



Social Media Apps Programming

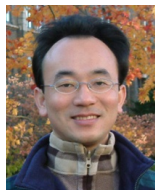
Create Hybrid Apps with PhoneGap

1051SMAP07

TLMXM1A (8648) (M2143) (Fall 2016)

(MIS MBA) (2 Credits, Elective) [Full English Course]

Wed 8,9 (15:10-17:00) B310



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Department of Information Management

Tamkang University

<http://mail.tku.edu.tw/myday>

2016-10-26



Course Schedule (1/3)

Week	Date	Subject/Topics
1	2016/09/14	Course Orientation and Introduction to Social Media and Mobile Apps Programming
2	2016/09/21	Introduction to Android / iOS Apps Programming
3	2016/09/28	Developing Android Native Apps with Java (Eclipse) (MIT App Inventor)
4	2016/10/05	Developing iPhone / iPad Native Apps with Swift (XCode)
5	2016/10/12	Mobile Apps using HTML5/CSS3/JavaScript
6	2016/10/19	jQuery Mobile

Course Schedule (2/3)

Week	Date	Subject/Topics
7	2016/10/26	Create Hybrid Apps with PhoneGap
8	2016/11/02	jQuery Mobile/PhoneGap
9	2016/11/09	jQuery Mobile/PhoneGap
10	2016/11/16	Midterm Exam Week (Midterm Project Report)
11	2016/11/23	Case Study on Social Media Apps Programming and Marketing in Google Play and App Store
12	2016/11/30	Invited Speaker: Prof. Yoshinobu Kano, Associate Professor, Faculty of Informatics, Shizuoka University

Course Schedule (3/3)

Week	Date	Subject/Topics
13	2016/12/07	Google Cloud Platform
14	2016/12/14	Google App Engine and Google Map API
15	2016/12/21	Facebook API (Facebook JavaScript SDK) (Integrate Facebook with iOS/Android Apps)
16	2016/12/28	Twitter API
17	2017/01/04	Final Project Presentation
18	2017/01/11	Final Exam Week (Final Project Presentation)

Android /iOS Apps Programming

Native Apps

Hybrid Apps

Mobile Web Apps



App Development Comparison



Native Apps



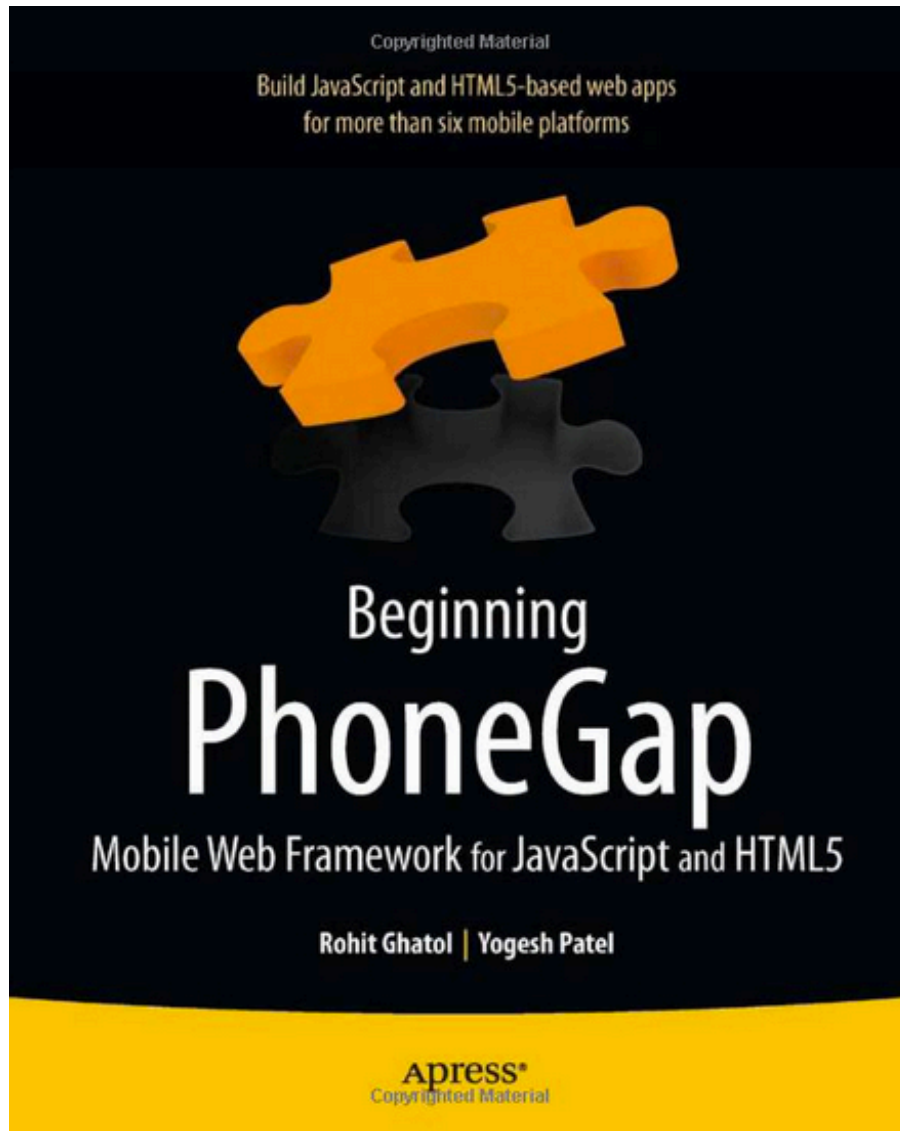
Hybrid Apps



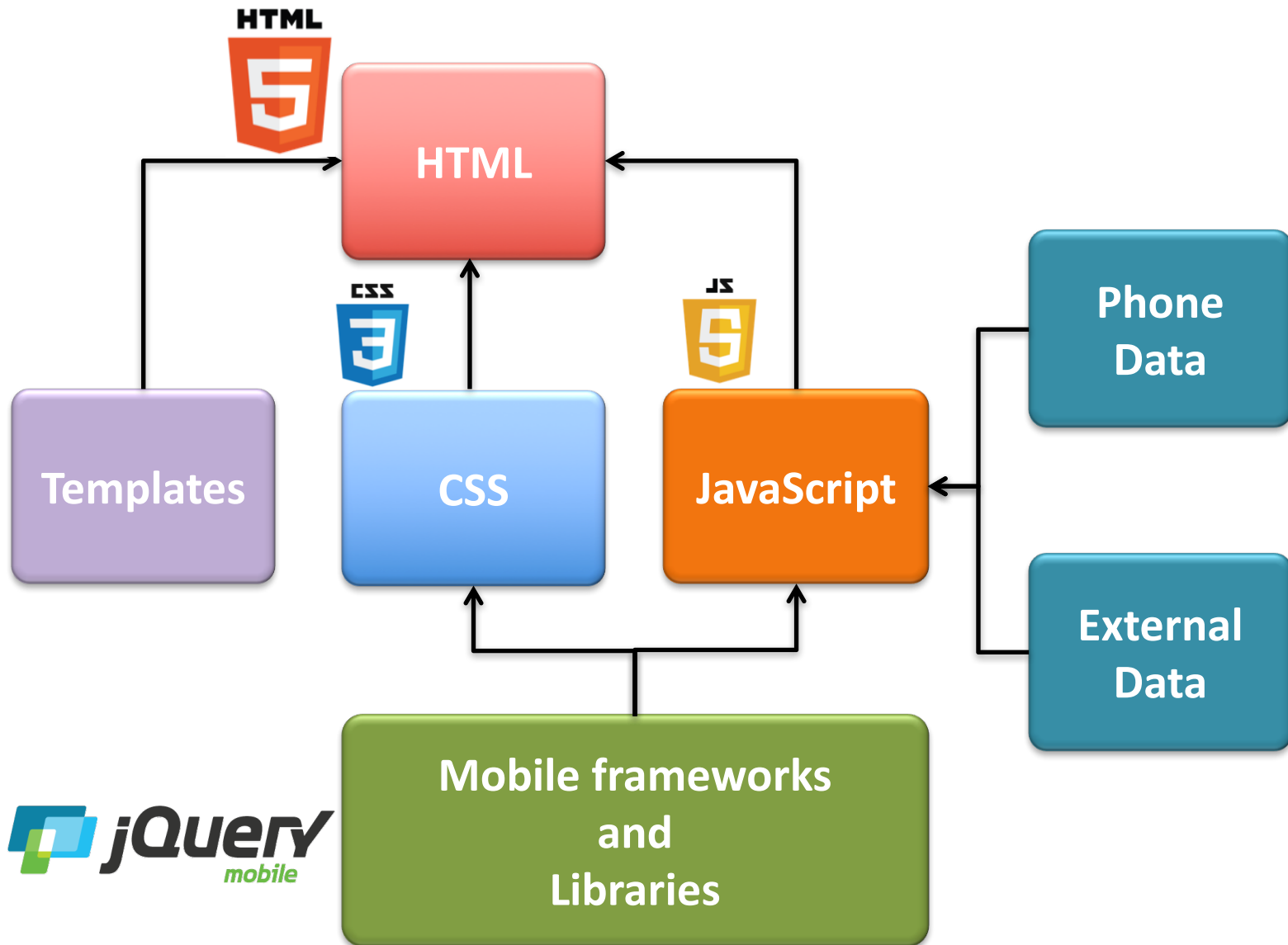
Web Apps



Beginning PhoneGap: Mobile Web Framework for JavaScript and HTML5, Rohit Ghatol & Yogesh Patel, Apress, 2012

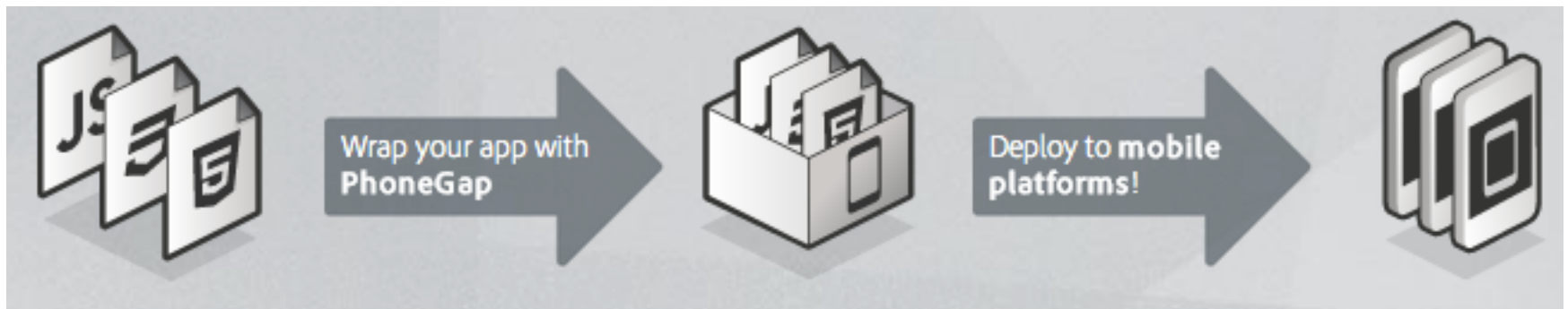


Mobile Web App



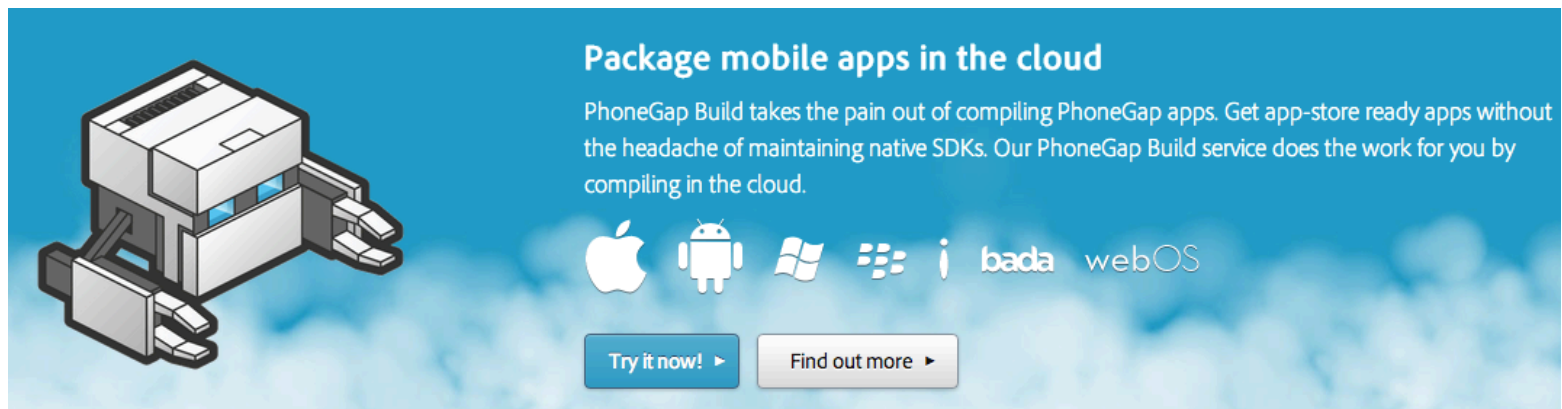
PhoneGap

- PhoneGap is a free and open source framework that allows you to **create mobile apps** using standardized web APIs for the platforms you care about.



