

Tools for PhoneGap Developers

Eclipse + Android SDK, VS + Windows Phone SDK

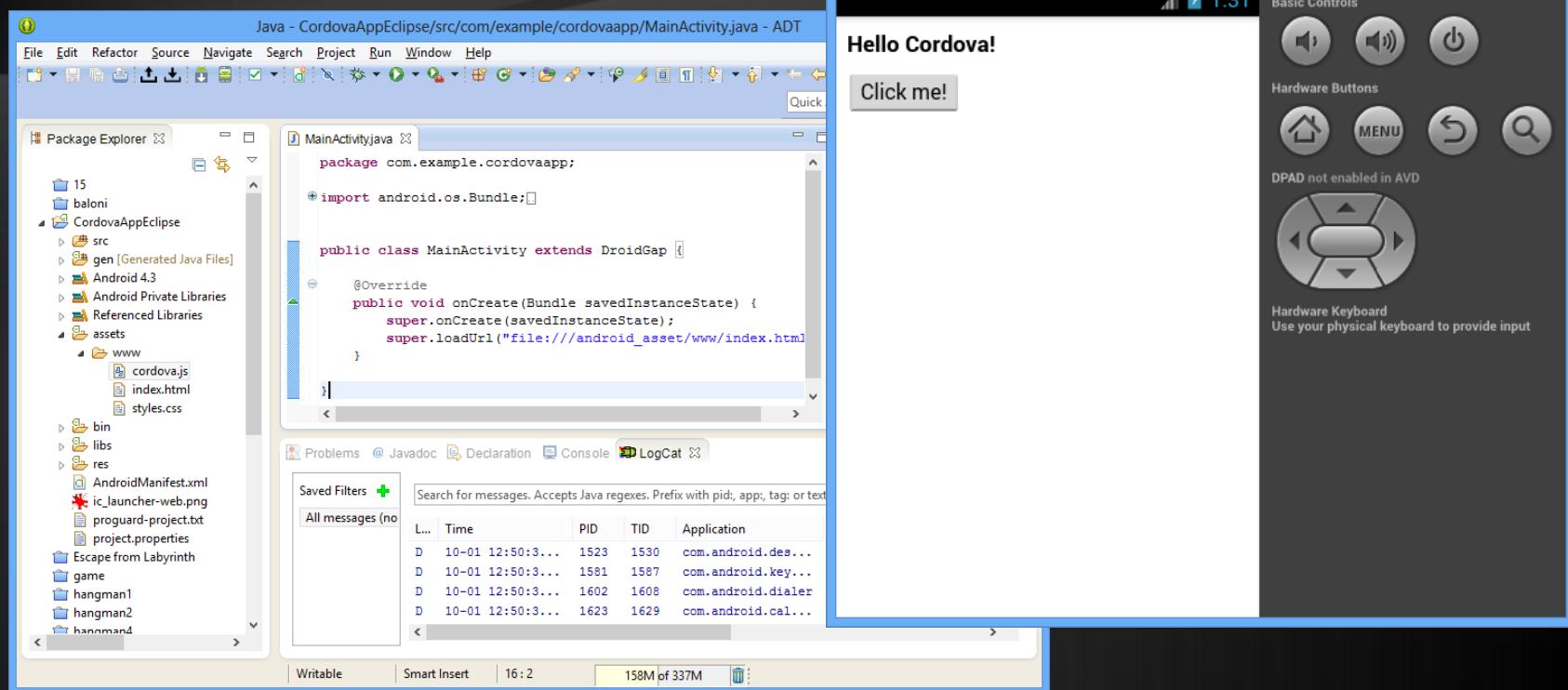
Hybrid Mobile Applications
Telerik Software Academy
<http://academy.telerik.com>



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PhoneGap in Android SDK

Eclipse + Android SDK + Android Emulator +
Android Development Tools (ADT) + Cordova

