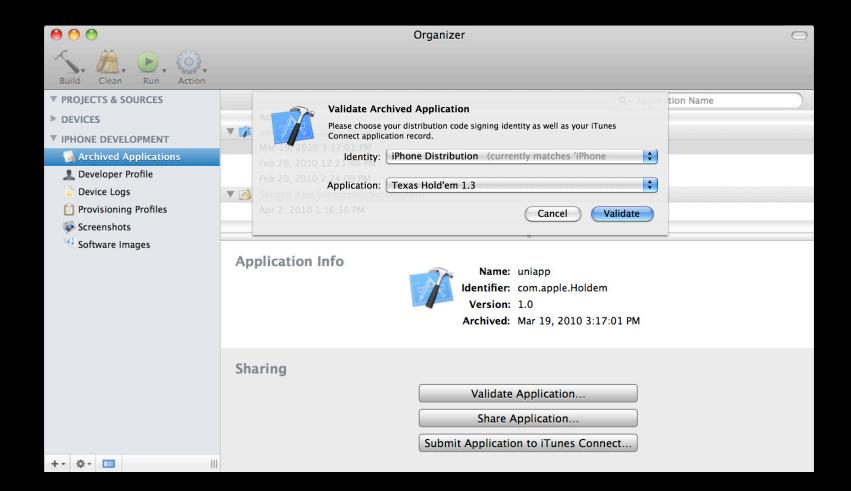


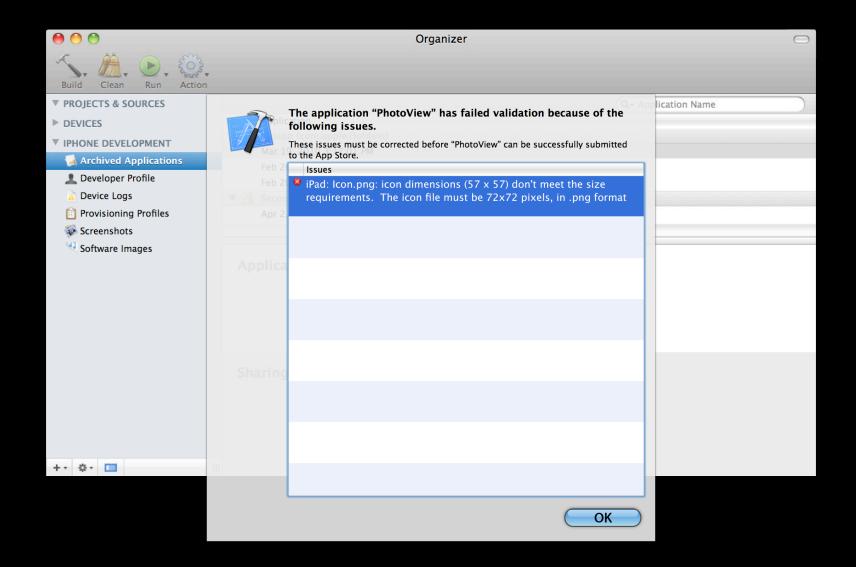
Screenshots

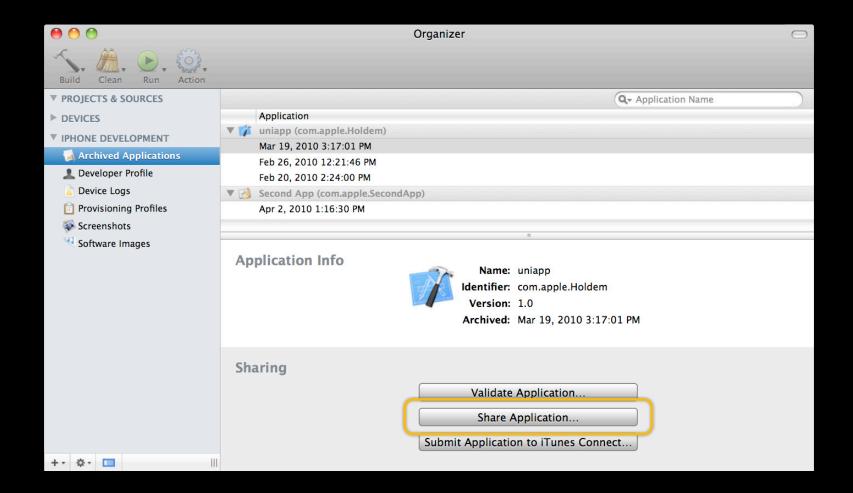
- Marketing
- Launch image
- Debugging
- Documentation