PhoneGap Build

- Package mobile apps in the cloud
 - **PhoneGap Build** takes the pain out of compiling PhoneGap apps.
 - Get app-store ready apps without the headache of maintaining **native SDKs**.
 - **PhoneGap Build** service does the work for you by compiling in the cloud.



Package mobile apps in the cloud

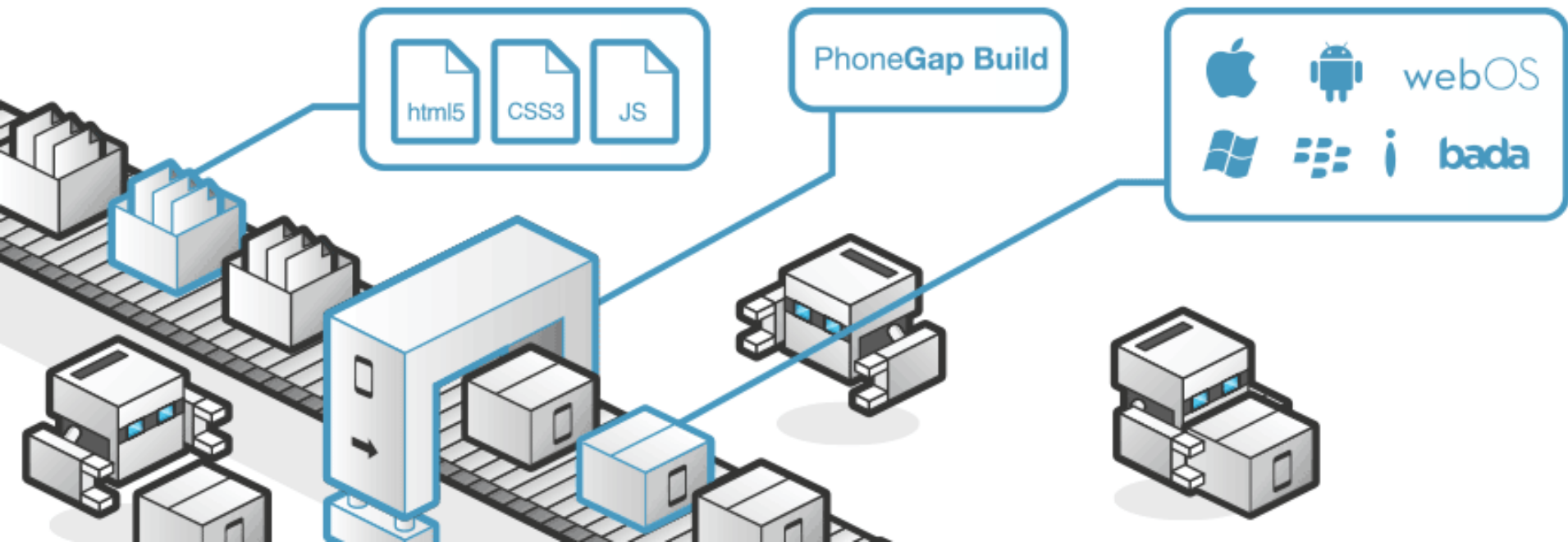
PhoneGap Build takes the pain out of compiling PhoneGap apps. Get app-store ready apps without the headache of maintaining native SDKs. Our PhoneGap Build service does the work for you by compiling in the cloud.

Apple Android Windows BlackBerry i bada webOS

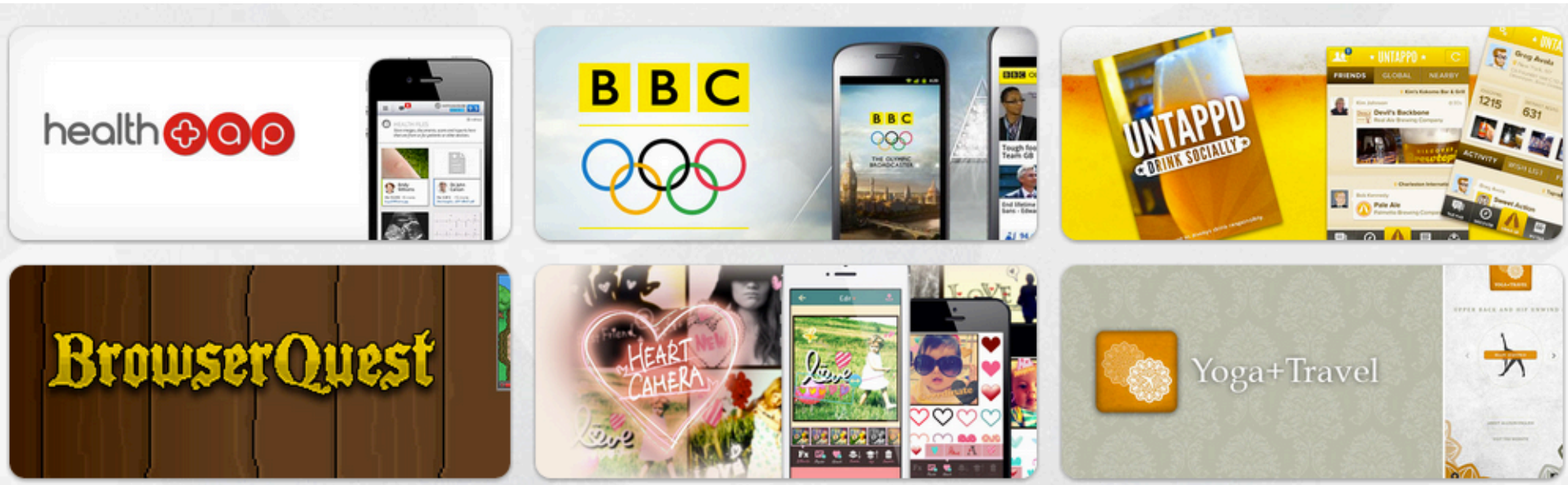
Try it now! ▶ Find out more ▶

The advertisement features a blue background with a white server rack icon on the left. The text is white and blue. At the bottom, there are two buttons: a blue 'Try it now!' button and a white 'Find out more' button with a right-pointing arrow. The logos for various mobile operating systems are displayed in a row.

PhoneGap Build



Apps Created with PhoneGap



Apps Created with PhoneGap BBC Olympics



Adobe® PhoneGap™

- Write a **PhoneGap** app once with **HTML** and **JavaScript** and deploy it to any mobile device without losing features of a **native app**.
- Adobe PhoneGap
 - standards-based,
open-source development framework
for building cross-platform mobile apps with
HTML, CSS and JavaScript
for iOS, Android™, Windows® Phone,
webOS, BlackBerry® and more.

PhoneGap

PhoneGap | Home

phonegap.com

PhoneGap About Developer Community Apps Support

Install

Easily create apps using the web technologies you know and love:
HTML, CSS, and JavaScript

PhoneGap is a free and open source framework that allows you to create mobile apps using standardized web APIs for the platforms you care about.

Install PhoneGap ▶ Getting Started Guides ▶

Watch Intro

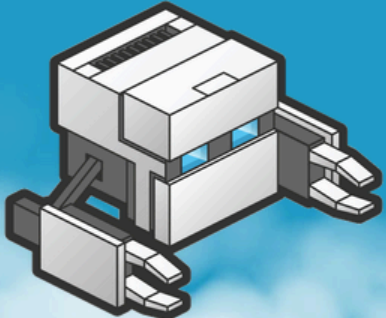
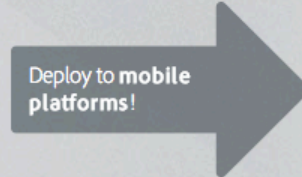
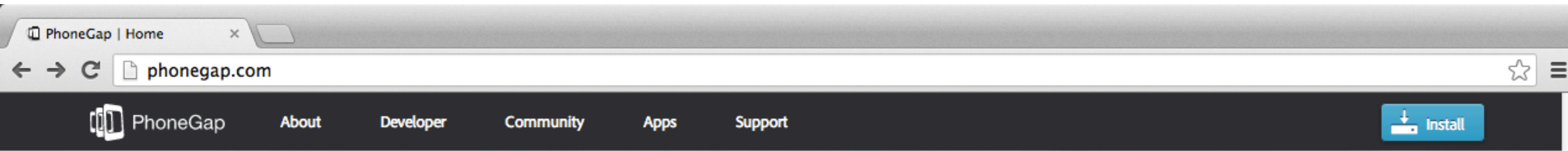
JS CSS HTML5

Wrap your app with PhoneGap

Deploy to mobile platforms!






JS CSS HTML5

PhoneGap Build



Package mobile apps in the cloud

PhoneGap Build takes the pain out of compiling PhoneGap apps. Get app-store ready apps without the headache of maintaining native SDKs. Our PhoneGap Build service does the work for you by compiling in the cloud.

     bada webOS

[Try it now! ▶](#) [Find out more ▶](#)

PhoneGap Build

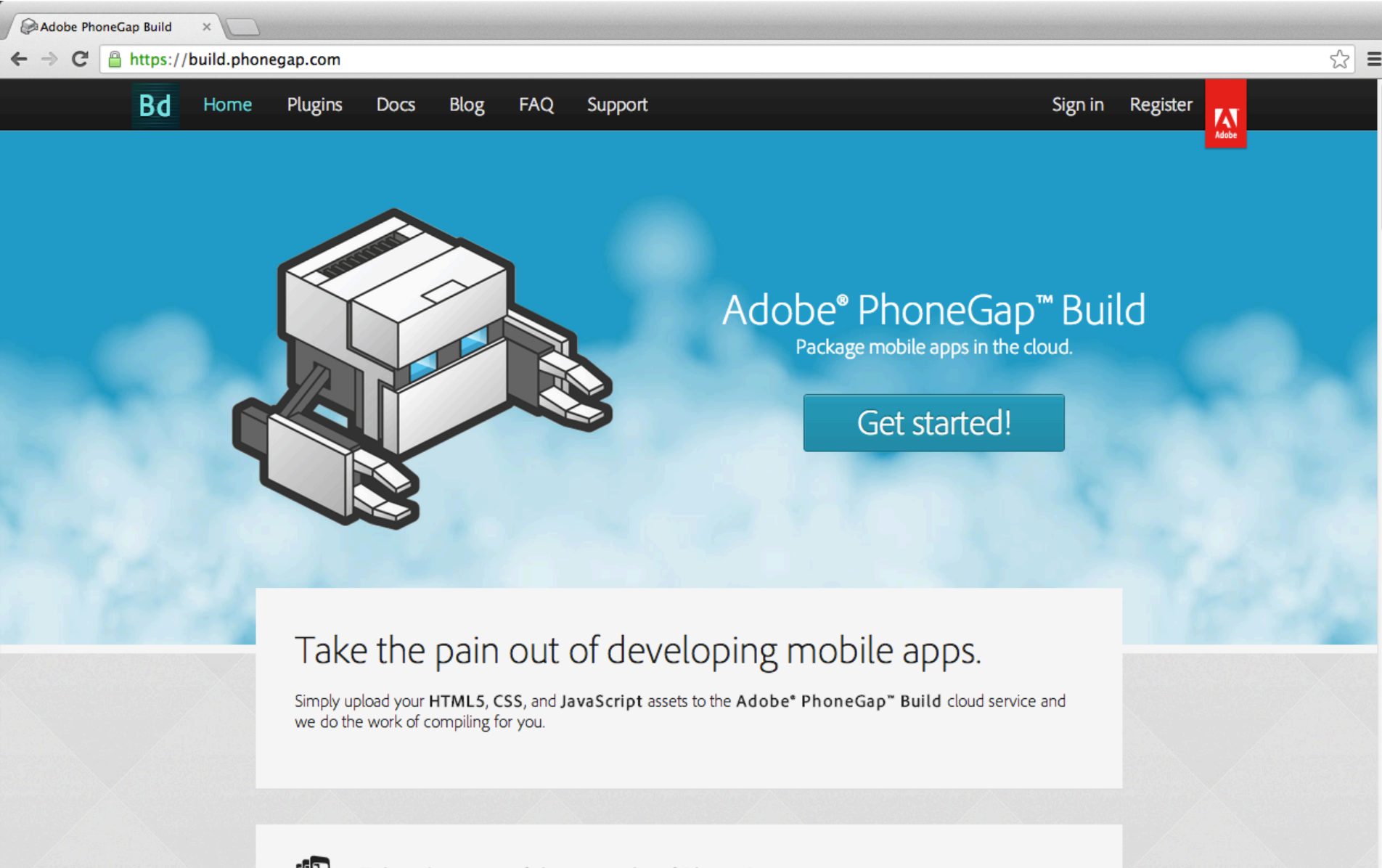


Choose your plan

	Free Plan	Paid Plan	Adobe Creative Cloud Membership ?
open source apps		∞ unlimited must be pulled from a public Github repo	
collaborators		∞ unlimited invite people to your app as either developers or testers	
private apps ?	1	25	
	completely free	starting at \$9.99/mo	sign in with your Adobe ID

<http://phonegap.com/>

PhoneGap Build



The image shows a browser window displaying the Adobe PhoneGap Build website. The browser's address bar shows the URL <https://build.phonegap.com>. The website's navigation bar includes links for Home, Plugins, Docs, Blog, FAQ, and Support, along with Sign in and Register options. The Adobe logo is visible in the top right corner. The main content area features a stylized illustration of a mobile phone with a white and grey design. To the right of the phone, the text reads "Adobe® PhoneGap™ Build" followed by the tagline "Package mobile apps in the cloud." Below this is a prominent teal button labeled "Get started!". A large white box contains the headline "Take the pain out of developing mobile apps." and a sub-headline: "Simply upload your **HTML5**, **CSS**, and **JavaScript** assets to the **Adobe® PhoneGap™ Build** cloud service and we do the work of compiling for you."