Installing Android SDK + ADT

1. Install Java (JRE 7) – <http://java.com>
2. Install Eclipse + Android Developer Tools (ADT) + Android SDK
 - <http://developer.android.com/sdk/>
3. Android SDK Manager
 - Download and install system images
4. Android Virtual Device Manager
 - Create new Android Virtual Device (AVD)
5. Install "Eclipse Web Developer Tools" plug-in

Setting Up Android Development Environment

- ◆ To develop for Android, the coder needs Java development things
 - ◆ Java Runtime Environment
 - ◆ Runs Java apps
 - ◆ Java Development Kit
 - ◆ To develop Java apps
 - ◆ Android Software Development Kit to develop Android apps
 - ◆ <http://developer.android.com/sdk/index.html>
 - ◆ Tools for development
 - ◆ Eclipse, Android Studio, NetBeans

Setting up: Installing Java

- ◆ **Installing the Java Runtime Environment (JRE)** allows the PC to run Java apps
 - ◆ Includes the Java Virtual Machine (JVM)
 - ◆ Download from <https://www.java.com/en/download/>
- ◆ **Install the Java Development Kit (JDK)**
 - ◆ Builds Java code into apps
 - ◆ Download from
<http://www.oracle.com/.../java/downloads/index.html>
 - ◆ Needs to be added to the PATH
 - ◆ Adding JAVA_HOME environment variable helps a lot

Installing Java

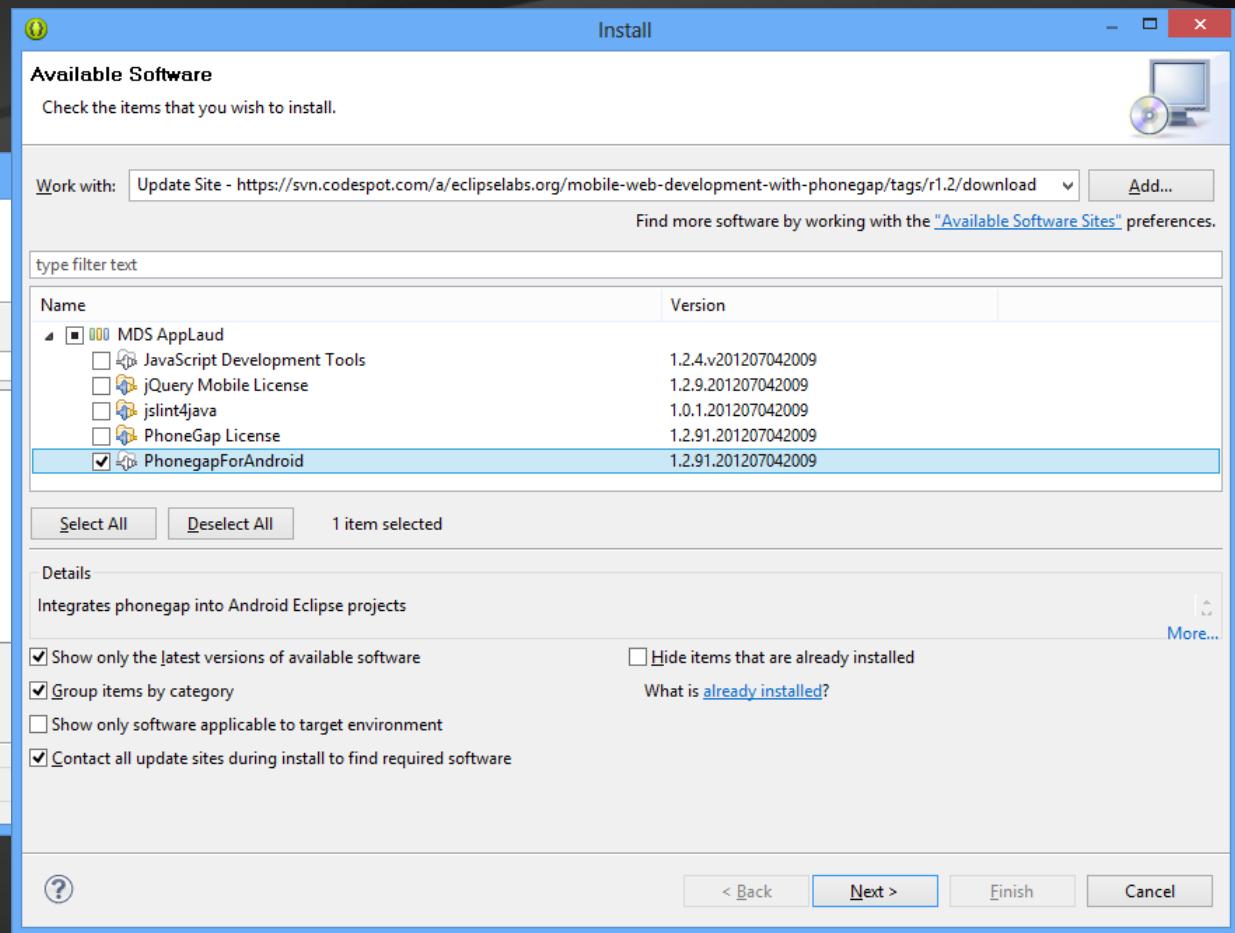
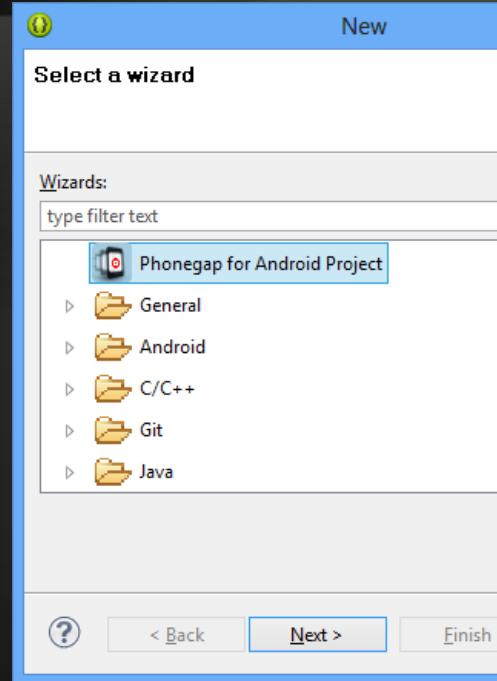
Live Demo

