iOS Application Development

A Quick Overview







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distributed object programming lab

Roadmap

- □ The ios platform overview
- Development process & tools
- □ Next steps...

From Mac OS X...



...to iOS





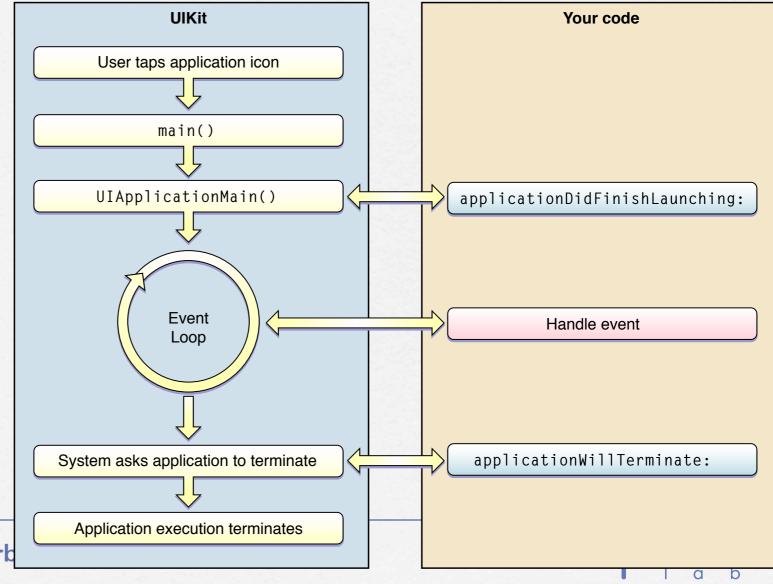
multi-touch events
multi-touch controls
view hierarchies
controllers
web views
image pickers
accelerometer
alerts
etc...