<https://build.phonegap.com/>

Get started with PhoneGap Build

- Simply **upload** your web assets -
a ZIP file of **HTML, CSS and JavaScript**,
or a single **index.html** file
- to **PhoneGap Build**
 - Git or SVN repository.
- PhoneGap Build undertake the compilation and packaging
- In minutes, you'll receive the download URLs for all mobile platforms.

PhoneGap Build vs. PhoneGap

- PhoneGap
 - a **mobile application development framework**, based upon the **open source Apache Cordova project**.
 - write an app once with HTML, CSS and JavaScript, and then deploy it to a wide range of mobile devices without losing the features of a **native app**.
- PhoneGap Build
 - a **cloud-based service** built on top of the **PhoneGap framework**.
 - easily build those same mobile apps in the cloud.

Public Apps vs. Private Apps

- Public apps
 - source code hosted in a publicly accessible **GitHub repository**.
- Private apps
 - source code hosted in a **private** (non-publicly accessible) **GitHub repository**
 - uploads a **ZIP file** containing the source code and assets to the PhoneGap Build service.

PhoneGap, jQuery Mobile, jQuery

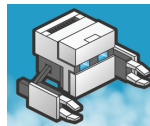


jQuery Mobile
(User Interface)

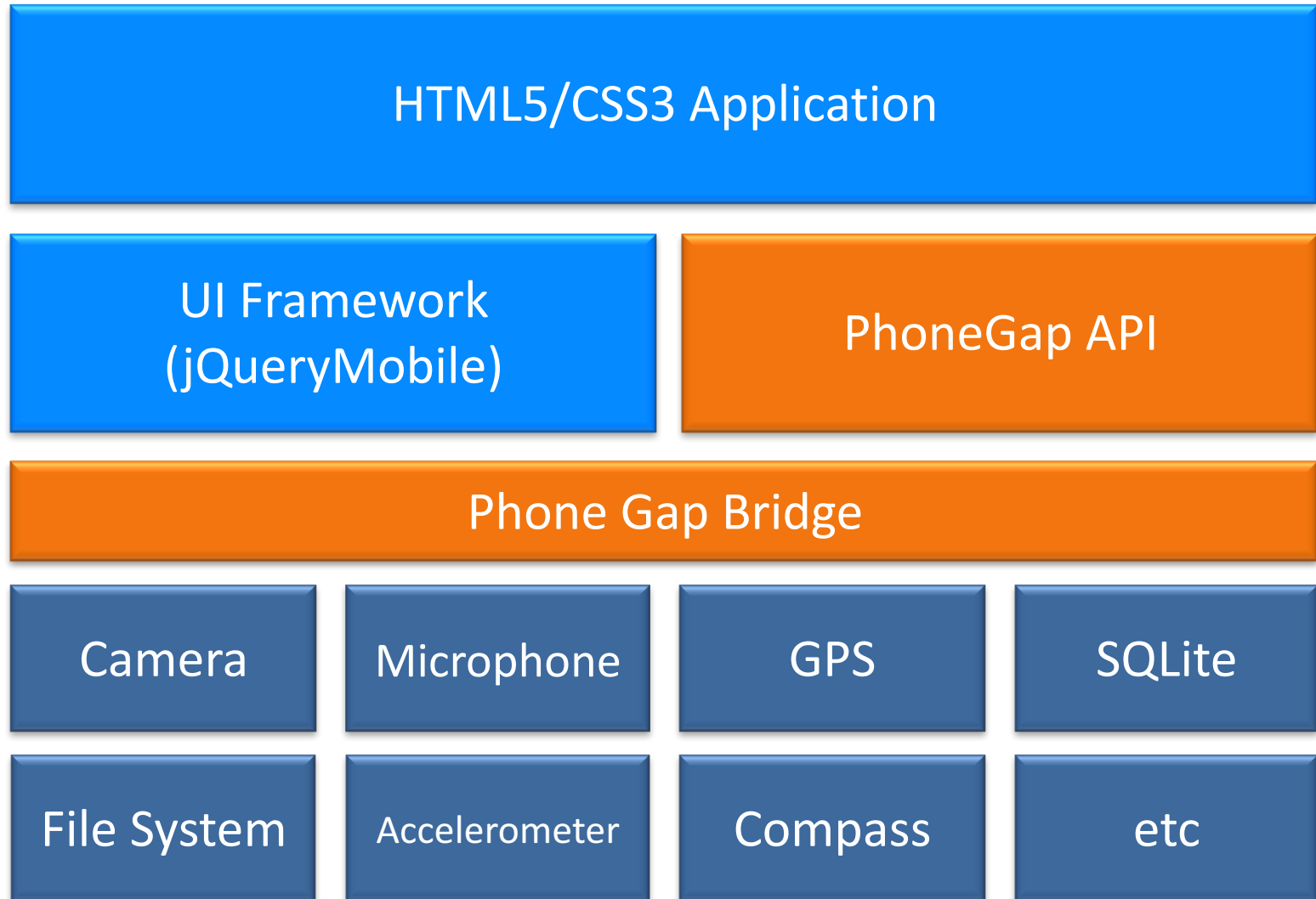


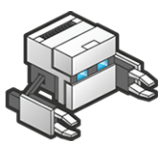
jQuery
(Logic and Computing)

PhoneGap
(Hardware Interface)



PhoneGap App Architecture





Install PhoneGap

The screenshot shows the PhoneGap installation page. A blue banner on the left says "We're Hiring!". The navigation bar includes "PhoneGap", "About", "Developer", "Community", "Apps", and "Enterprise", with an "Install" button highlighted in red. The main content is divided into "Install" and "Usage" sections. The "Install" section contains a red-bordered box with the text "To Install, ensure that you have NodeJS installed, then open your commandline and run the following:" and a terminal snippet box with the command `$ sudo npm install -g phonegap`. Below this is the text "Once installation completes, you can invoke phonegap on command line for further help." The "Usage" section contains a red-bordered terminal snippet box with the commands `$ phonegap create my-app`, `$ cd my-app`, and `$ phonegap run android`. Below this is the text "Learn more at docs.phonegap.com". At the bottom, an "Archives" section shows three versions: "PhoneGap 2.9.1" (Released 05 Nov 2013), "PhoneGap 2.9.0" (Released 26 Jun 2013), and "PhoneGap 2.8.1" (Released 12 Jun 2013). The "PhoneGap 2.9.1" version is highlighted with a red box.

PhoneGap | Install PhoneG x

phonegap.com/install/

PhoneGap About Developer Community Apps Enterprise

Install

To Install, ensure that you have [NodeJS](#) installed, then open your commandline and run the following:

```
$ sudo npm install -g phonegap
```

Once installation completes, you can invoke `phonegap` on command line for further help.

Usage

```
$ phonegap create my-app
$ cd my-app
$ phonegap run android
```

Learn more at docs.phonegap.com

Archives

PhoneGap 2.9.1 Released 05 Nov 2013	PhoneGap 2.9.0 Released 26 Jun 2013	PhoneGap 2.8.1 Released 12 Jun 2013
---	---	---

<http://phonegap.com/install/>



NodeJS

The screenshot shows the Node.js website homepage. At the top, there is a navigation menu with links for HOME, DOWNLOADS, DOCS, COMMUNITY, ABOUT, JOBS, and BLOG. The main content area features a description of Node.js as a platform built on Chrome's JavaScript runtime, followed by the current version (v0.10.33). A prominent green button labeled 'INSTALL' is highlighted with a red rectangle. Below it are buttons for 'DOWNLOADS' and 'API DOCS'. The bottom section includes a 'NODE.JS ON THE ROAD' banner with a 'LEARN MORE' link, and an 'AN EXAMPLE: WEBSERVER' section with a 'FEATURED' sub-section.

nodejs.org/dist/v0.10.33/node-v0.10.33.pkg

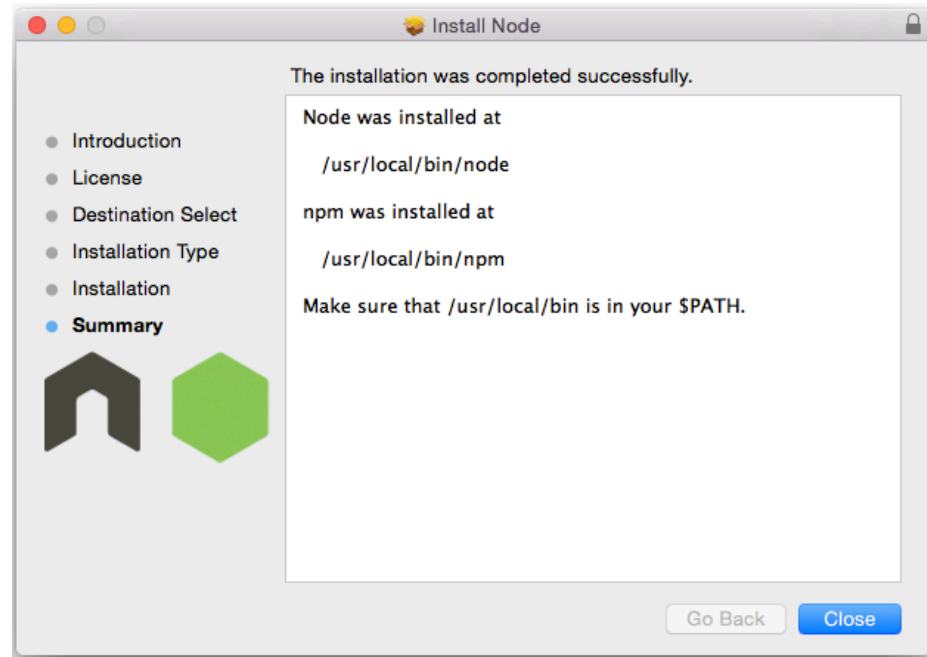
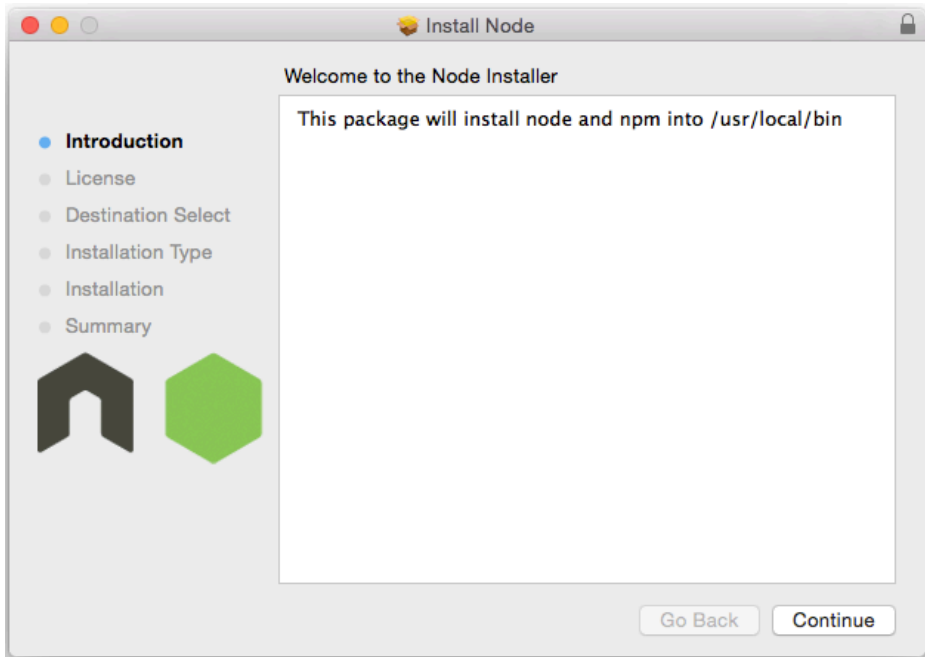
<http://nodejs.org/>

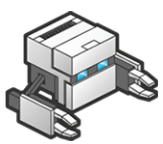
Install NodeJS



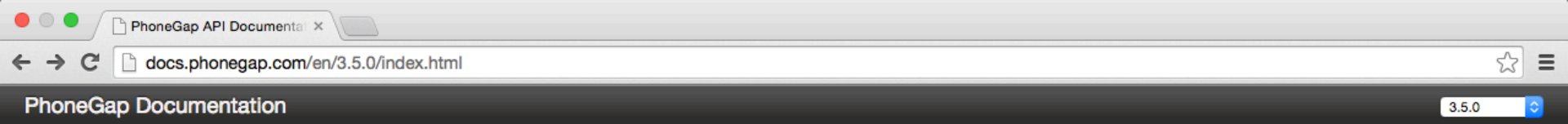
node-v0.10.33.pkg

10.2 MB





PhoneGap API Documentation



Home

Guides

Guides

Overview

Platform Support

The Command-Line Interface

Platform Guides

Using Plugman to Manage Plugins

The config.xml File

Icons and Splash Screens

Embedding WebViews

Plugin Development Guide

Privacy Guide

Security Guide

Whitelist Guide

Storage

Next Steps

Keyword Index

API Reference

Overview

Start here if you are new to Cordova. Includes installation and next steps.

Platform Guides

Set up each platform SDK and update projects.