Setting up: Installing Android SDK

- ◆ The Android SDK is used to develop apps for Android
 - ◆ Can be downloaded separately from
<http://developer.android.com/sdk/index.html>
 - ◆ And then manually install Eclipse and set it up yourself (not good)
 - ◆ Can be downloaded with a setup Eclipse for Android development – Android developer Tools
 - ◆ Can be downloaded with Android Studio
 - ◆ Adding to PATH and a environment variable ANDROID_SDK_HOME can be helpful

Installing Android SDK

LiveDemo

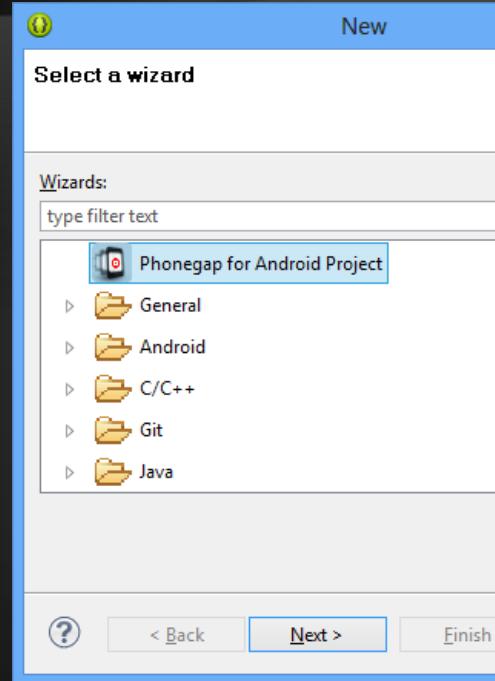


The AppLaud Eclipse Plug-in

PhoneGap for Android Made Easy

AppLaud Eclipse Plug-in

- ◆ The AppLaud Eclipse Plug-in simplifies the PhoneGap development in Eclipse
 - ◆ Install through Eclipse → Help → Install New Software →
<https://svn.codespot.com/a/eclipselabs.org/mobile-web-development-with-phonegap/tags/r1.2/download>
 - ◆ Once installed, the AppLaud plugin adds New → PhoneGap for Android Project



Available Software
Check the items that you wish to install.

