

Mobile Software Development

- Android
 - Java (most J2SE)
 - Eclipse
 - Android SDK
 - Android Demo
- iOS (iPhone,iPad,...)
 - Objective-C
 - Xcode
 - Cocoa Touch
 - iOS Demo

Presentation & Source:

<http://dl.dropbox.com/u/1479/jhug.zip>

Android Architecture



Android User Interface

- Back Button
- Home Button
- (Menu Button)
- ...



Basic Components

- Activities
 - Independent UI Screens
 - <http://developer.android.com/reference/android/app/Activity.html#ActivityLifecycle>
- Intents
 - Asynchronous Messages
 - Connect Activities/Services/...
- User Interface (Layouts, Views, Widgets etc)
- Other
 - Services, Content Providers, Asynchronous Tasks etc

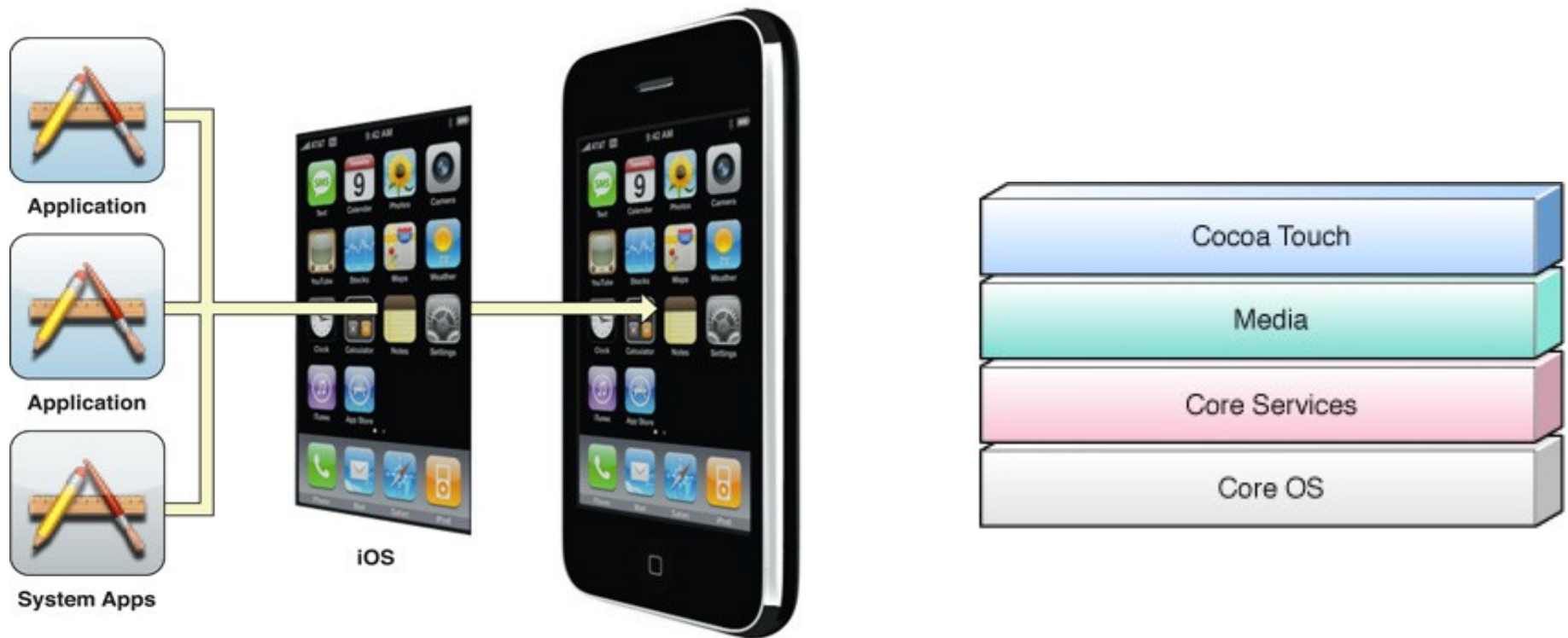
Android Project Structure

- Source (Activities etc)
- Resources => Generated Code (R.*)
 - Drawables (Images etc)
 - Layouts (User Interfaces in XML)
 - Values (Strings, Menus etc)
- Assets
 - Raw resources (Web pages, Fonts etc)
- Manifest
 - Declarations (activities etc)
 - Permissions, Requirements etc

Android Developer Resources

- <http://developer.android.com/>
 - <http://developer.android.com/sdk/installing.html>
 - <http://developer.android.com/guide/index.html>
 - <http://developer.android.com/resources/index.html>
 - <http://developer.android.com/videos/index.html>
- <http://www.anddev.org/>
- <http://source.android.com/>

iOS Architecture



Objective-C Basics

- Class: Interface (.h) + Implementation (.m)
- Objects
 - Initializing
 - id (generic like java Object)
- Methods
 - Declaration (object, class, c-style)
 - Calls (aka Messaging)
 - self (like java this.)
- Properties
- Inheritance and Delegates

iOS Development Basics

- Interface Builder
- Outlets
- Actions
- View Controllers
- Application Delegate
- Resources (Images, Nibs, Plists etc)

iOS Developer Resources

- <http://developer.apple.com/devcenter/ios/>
 - Objective C (PDF Book)
 - iOS Development Guide
 - Samples, Guides, API Reference etc
 - Download Xcode (You need a free account to start)
- <https://devforums.apple.com/>
- <http://iphonedevsdk.com/>
- Developing Apps for iOS (iTunes Video)