Icons and Splash Screens

Customize your app's displaying images.

Privacy Guide

Learn about important mobile privacy issues.

Storage

An overview of native storage options.

Platform Support

Compatibility table for all major features.

Using Plugman to Manage Plugins

Manage plugins without the CLI when using the platform-centered workflow.

Embedding WebViews

Implement the Cordova WebView in your native project.

Security Guide

Information and tips for building a secure application.

Next Steps

A look at topics that new Cordova developers will encounter.

The Command-Line Interface

Create, build, and deploy from the command-line.

The config.xml File

Customize your app's features.

Plugin Development Guide

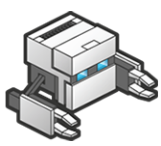
Develop your own plugin.

Whitelist Guide

Grant an application access to external resources.

Keyword Index

Full index of the documentation.



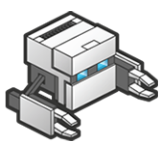
PhoneGape Install

\$ `sudo npm install -g phonegap`

```
npm http 304 https://registry.npmjs.org/bytes/0.1.0
npm http 304 https://registry.npmjs.org/qs/0.5.1
npm http 304 https://registry.npmjs.org/formidable/1.0.11
npm http GET https://registry.npmjs.org/abbrev
npm http GET https://registry.npmjs.org/optimist
npm http GET https://registry.npmjs.org/underscore/1.2.1
npm http GET https://registry.npmjs.org/inl
npm http GET https://registry.npmjs.org/deep-extend
npm http GET https://registry.npmjs.org/fstream
npm http GET https://registry.npmjs.org/commander
npm http GET https://registry.npmjs.org/pegjs/0.6.2
npm http GET https://registry.npmjs.org/node-uuid/1.3.3
npm http 304 https://registry.npmjs.org/underscore/1.2.1
npm http 304 https://registry.npmjs.org/abbrev
npm http 304 https://registry.npmjs.org/inl
npm http 304 https://registry.npmjs.org/deep-extend
npm http 304 https://registry.npmjs.org/optimist
npm http 304 https://registry.npmjs.org/fstream
npm http 304 https://registry.npmjs.org/commander
npm http 304 https://registry.npmjs.org/node-uuid/1.3.3
npm http 304 https://registry.npmjs.org/pegjs/0.6.2
npm http GET https://registry.npmjs.org/wordwrap
npm http GET https://registry.npmjs.org/keypress
npm http GET https://registry.npmjs.org/rimraf
npm http GET https://registry.npmjs.org/inherits
npm http GET https://registry.npmjs.org/mkdirp
npm http GET https://registry.npmjs.org/graceful-fs
npm http 304 https://registry.npmjs.org/wordwrap
npm http 304 https://registry.npmjs.org/keypress
npm http 304 https://registry.npmjs.org/rimraf
npm http 304 https://registry.npmjs.org/inherits
npm http 304 https://registry.npmjs.org/mkdirp
npm http 304 https://registry.npmjs.org/graceful-fs
/usr/local/bin/phonegap -> /usr/local/lib/node_modules/phonegap.js
phonegap@3.1.0-0.15.0 /usr/local/lib/node_modules/phonegap
├── colors@0.6.0-1
├── pluralize@0.0.4
├── semver@1.1.0
├── qrcode-terminal@0.9.4
├── shelljs@0.1.4
├── optimist@0.6.0 (minimist@0.0.5, wordwrap@0.0.2)
├── node-static@0.7.0 (colors@0.6.2, mime@1.2.11)
├── prompt@0.2.11 (revalidator@0.1.5, pkginfo@0.3.0, read@1.0.5, winston@0.6.2,
util@0.2.0)
├── phonegap-build@0.8.4 (qrcode-terminal@0.8.0, shelljs@0.0.9, optimist@0.3.7,
phonegap-build-api@0.3.3)
├── cordova@3.1.0-0.1.0 (ncallbacks@1.0.0, colors@0.6.2, open@0.0.3, mime@1.2.11
, follow-redirects@0.0.3, shelljs@0.1.2, xcode@0.5.1, tar@0.1.18, elementtree@0.
1.5, glob@3.2.7, prompt@0.2.7, express@3.0.0, request@2.22.0, npm@1.3.14, plist@
0.4.3, ripple-emulator@0.9.18, plugman@0.13.0)
pc16:development imydays
```



npm (Node Package Manager)



PhoneGape Usage

```
$ phonegap create myapp
```

```
[phonegap] missing library phonegap/www/3.1.0
```

```
[phonegap] downloading
```

```
https://github.com/phonegap/phonegap-app-hello-  
world/archive/3.1.0.tar.gz...
```

```
[phonegap] created project at  
/Users/imyday/Development/myapp
```

```
$ cd myapp
```

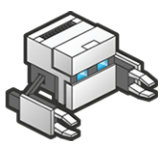
```
$ phonegap run android
```

```
[phonegap] detecting Android SDK environment...
```

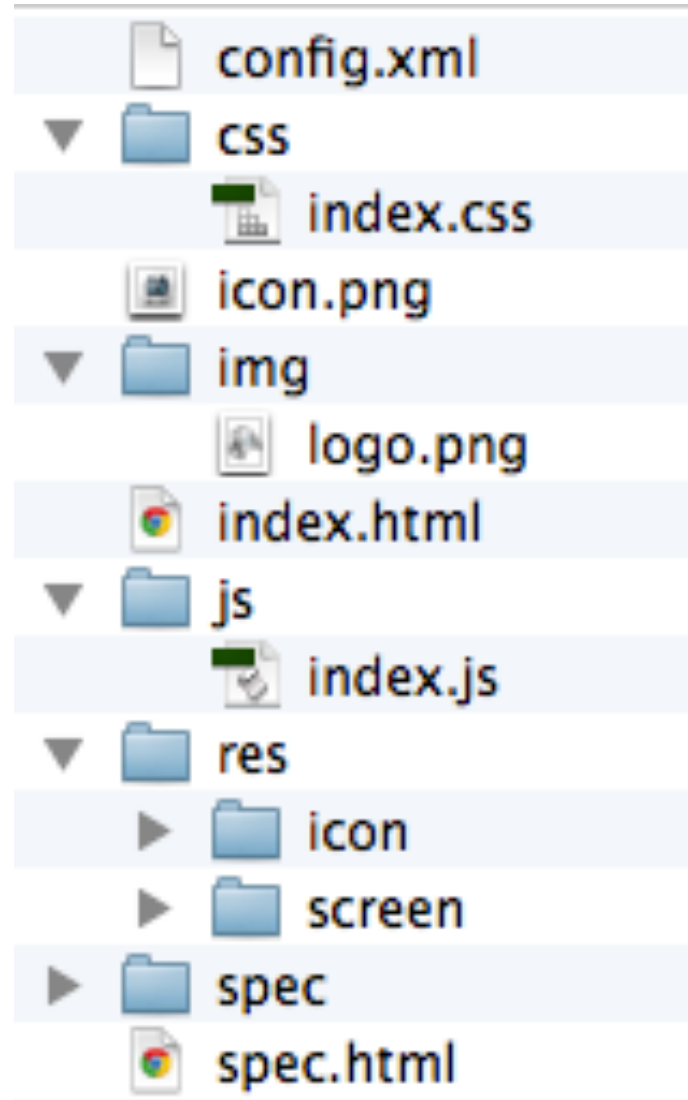
```
[phonegap] using the remote environment
```

```
[phonegap] compressing the app...
```

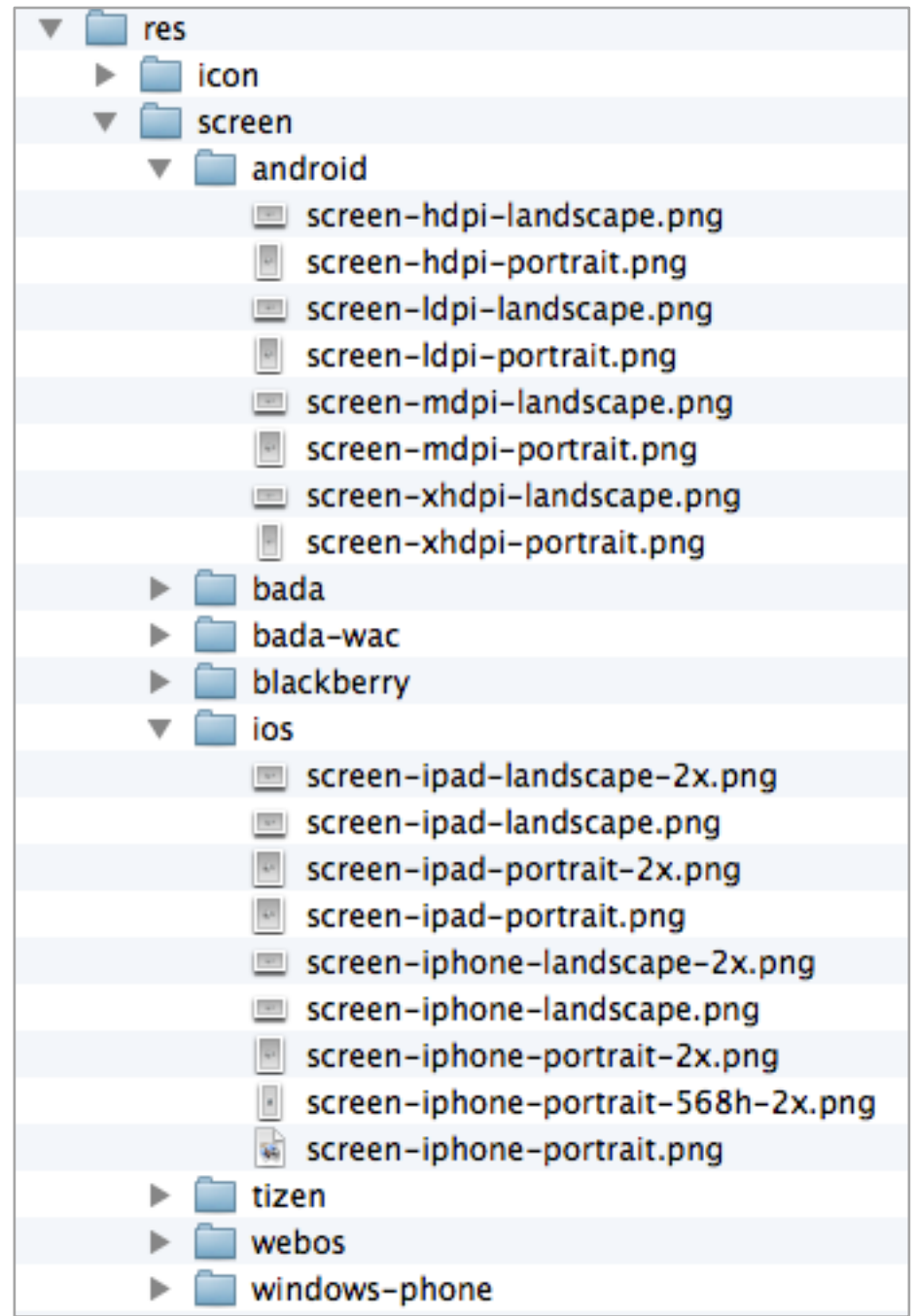
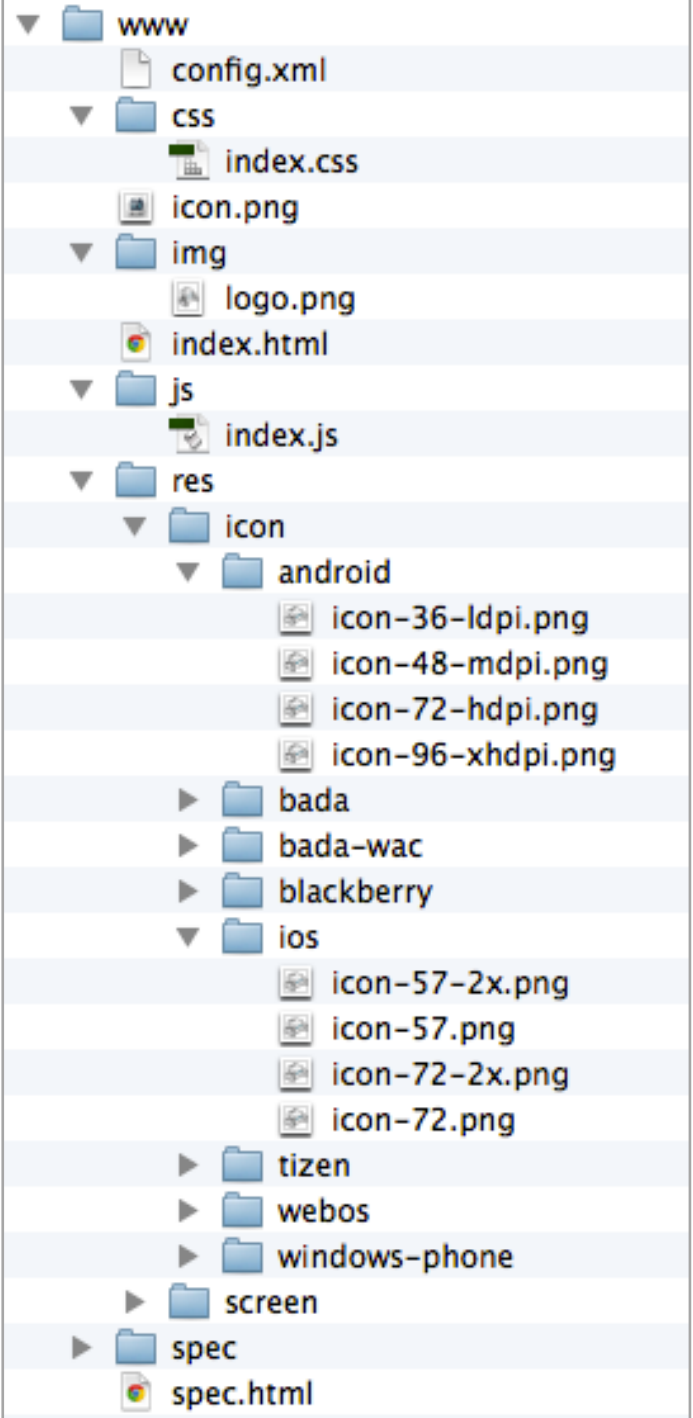
```
[phonegap] uploading the app...
```