Work with: Update Site - <https://svn.codespot.com/a/eclipselabs.org/mobile-web-development-with-phonegap/tags/r1.2/download> Add...
Find more software by working with the "Available Software Sites" preferences.

type filter text

Name	Version
MDS AppLaud	1.2.4.v201207042009
<input checked="" type="checkbox"/> JavaScript Development Tools	1.2.9.201207042009
<input type="checkbox"/> jQuery Mobile License	1.0.1.201207042009
<input type="checkbox"/> jslint4java	1.2.91.201207042009
<input type="checkbox"/> PhoneGap License	1.2.91.201207042009
<input checked="" type="checkbox"/> PhonegapForAndroid	1.2.91.201207042009

Select All Deselect All 1 item selected

Details
Integrates phonegap into Android Eclipse projects

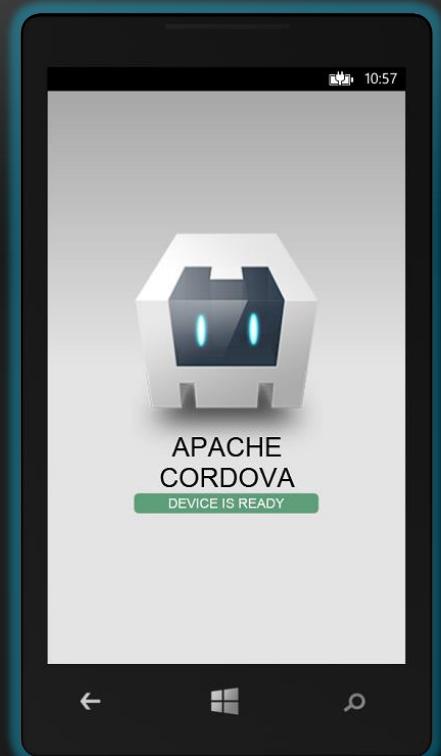
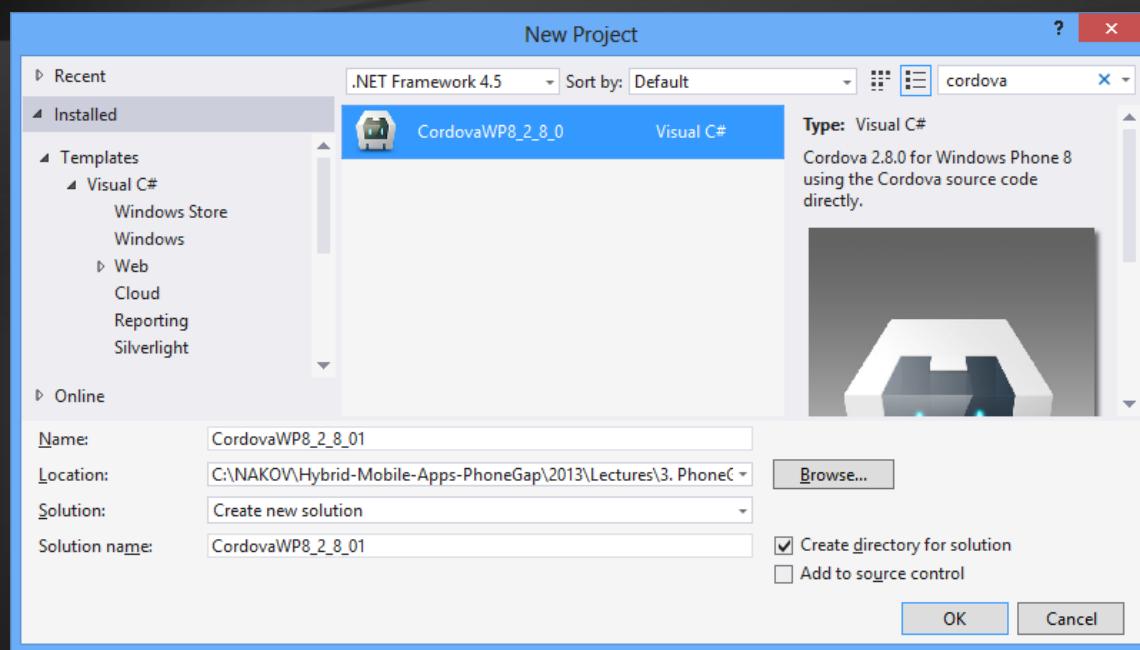
Show only the latest versions of available software Hide items that are already installed
 Group items by category
 What is [already installed](#)?
 Show only software applicable to target environment
 Contact all update sites during install to find required software