Application life cycle

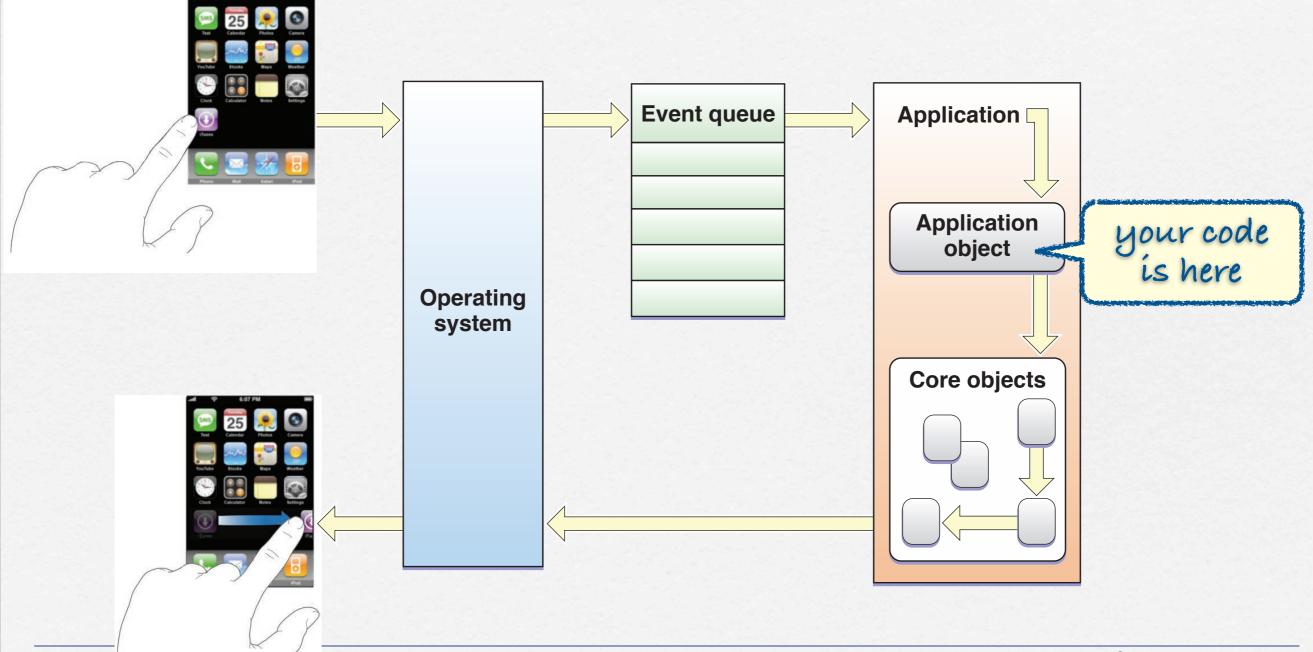
□ Each application runs in a sandbox

I Essentially a callback model, i.e., you have no control over

the sequence of actions executed by application



Event & drawing cycle



Typical application template

```
import UIKit
@UIApplicationMain
                                                                                     SWIF
class AppDelegate: UIResponder, UIApplicationDelegate {
    var window: UIWindow?
    func application(_ application: UIApplication, didFinishLaunchingWithOptions
                       launchOptions: [UIApplication.LaunchOptionsKey: Any]?) -> Bool {
       return true
    func applicationWillResignActive(_ application: UIApplication) { ... }
    func applicationDidEnterBackground(_ application: UIApplication) { ...}
    func applicationWillEnterForeground(_ application: UIApplication) { ...}
    func applicationDidBecomeActive(_ application: UIApplication) { ...}
    func applicationWillTerminate(_ application: UIApplication) { ...}
```

Development tools



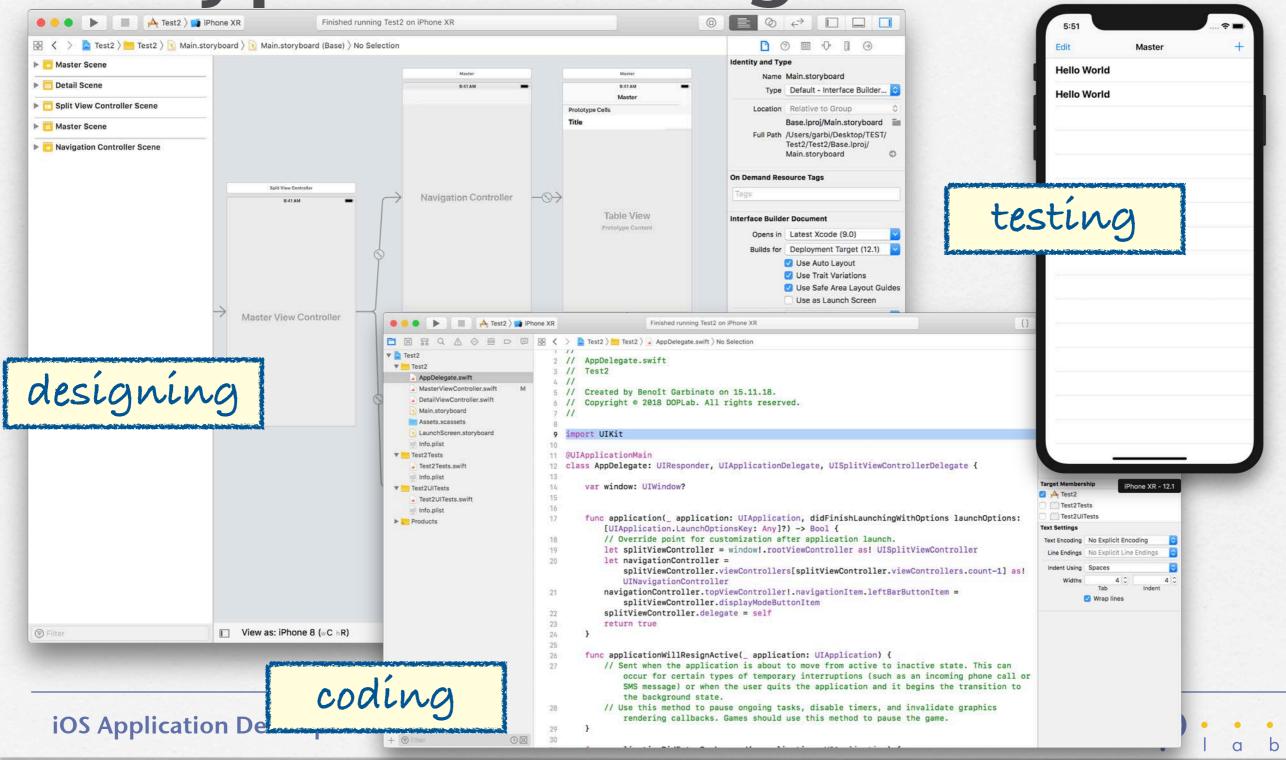
Xcode for editing your source code, building user interfaces, compiling



The iOS simulator for testing and debugging your application



You can also use your real ios device but you need to be registered as Apple developer A typical working session



Next steps...

- O Get familiar with these tools
- Do the iOS app development tutorial