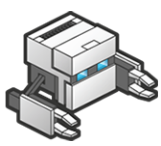


myapp/www/



myapp/
www/





PhoneGap config.xml

```
<?xml version='1.0' encoding='utf-8'?>
<widget id="com.phonegap.helloworld"
version="1.0.0" xmlns="http://www.w3.org/
ns/widgets" xmlns:gap="http://phonegap.com/
ns/1.0">
  <name>HelloWorld</name>
  <description>
    Hello World sample application that
    responds to the deviceready event.
  </description>
  <author email="support@phonegap.com"
href="http://phonegap.com">
    PhoneGap Team
  </author>
  <feature name="http://api.phonegap.com/
1.0/device" />
```

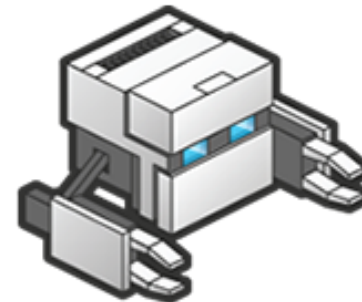
Name	config.xml
Kind	XML Document
Size	4 KB

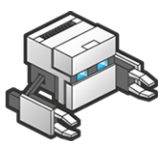

```

<?xml version='1.0' encoding='utf-8'?>
<widget id="com.phonegap.helloworld" version="1.0.0" xmlns="http://www.w3.org/ns/widgets" xmlns:gap="http://phonegap.com/ns/1.0">
  <name>HelloWorld</name>
  <description>
    Hello World sample application that responds to the deviceready event.
  </description>
  <author email="support@phonegap.com" href="http://phonegap.com">
    PhoneGap Team
  </author>
  <feature name="http://api.phonegap.com/1.0/device" />
  <preference name="permissions" value="none" />
  <preference name="orientation" value="default" />
  <preference name="target-device" value="universal" />
  <preference name="fullscreen" value="true" />
  <preference name="webviewbounce" value="true" />
  <preference name="prerendered-icon" value="true" />
  <preference name="stay-in-webview" value="false" />
  <preference name="ios-statusbarstyle" value="black-opaque" />
  <preference name="detect-data-types" value="true" />
  <preference name="exit-on-suspend" value="false" />
  <preference name="show-splash-screen-spinner" value="true" />
  <preference name="auto-hide-splash-screen" value="true" />
  <preference name="disable-cursor" value="false" />
  <preference name="android-minSdkVersion" value="7" />
  <preference name="android-installLocation" value="auto" />
  <icon src="icon.png" />
  <icon gap:density="ldpi" gap:platform="android" src="res/icon/android/icon-36-ldpi.png" />
  <icon gap:density="mdpi" gap:platform="android" src="res/icon/android/icon-48-mdpi.png" />
  <icon gap:density="hdpi" gap:platform="android" src="res/icon/android/icon-72-hdpi.png" />
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  <icon gap:platform="ios" height="72" src="res/icon/ios/icon-72.png" width="72" />
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  <icon gap:platform="ios" height="144" src="res/icon/ios/icon-72-2x.png" width="144" />
  <icon gap:platform="webos" src="res/icon/webos/icon-64.png" />
  <icon gap:platform="winphone" src="res/icon/windows-phone/icon-48.png" />
  <icon gap:platform="winphone" gap:role="background" src="res/icon/windows-phone/icon-173.png" />
  <gap:splash gap:density="ldpi" gap:platform="android" src="res/screen/android/screen-ldpi-portrait.png" />
  <gap:splash gap:density="mdpi" gap:platform="android" src="res/screen/android/screen-mdpi-portrait.png" />
  <gap:splash gap:density="hdpi" gap:platform="android" src="res/screen/android/screen-hdpi-portrait.png" />
  <gap:splash gap:density="xhdpi" gap:platform="android" src="res/screen/android/screen-xhdpi-portrait.png" />
  <gap:splash gap:platform="blackberry" src="res/screen/blackberry/screen-225.png" />
  <gap:splash gap:platform="ios" height="480" src="res/screen/ios/screen-iphone-portrait.png" width="320" />
  <gap:splash gap:platform="ios" height="960" src="res/screen/ios/screen-iphone-portrait-2x.png" width="640" />
  <gap:splash gap:platform="ios" height="1024" src="res/screen/ios/screen-ipad-portrait.png" width="768" />
  <gap:splash gap:platform="ios" height="768" src="res/screen/ios/screen-ipad-landscape.png" width="1024" />
  <gap:splash gap:platform="winphone" src="res/screen/windows-phone/screen-portrait.jpg" />
  <access origin="http://127.0.0.1*" />
</widget>

```

config.xml

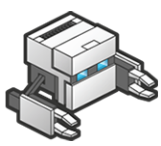




config.xml (part 1/3)

widget id, version,
name, description, author

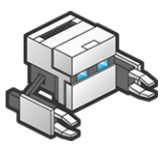
```
<?xml version='1.0' encoding='utf-8'?>
<widget
  id="com.phonegap.helloworld"
  version="1.0.0"
  xmlns="http://www.w3.org/ns/widgets"
  xmlns:gap="http://phonegap.com/ns/1.0">
  <name>HelloWorld</name>
  <description>
    Hello World sample application
  </description>
  <author email="support@phonegap.com" href="http://phonegap.com">
    PhoneGap Team
  </author>
  <feature name="http://api.phonegap.com/1.0/device" />
  <preference name="permissions" value="none" />
  <icon src="icon.png" />
</widget>
```



config.xml (part 2/3)

feature, preference, icon

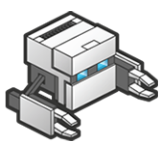
```
<feature name="http://api.phonegap.com/1.0/device" />
<preference name="permissions" value="none" />
<preference name="orientation" value="default" />
<preference name="target-device" value="universal" />
<preference name="fullscreen" value="true" />
<preference name="webviewbounce" value="true" />
<preference name="prerendered-icon" value="true" />
<preference name="stay-in-webview" value="false" />
<preference name="ios-statusbarstyle" value="black-opaque" />
<preference name="detect-data-types" value="true" />
<preference name="exit-on-suspend" value="false" />
<preference name="show-splash-screen-spinner" value="true" />
<preference name="auto-hide-splash-screen" value="true" />
<preference name="disable-cursor" value="false" />
<preference name="android-minSdkVersion" value="7" />
<preference name="android-installLocation" value="auto" />
<icon src="icon.png" />
```



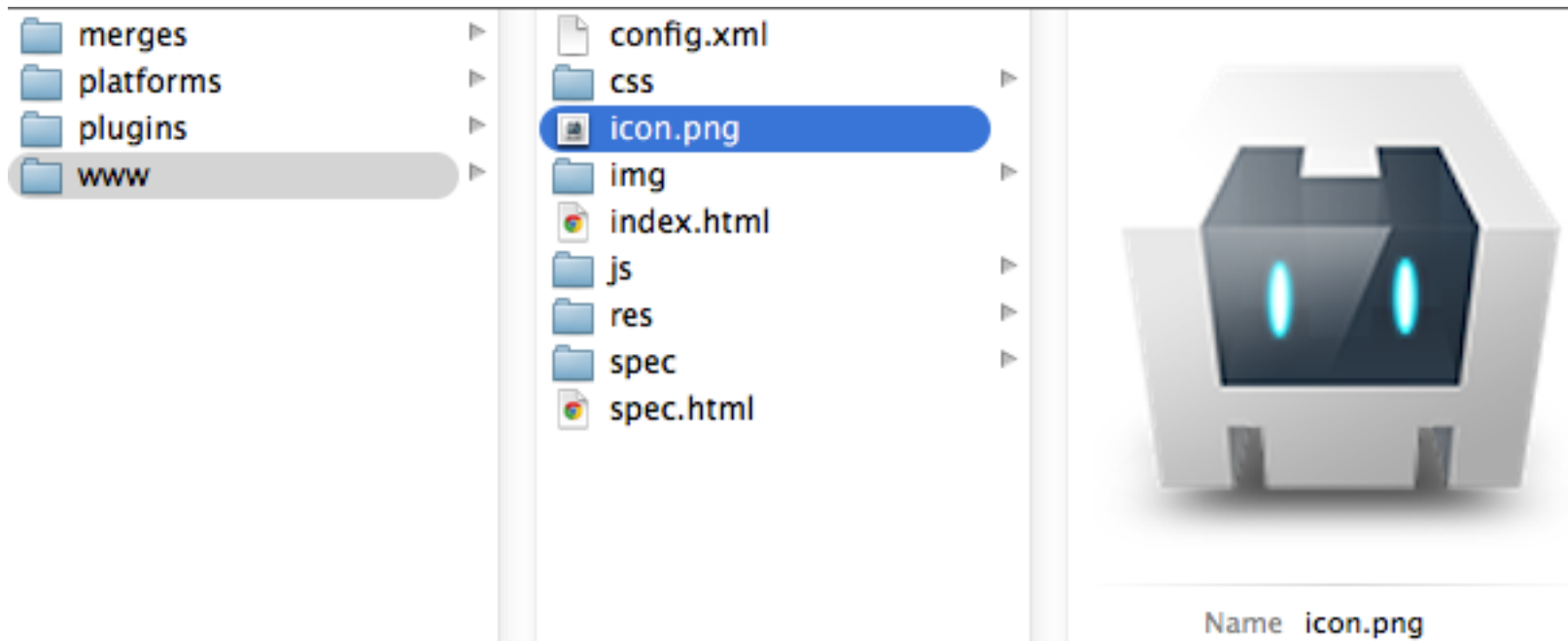
config.xml (part 3/3)

gap:splash

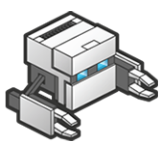
```
<gap:splash gap:density="ldpi" gap:platform="android"
src="res/screen/android/screen-ldpi-portrait.png" />
  <gap:splash gap:density="mdpi" gap:platform="android"
src="res/screen/android/screen-mdpi-portrait.png" />
  <gap:splash gap:density="hdpi" gap:platform="android"
src="res/screen/android/screen-hdpi-portrait.png" />
  <gap:splash gap:density="xhdpi" gap:platform="android"
src="res/screen/android/screen-xhdpi-portrait.png" />
  <gap:splash gap:platform="blackberry"
src="res/screen/blackberry/screen-225.png" />
  <gap:splash gap:platform="ios" height="480"
src="res/screen/ios/screen-iphone-portrait.png"
width="320" />
  <gap:splash gap:platform="ios" height="960"
src="res/screen/ios/screen-iphone-portrait-2x.png" width="640" />
  <gap:splash gap:platform="ios" height="1024"
src="res/screen/ios/screen-ipad-portrait.png" width="768" />
  <gap:splash gap:platform="ios" height="768"
src="res/screen/ios/screen-ipad-landscape.png" width="1024" />
  <gap:splash gap:platform="winphone" src="res/screen/windows-
phone/screen-portrait.jpg" />
  <access origin="http://127.0.0.1*" />
```



icon.png (128x128)

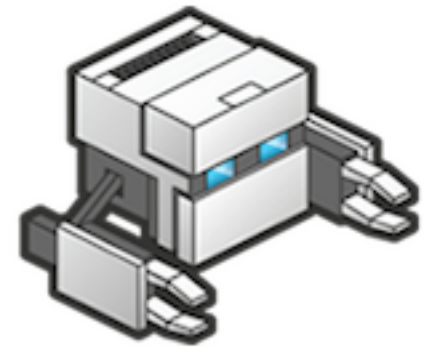
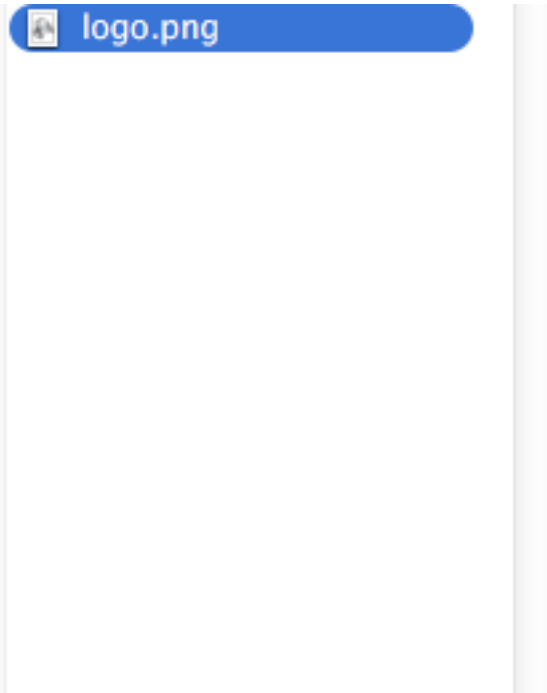
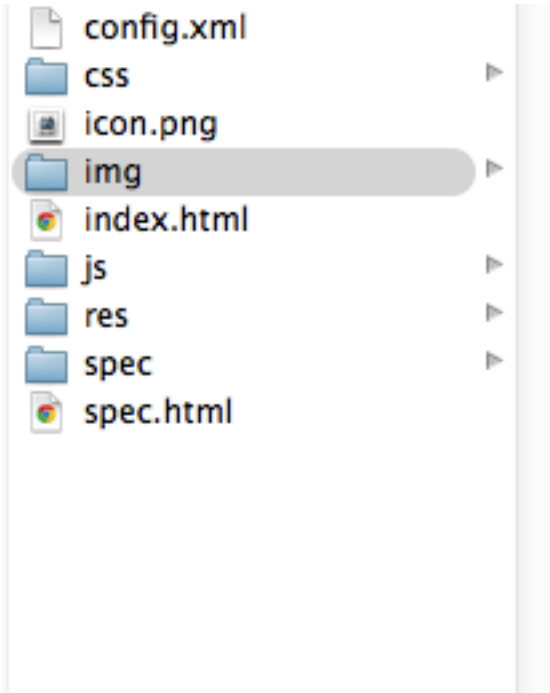


```
<icon src="icon.png" />
```