More...

< Back Next > Finish Cancel

The AppLaud Eclipse Plug-in

Live Demo



PhoneGap in Visual Studio

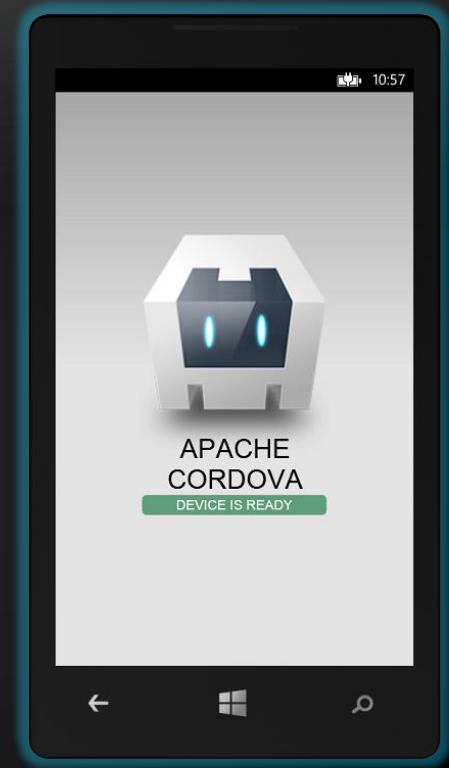
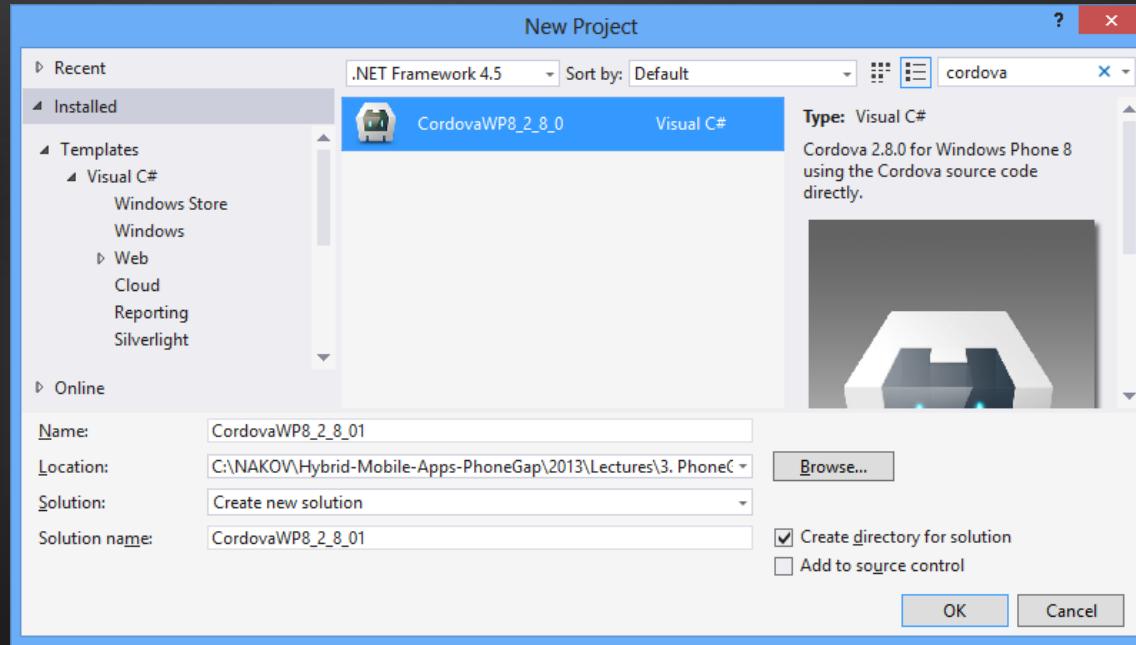
Visual Studio + Windows Phone SDK +
Windows Phone Emulator + Cordova

