

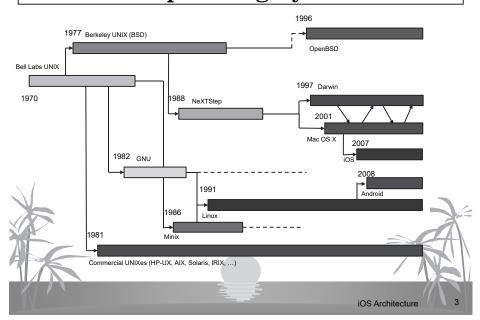
General Characteristics

❖ iPhone

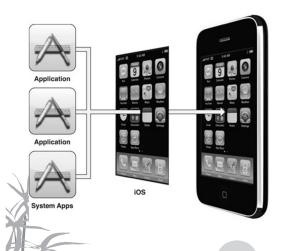
- Appeared on June 2007
 - ♦ OS named iPhone OS 1
 - ♦ First SDK appeared in March 2008
- OS and SDK renamed to iOS 4 on June 2010
- Multi-touch display, with gesture recognition
- Sensors (3-axis accelerometer, proximity, light)
- Camera (2 Mpixel)
- 3.5" 18 bit 320x480 2:3 aspect and 163 ppi display
- Rich audio and video
- Wireless comms
 - ◆ GSM / GPRS / EDGE
 - ◆ Wi-Fi and Bluetooth

iOS Architecture

iOS Operating System



iOS and Hardware



iOS supplies the API's needed to develop the final user applications and some system applications

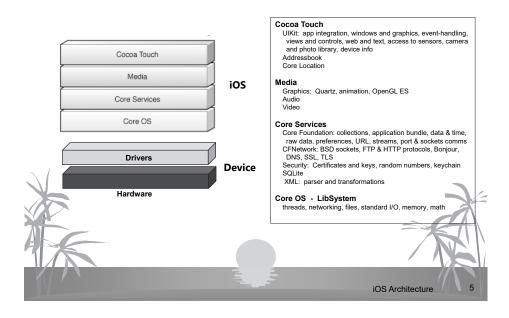
Those API's are layered.

iOS itself can be considered as the intermediary between the applications and the hardware and other components present in the device

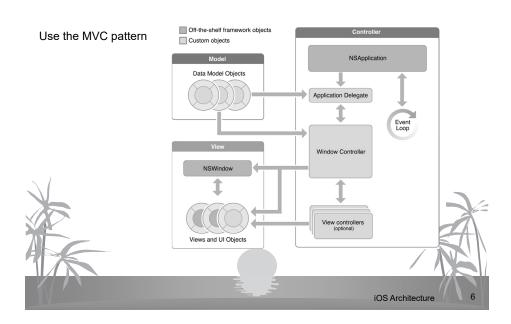
In the first versions only one application can use the screen and interact with the user.

iOS Architecture

Layers of iOS APIs



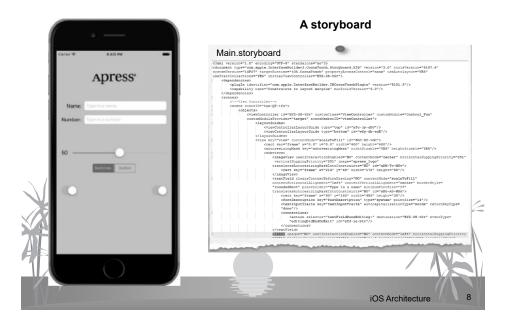
Standard App Structure



Development IDE



Screen specification



The controller

```
//// AppDelegate.swift
// Control Fun

import UIKit
@UIApplicationMain
class AppDelegate: UIResponder, UIApplicationDelegate {
    var window: UIWindow?

func application(application: UIApplication, didFinishLaunchingWithOptions launchOptions: [NSObject: AnyObject]?)

>> Bool {
    // Override point for customization after application launch.
    return true }
    func applicationWillResignActive(application: UIApplication) {
    }
    func applicationDidEnterBackground(application: UIApplication) {
        func applicationDidBecomeActive(application: UIApplication) {
        func applicationDidBecomeActive(application: UIApplication) {
        func applicationDidBecomeActive(application: UIApplication) {
        func applicationWillTerminate(application: UIApplication) {
        func applicationWillTerminate(application: UIApplication) {
        func applicationDidBecomeActive(application: UIApplication: UIApplicatio
```

The ViewController