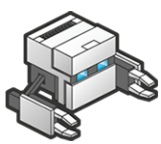


logo.png

(172x200)



Name logo.png
Kind Portable Network...
Size 30 KB



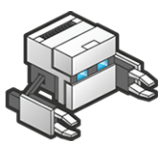
screen-iphone-landscape.png

(320x480)

The screenshot shows a file explorer interface with three panes. The left pane shows a tree view with 'icon' and 'screen' folders. The middle pane shows subfolders: 'android', 'bada', 'bada-wac', 'blackberry', 'ios' (selected), 'tizen', 'webos', and 'windows-phone'. The right pane shows a list of files, with 'screen-iphone-landscape.png' selected. To the right of the file list is a preview area showing a printer icon. Below the preview, the following metadata is displayed:

Name	screen-iphone-landscape.png
Kind	Portable Network...
Size	29 KB

```
<gap:splash gap:platform="ios" height="480"  
src="res/screen/ios/screen-iphone-  
landscape.png" width="320" />
```



screen-mdpi-portrait.png

(320x480)

The screenshot shows the file explorer in an IDE. On the left, a list of folders is shown: android, bada, bada-wac, blackberry, ios, tizen, webos, and windows-phone. The 'android' folder is selected. In the center, a list of files is shown, with 'screen-mdpi-portrait.png' highlighted. On the right, the details for the selected file are shown: Name: screen-mdpi-portrait.png, Kind: Portable Network Graphics..., and Size: 29 KB.

```
<gap:splash gap:density="mdpi" gap:platform="android"  
src="res/screen/android/screen-mdpi-
```


Generate icon online

Quirco [Quirco - iPhone Sc x]

www.quirco.com/iPhoneIcon/Preview/a2b9299b-e842-4f7e-b641-58d26bb995a8

quirco

iPhone Icon Maker News Cash Stream Guitar Notes Trainer Support

[f](#) [t](#) [e](#) [g](#) [+](#)

View Generated Icon

[Recommend](#) [Send](#) [f](#) Be the first of your friends to recommend this.

[Generate another icon](#)

iPhone Preview



57x57 (iPhone) [download](#)



72x72 (iPad, iPad 2) [download](#)

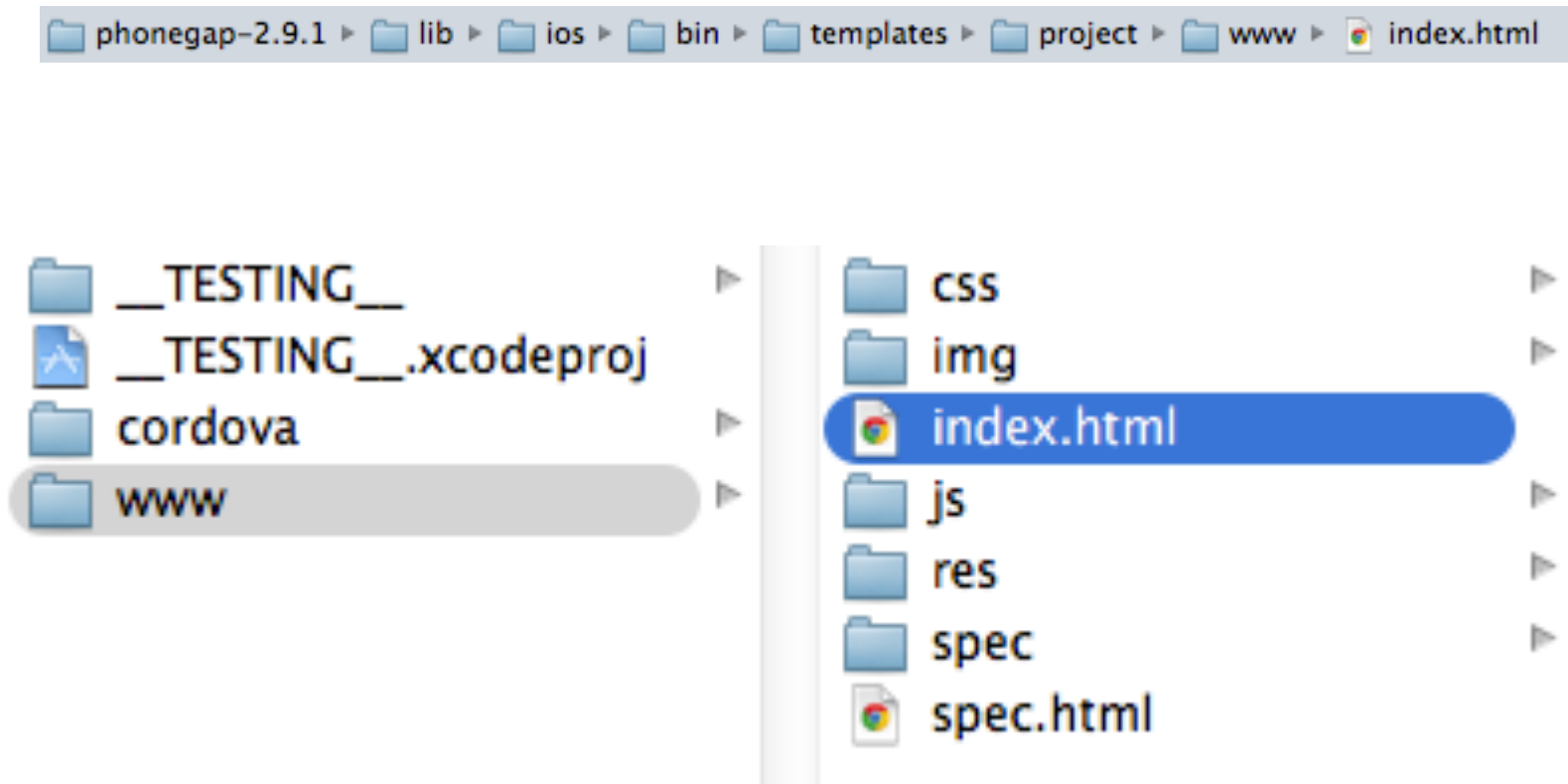


114x114 (iPhone 4, iPhone 5 and iPad 3) [download](#)



<http://www.quirco.com/iPhoneIcon>

phonegap- 2.9.1/lib/ios/bin/templates/project/w ww/index.html



```
<html>
  <head>
    <meta charset="utf-8" />
    <meta name="format-detection" content="telephone=no" />
    <meta name="viewport" content="user-scalable=no, initial-scale=1, maximum-scale=1,
minimum-scale=1, width=device-width, height=device-height, target-densitydpi=device-dpi" />
    <link rel="stylesheet" type="text/css" href="css/index.css" />
    <title>Hello World</title>
  </head>
  <body>
    <div class="app">
      <h1>PhoneGap</h1>
      <div id="deviceready" class="blink">
        <p class="event listening">Connecting to Device</p>
        <p class="event received">Device is Ready</p>
      </div>
    </div>
    <script type="text/javascript" src="phonegap.js"></script>
    <script type="text/javascript" src="js/index.js"></script>
    <script type="text/javascript">
      app.initialize();
    </script>
  </body>
</html>
```

Download Zip File: jquery.mobile-1.3.2.zip (JavaScript, CSS, and images)

Download

CDN-Hosted JavaScript:

- **Uncompressed:** [jquery.mobile-1.3.2.js](#) (useful for debugging)
- **Minified:** [jquery.mobile-1.3.2.min.js](#) (full library, ready to deploy)

CDN-Hosted CSS:

- **Uncompressed with Default theme:** [jquery.mobile-1.3.2.css](#) (useful for debugging)
- **Minified with Default theme:** [jquery.mobile-1.3.2.min.css](#) (full library, ready to deploy)
- **Uncompressed structure without a theme:** [jquery.mobile-1.3.2.css](#) (useful for theme development)
- **Minified structure without a theme:** [jquery.mobile-1.3.2.min.css](#) (full library, ready to deploy)

Copy-and-Paste Snippet for CDN-hosted files (recommended):

```
<link rel="stylesheet" href="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.css" />
<script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
<script src="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.js"></script>
```

ZIP File:

If you want to host the files yourself you can download a zip of all the files:

- **Zip File:** [jquery.mobile-1.3.2.zip](#) (JavaScript, CSS, and images)

Microsoft CDN hosted jQuery Mobile files:

- <http://www.asp.net/ajaxLibrary/CDN.ashx>

Fork jQuery Mobile on GitHub

<https://github.com/jquery/jquery-mobile>

Change log

Popup

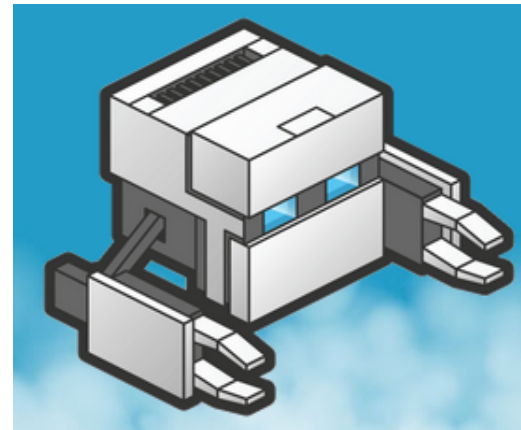
Remove: Completely remove position data through to remove from position handler

<http://jquerymobile.com/blog/2013/07/19/announcing-jquery-mobile-1-3-2/#download>

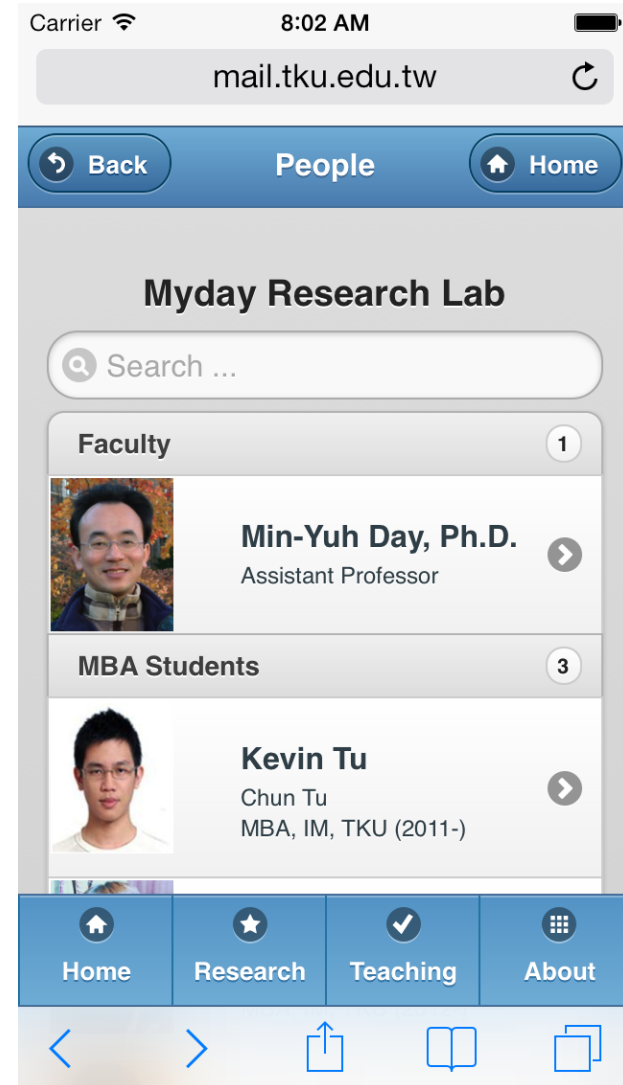
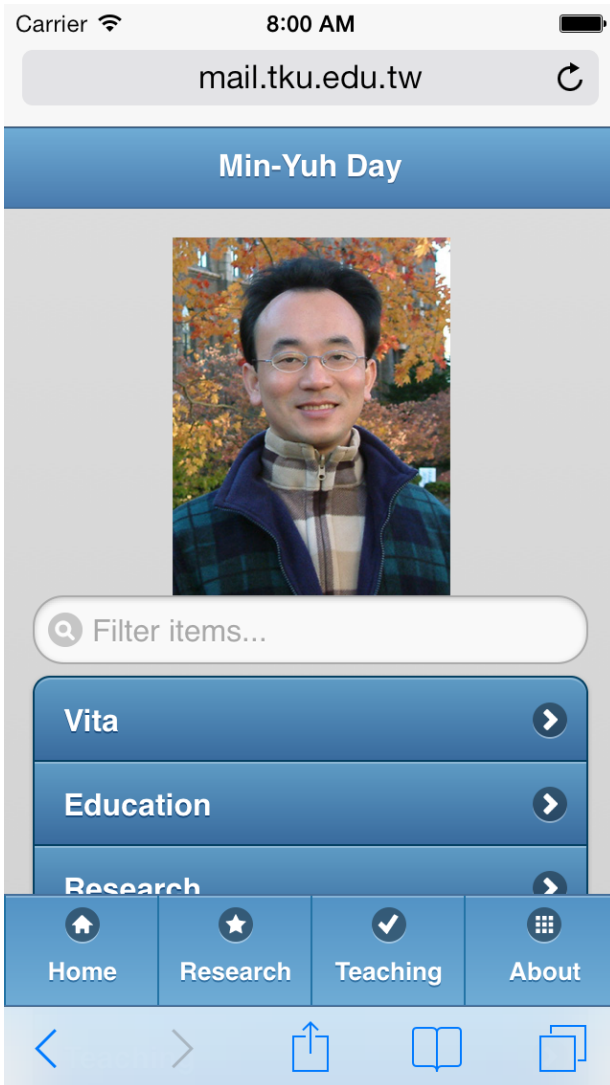
Demo