1. Install Windows Phone SDK

- <http://dev.windowsphone.com/downloadsdk>
- Windows Phone SDK 8.0 is comes built-in Visual Studio 2013

2. Install the PhoneGap template for Visual Studio for WP8

- Download <https://github.com/phonegap/phonegap/archive/2.8.1.zip>
- Copy lib\windows-phone-8\CordovaWP8_2_8_0.zip to C:\Users\<user>\Documents\Visual Studio 2013\Templates\ProjectTemplates



PhoneGap in Visual Studio

Live Demo



PhoneGap in iOS

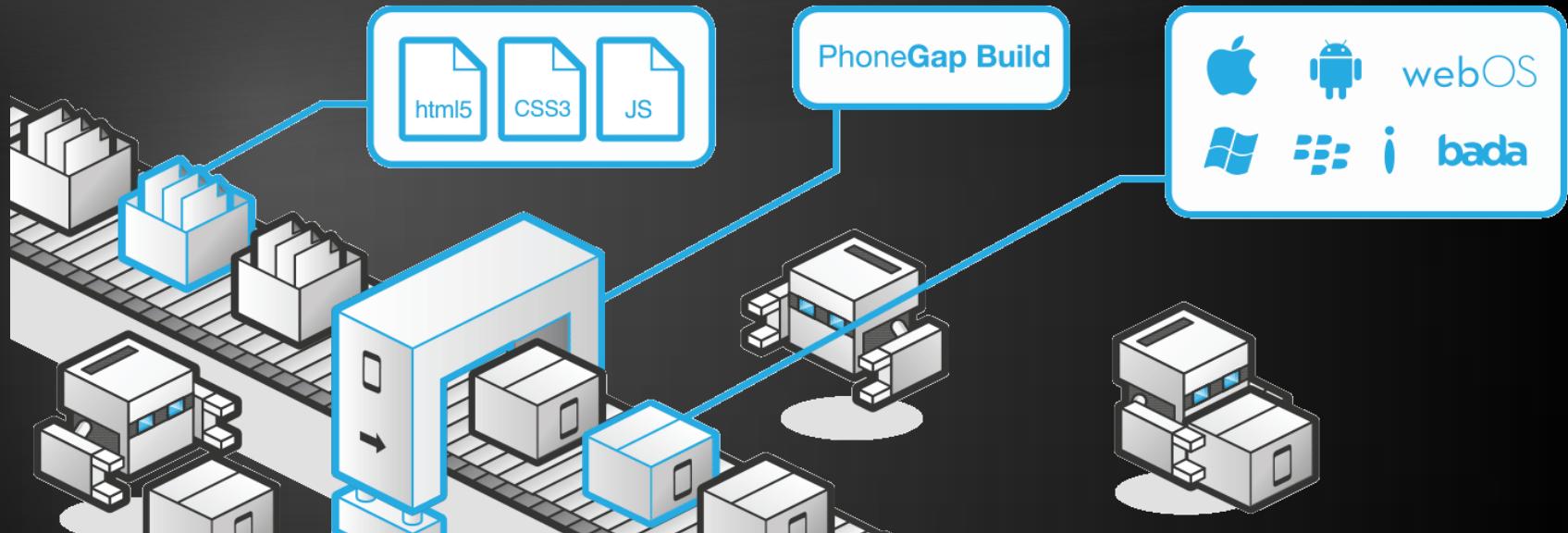
iOS + Xcode + iPhone Simulator + Cordova