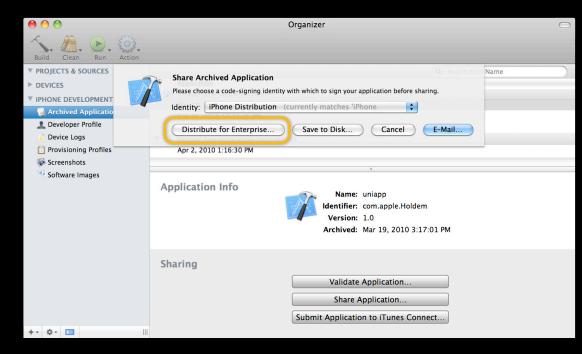
Ad Hoc Distribution

- Beta testing
- Limited audience
- Email
- Web

00	Organizer	
Build Clean Run Action		
 PROJECTS & SOURCES DEVICES IPHONE DEVELOPMENT Archived Applicatio Device Logs Provisioning Profiles Screenshots Software Images 	Share Archived Application Name Please choose a code-signing identity with which to sign your application before sharing. Identity: Identity: iPhone Distribution currently matches 'iPhone Distribute for Enterprise Save to Disk Cancel Apr 2, 2010 1:16:30 PM E-Mail Application Info Name: uniapp Identifier: com.apple.Holdem Version: 1.0 Archived: Mar 19, 2010 3:17:01 PM	
	Sharing Validate Application Share Application Submit Application to iTunes Connect	
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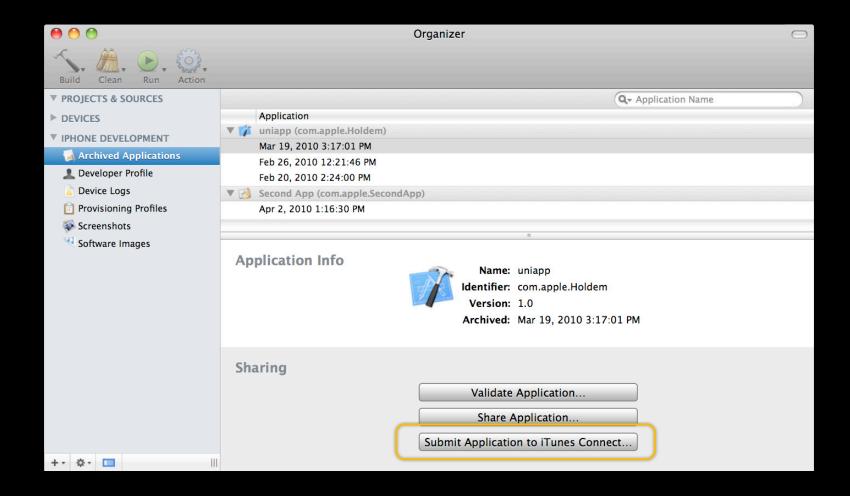
Enterprise Distribution

- Make available on website
- Scales better than ad hoc



Managing Mobile Devices

Nob Hill Tuesday 3:15PM





Demo Distribute

Clark Cox iPhone Tools Engineer

Distribute Demo

- Archived applications
- Validation
- Sharing
- Screenshots
- Crash logs
- Device restores
- Device console



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More Information

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Developer Tools Evangelist jurewitz@apple.com

iPhone Dev Center

iPhone Development Documentation and Resources http://developer.apple.com/iphone

Developer Forum iPhone Developer Tools Forum https://devforums.apple.com/community/iphone/devtools

Related Sessions

Managing Mobile Devices	Nob Hill Tuesday 3:15PM
Mastering Xcode for iPhone OS Development Part 2	Pacific Heights Wednesday 10:15AM
What's New in Instruments	Presidio Wednesday 11:30AM
Automating User Interface Testing with Instruments	Marina Wednesday 2:00PM
Designing Apps with Interface Builder	Mission Wednesday 2:00PM
Introducing Xcode 4	Mission Wednesday 3:15PM
App Publishing with iTunes Connect	Mission Thursday 10:15AM

Labs

Xcode for iPhone Development Lab	Developer Tools Lab B Tuesday 3:15PM-6:30PM
iPhone OS Performance Lab	Application Frameworks Lab B Wednesday 9:00PM-11:15AM
Xcode for iPhone Development Lab	Developer Tools Lab B Wednesday 2:00PM-4:00PM
Automated User Interface Testing Lab	Developer Tools Lab A Wednesday 4:30PM-6:30PM
Interface Builder Lab	Developer Tools Lab B Thursday 9:00AM-11:15AM
Xcode 4 Lab	Developer Tools Lab A Wednesday 9:00AM-11:15AM
iPhone OS Performance Lab	Developer Tools Lab A Thursday 4:30PM-6:00PM



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