Create Hybrid Apps with PhoneGap

<https://build.phonegap.com/>



Myday Mobile App -> Hybrid App

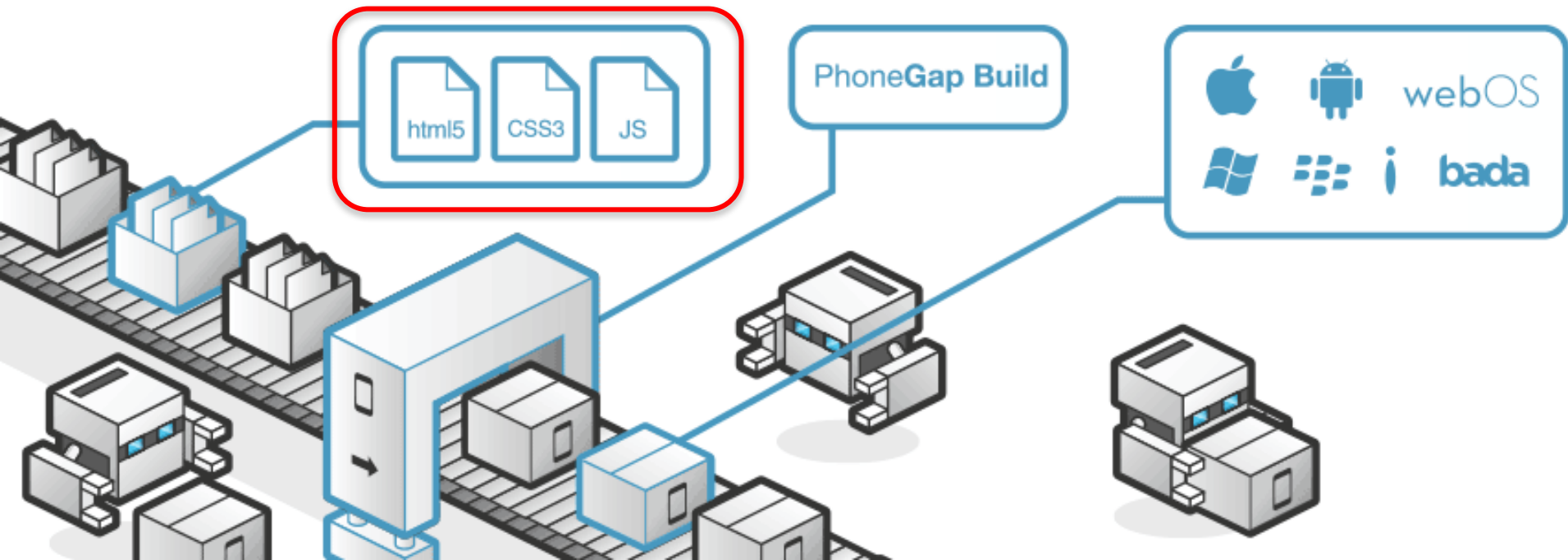


<http://mail.tku.edu.tw/myday/m>

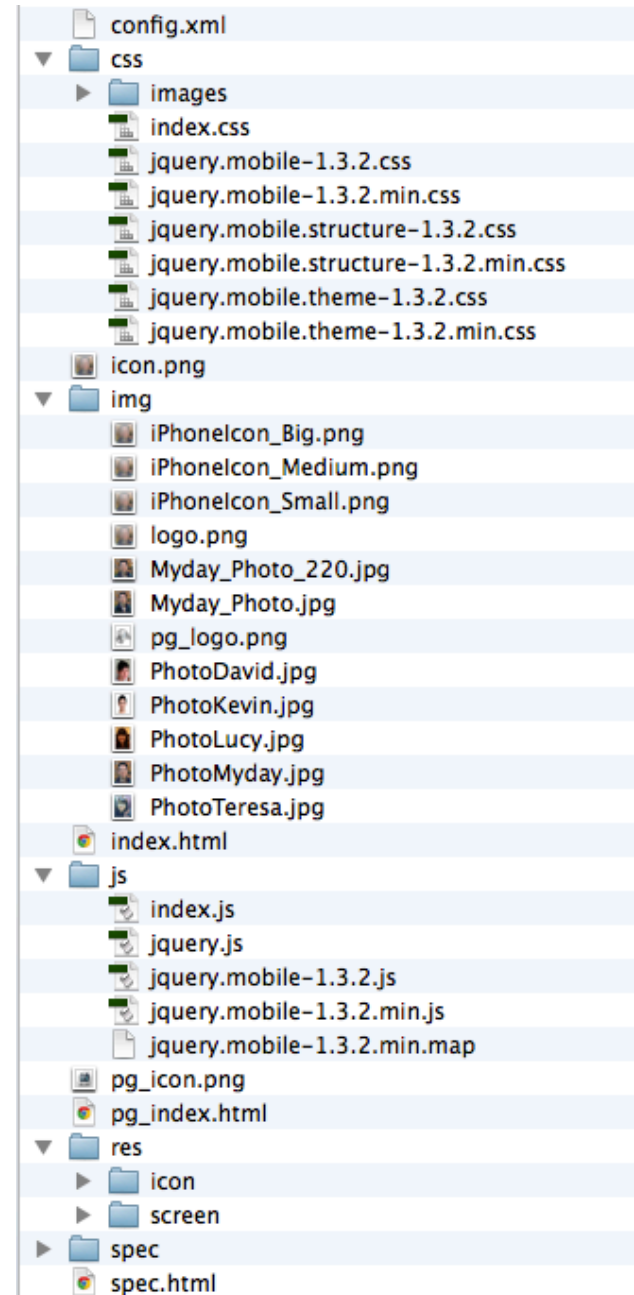
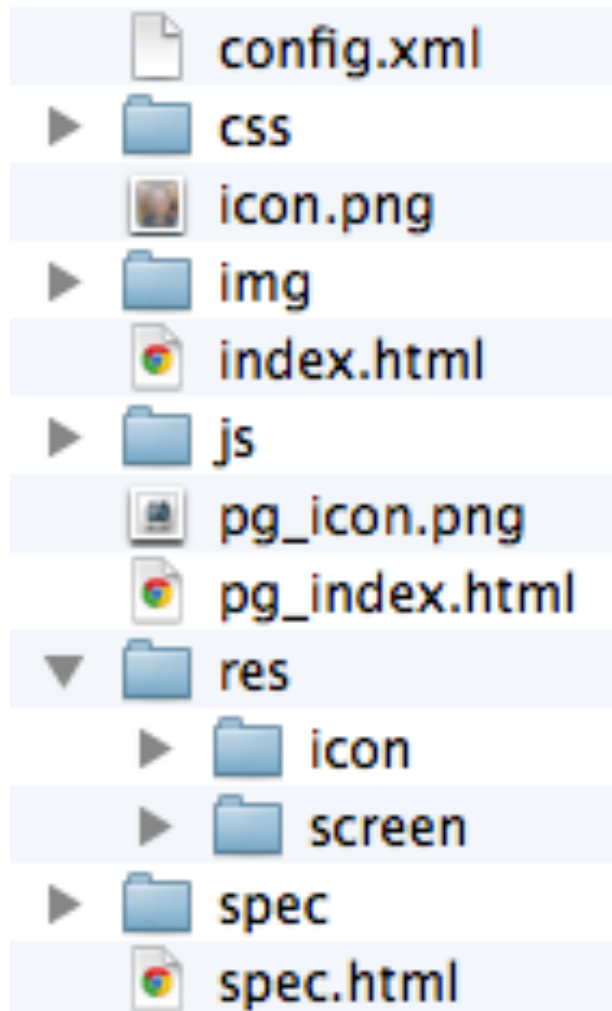


<http://mail.tku.edu.tw/myday/app/>

PhoneGap Build



app.zip

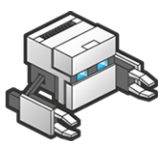


config.xml

config.xml

```
1 <?xml version='1.0' encoding='utf-8'?>
2 <widget id="com.imtku.smap.mydaymobileapp" version="1.0.0" xmlns="http://www.w3.org/ns/widgets" xmlns:gap="http://phonegap.com/ns/1.0">
3   <name>Myday Mobile App</name>
4   <description>
5     Myday Mobile App for Prof. Min-Yuh Day, Department of Information Management, Tamkang University
6   </description>
7   <author email="myday@mail.tku.edu.tw" href="http://mail.tku.edu.tw/myday">
8     Min-Yuh Day
9   </author>
```

```
<?xml version='1.0' encoding='utf-8'?>
<widget id="com.imtku.smap.mydaymobileapp" version="1.0.0"
xmlns="http://www.w3.org/ns/widgets" xmlns:gap="http://phonegap.com/ns/1.0">
  <name>Myday Mobile App</name>
  <description>
    Myday Mobile App for Prof. Min-Yuh Day, Department of Information
Management, Tamkang University
  </description>
  <author email="myday@mail.tku.edu.tw" href="http://mail.tku.edu.tw/myday">
    Min-Yuh Day
  </author>
```



Install PhoneGap

The screenshot shows the PhoneGap installation page. A blue banner on the left says "We're Hiring!". The navigation bar includes "PhoneGap", "About", "Developer", "Community", "Apps", and "Enterprise", with an "Install" button highlighted in red. The main content is divided into "Install" and "Usage" sections. The "Install" section contains a red-bordered box with the text "To Install, ensure that you have NodeJS installed, then open your commandline and run the following:" and a terminal snippet box with the command `$ sudo npm install -g phonegap`. Below this is the text "Once installation completes, you can invoke phonegap on command line for further help." The "Usage" section contains a red-bordered terminal snippet box with the commands `$ phonegap create my-app`, `$ cd my-app`, and `$ phonegap run android`. Below this is the text "Learn more at docs.phonegap.com". At the bottom, an "Archives" section shows three versions: "PhoneGap 2.9.1" (Released 05 Nov 2013), "PhoneGap 2.9.0" (Released 26 Jun 2013), and "PhoneGap 2.8.1" (Released 12 Jun 2013). The "PhoneGap 2.9.1" version is highlighted with a red box.

Install

To Install, ensure that you have [NodeJS](#) installed, then open your commandline and run the following:

```
$ sudo npm install -g phonegap
```

Once installation completes, you can invoke `phonegap` on command line for further help.