Run PhoneGap in iOS

1. Install Xcode
2. Install Cordova
3. Create new Cordova app
 - Use the script `lib/ios/bin/crate`
4. Open the generated Xcode project
 - E.g. `HelloCordova.xcodeproj`
5. Run the Xcode project in the iOS Simulator

* Full guidelines available at:

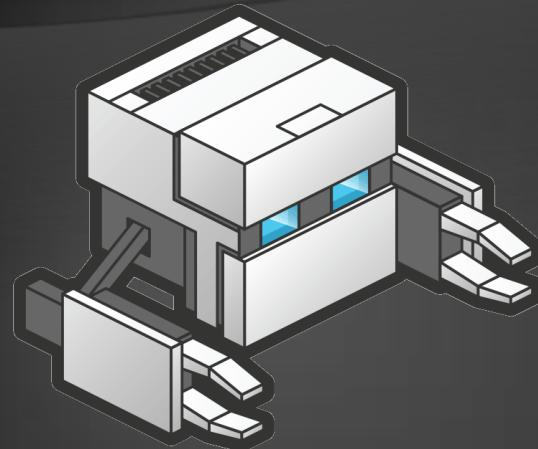
http://docs.phonegap.com/en/3.0.0/guide_platforms_ios_index.md.html



PhoneGap Build

Cloud-based Build Service for Multiple Platforms

- ◆ PhoneGap Build is a cloud service that builds your Cordova apps for different platforms
 - ◆ iOS, Android, Windows Phone, Win8, BlackBerry, Symbian, etc.
1. Register at <https://build.phonegap.com>
 2. Upload your www folder in a ZIP archive
 3. Press the [Rebuild all] button
 4. Scan the QR code to install the app on your Android phone / download the binary file



PhoneGap Build

Live Demo

Adobe PhoneGap Build

<https://build.phonegap.com/apps/576927/builds>

Bd Apps Plugins Docs Blog FAQ Support Adobe

We now support [Platform Build Selections](#) and [additional config.xml preferences](#).

Nakov App
no description

Feedback

Install

Update code Rebuild all

Builds Plugins Collaborators Settings

App ID	Version	PhoneGap	Owned by	Last built (3)	Source
576927	n_a	2.9.0	github@nakov.com	5 minutes	zip package

iOS No key selected Rebuild Error

Android No key selected Rebuild apk

Windows Rebuild xap

Tools for PhoneGap Developers

Questions?

1. Configure and install the PhoneGap for Android development environment
 - Install and configure Eclipse + Android SDK
 - Configure the Android Virtual Device Manager
 - Install "Eclipse Web Developer Tools" and "AppLaud"
 - Create a sample PhoneGap application and run it in the Android Emulator
2. Configure and install PhoneGap for WP development environment: Visual Studio + Windows Phone SDK + PhoneGap templates. Create and run a sample app.
3. Build a sample app using PhoneGap Build. Test it on your phone.

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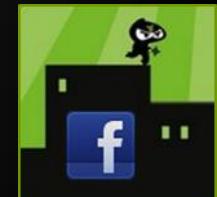
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