Usage

```
$ phonegap create my-app
$ cd my-app
$ phonegap run android
```

Learn more at docs.phonegap.com

Archives

PhoneGap 2.9.1 Released 05 Nov 2013	PhoneGap 2.9.0 Released 26 Jun 2013	PhoneGap 2.8.1 Released 12 Jun 2013
---	---	---

<http://phonegap.com/install/>



NodeJS

The screenshot shows the Node.js website homepage. At the top, there is a navigation menu with links for HOME, DOWNLOADS, DOCS, COMMUNITY, ABOUT, JOBS, and BLOG. The main content area features a description of Node.js as a platform built on Chrome's JavaScript runtime, followed by the current version (v0.10.33). A prominent green button labeled 'INSTALL' is highlighted with a red border. Below it are buttons for 'DOWNLOADS' and 'API DOCS'. A banner for 'NODE.JS ON THE ROAD' is visible, along with a section for 'AN EXAMPLE: WEBSERVER' and a 'FEATURED' section.

nodejs.org/dist/v0.10.33/node-v0.10.33.pkg

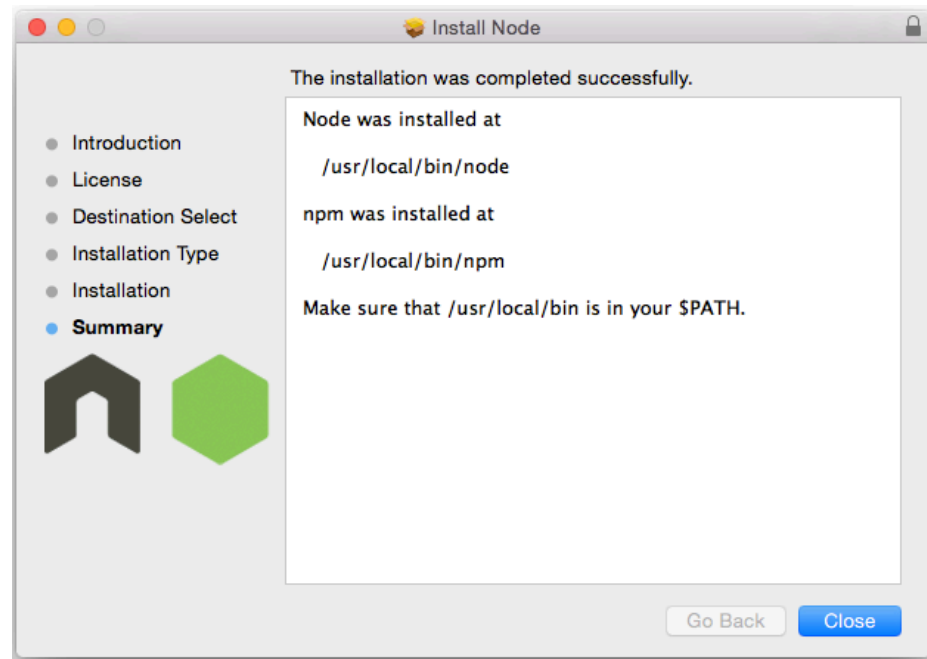
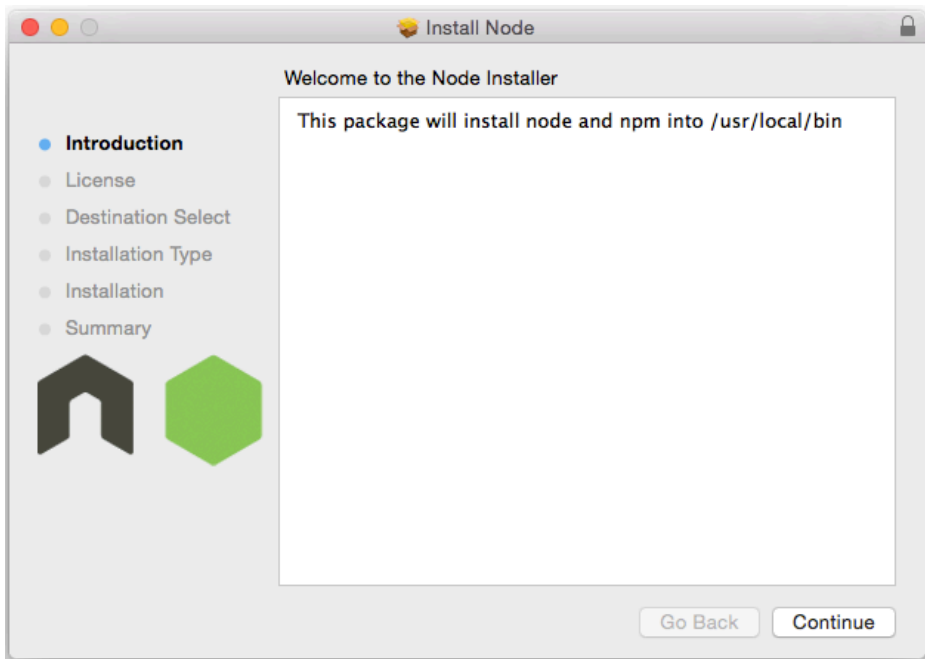
<http://nodejs.org/>

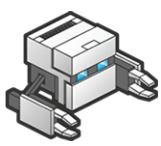
Install NodeJS



node-v0.10.33.pkg

10.2 MB





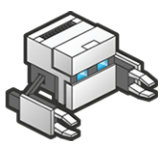
PhoneGape Install

\$ `sudo npm install -g phonegap`

```
npm http 304 https://registry.npmjs.org/bytes/0.1.0
npm http 304 https://registry.npmjs.org/qs/0.5.1
npm http 304 https://registry.npmjs.org/formidable/1.0.11
npm http GET https://registry.npmjs.org/abbrev
npm http GET https://registry.npmjs.org/optimist
npm http GET https://registry.npmjs.org/underscore/1.2.1
npm http GET https://registry.npmjs.org/inl
npm http GET https://registry.npmjs.org/deep-extend
npm http GET https://registry.npmjs.org/fstream
npm http GET https://registry.npmjs.org/commander
npm http GET https://registry.npmjs.org/pegjs/0.6.2
npm http GET https://registry.npmjs.org/node-uuid/1.3.3
npm http 304 https://registry.npmjs.org/underscore/1.2.1
npm http 304 https://registry.npmjs.org/abbrev
npm http 304 https://registry.npmjs.org/inl
npm http 304 https://registry.npmjs.org/deep-extend
npm http 304 https://registry.npmjs.org/optimist
npm http 304 https://registry.npmjs.org/fstream
npm http 304 https://registry.npmjs.org/commander
npm http 304 https://registry.npmjs.org/node-uuid/1.3.3
npm http 304 https://registry.npmjs.org/pegjs/0.6.2
npm http GET https://registry.npmjs.org/wordwrap
npm http GET https://registry.npmjs.org/keypress
npm http GET https://registry.npmjs.org/rimraf
npm http GET https://registry.npmjs.org/inherits
npm http GET https://registry.npmjs.org/mkdirp
npm http GET https://registry.npmjs.org/graceful-fs
npm http 304 https://registry.npmjs.org/wordwrap
npm http 304 https://registry.npmjs.org/keypress
npm http 304 https://registry.npmjs.org/rimraf
npm http 304 https://registry.npmjs.org/inherits
npm http 304 https://registry.npmjs.org/mkdirp
npm http 304 https://registry.npmjs.org/graceful-fs
/usr/local/bin/phonegap -> /usr/local/lib/node_modules/phonegap.js
phonegap@3.1.0-0.15.0 /usr/local/lib/node_modules/phonegap
├── colors@0.6.0-1
├── pluralize@0.0.4
├── semver@1.1.0
├── qrcode-terminal@0.9.4
├── shelljs@0.1.4
├── optimist@0.6.0 (minimist@0.0.5, wordwrap@0.0.2)
├── node-static@0.7.0 (colors@0.6.2, mime@1.2.11)
├── prompt@0.2.11 (revalidator@0.1.5, pkginfo@0.3.0, read@1.0.5, winston@0.6.2,
util@0.2.0)
├── phonegap-build@0.8.4 (qrcode-terminal@0.8.0, shelljs@0.0.9, optimist@0.3.7,
phonegap-build-api@0.3.3)
├── cordova@3.1.0-0.1.0 (ncallbacks@1.0.0, colors@0.6.2, open@0.0.3, mime@1.2.11
, follow-redirects@0.0.3, shelljs@0.1.2, xcode@0.5.1, tar@0.1.18, elementtree@0.
1.5, glob@3.2.7, prompt@0.2.7, express@3.0.0, request@2.22.0, npm@1.3.14, plist@
0.4.3, ripple-emulator@0.9.18, plugman@0.13.0)
pc16:development imydays
```



npm (Node Package Manager)



PhoneGape Install

```
$ sudo npm install -g phonegap
```

```
pc248:desktop imyday$ sudo npm install -g phonegap

WARNING: Improper use of the sudo command could lead to data loss
or the deletion of important system files. Please double-check your
typing when using sudo. Type "man sudo" for more information.

To proceed, enter your password, or type Ctrl-C to abort.

Password:
npm WARN deprecated deflate-crc32-stream@0.1.2: module has been merged into crc3
2-stream

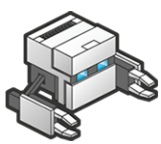
> ws@0.4.31 install /usr/local/lib/node_modules/phonegap/node_modules/connect-ph
onegap/node_modules/socket.io/node_modules/engine.io/node_modules/ws
> (node-gyp rebuild 2> builderror.log) || (exit 0)

CXX(target) Release/obj.target/bufferutil/src/bufferutil.o
SOLINK_MODULE(target) Release/bufferutil.node
SOLINK_MODULE(target) Release/bufferutil.node: Finished
CXX(target) Release/obj.target/validation/src/validation.o
SOLINK_MODULE(target) Release/validation.node
SOLINK_MODULE(target) Release/validation.node: Finished

> ws@0.4.31 install /usr/local/lib/node_modules/phonegap/node_modules/connect-ph
```

```
pc248:desktop imyday$ sudo npm install -g phonegap

CXX(target) Release/obj.target/validation/src/validation.o
SOLINK_MODULE(target) Release/validation.node
SOLINK_MODULE(target) Release/validation.node: Finished
/usr/local/bin/phonegap -> /usr/local/lib/node_modules/phonegap/bin/phonegap.js
phonegap@3.6.0-0.21.19 /usr/local/lib/node_modules/phonegap
├─ pluralize@0.0.4
├─ colors@0.6.0-1
├─ semver@1.1.0
├─ minimist@0.1.0
├─ qrcode-terminal@0.9.4
├─ shelljs@0.1.4
├─ phonegap-build@0.8.4 (qrcode-terminal@0.8.0, shelljs@0.0.9, phonegap-build-a
pi@0.3.3, optimist@0.3.7)
├─ prompt@0.2.11 (revalidator@0.1.8, pkginfo@0.3.0, read@1.0.5, winston@0.6.2,
utile@0.2.1)
├─ cordova-lib@0.21.13 (osenv@0.0.3, properties-parser@0.2.3, bplist-parser@0.0
.6, mime@1.2.11, q@0.9.7, semver@2.0.11, unorm@1.3.3, underscore@1.4.4, dep-grap
h@1.1.0, rc@0.3.0, xcode@0.6.7, npmconf@0.1.16, elementtree@0.1.5, glob@3.2.11,
tar@0.1.20, request@2.22.0, npm@1.3.4, plist@1.0.1, cordova-js@3.6.4)
├─ connect-phonegap@0.13.0 (home-dir@0.1.2, connect-inject@0.3.2, ip@0.3.1, mkp
ath@0.1.0, ncp@0.6.0, findit@2.0.0, shelljs@0.2.6, request-progress@0.3.1, node-
static@0.7.0, gaze@0.4.3, localtunnel@1.3.0, tar@0.1.19, request@2.33.0, archive
r@0.10.1, useragent@2.0.8, connect@2.12.0, socket.io@1.0.6)
pc248:desktop imyday$
```



PhoneGape Usage

```
$ phonegap create myapp
```

```
[phonegap] missing library phonegap/www/3.1.0
```

```
[phonegap] downloading
```

```
https://github.com/phonegap/phonegap-app-hello-  
world/archive/3.1.0.tar.gz...
```

```
[phonegap] created project at  
/Users/imyday/Development/myapp
```

```
$ cd myapp
```

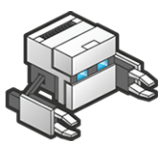
```
$ phonegap run android
```

```
[phonegap] detecting Android SDK environment...
```

```
[phonegap] using the remote environment
```

```
[phonegap] compressing the app...
```

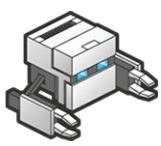
```
[phonegap] uploading the app...
```








PhoneGap Usage

```
myapp — bash — 100x32
pc248:desktop imyday$ phonegap create myapp
[phonegap] missing library com.phonegap.helloworld/www/3.6.0
[phonegap] downloading https://github.com/phonegap/phonegap-app-hello-world/archive/3.6.0.tar.gz...
[phonegap] create called with the options /Users/imyday/Desktop/myapp com.phonegap.helloworld Hello
orld
[phonegap] Customizing default config.xml file
[phonegap] created project at /Users/imyday/Desktop/myapp
pc248:desktop imyday$ cd myapp
pc248:myapp imyday$ phonegap run android
[phonegap] detecting Android SDK environment...
[phonegap] using the local environment
[phonegap] adding the Android platform...
npm http GET https://registry.npmjs.org/cordova-android/3.6.3
npm http 200 https://registry.npmjs.org/cordova-android/3.6.3
npm http GET https://registry.npmjs.org/cordova-android/-/cordova-android-3.6.3.tgz
npm http 200 https://registry.npmjs.org/cordova-android/-/cordova-android-3.6.3.tgz

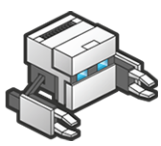
/Users/imyday/.cordova/lib/npm_cache/cordova-android/3.6.3/package/bin/node_modules/q/q.js:126
    throw e;
      ^
Error: ANDROID_HOME is not set and "android" command not in your PATH. You must fulfill at least one
of these conditions.
    at /Users/imyday/.cordova/lib/npm_cache/cordova-android/3.6.3/package/bin/lib/check_reqs.js:158:
19
    at _fulfilled (/Users/imyday/.cordova/lib/npm_cache/cordova-android/3.6.3/package/bin/node_modul
es/q/q.js:798:54)
    at self.promiseDispatch.done (/Users/imyday/.cordova/lib/npm_cache/cordova-android/3.6.3/package
/bin/node_modules/q/q.js:827:30)
    at Promise.promise.promiseDispatch (/Users/imyday/.cordova/lib/npm_cache/cordova-android/3.6.3/p
ackage/bin/node_modules/q/q.js:760:13)
    at /Users/imyday/.cordova/lib/npm_cache/cordova-android/3.6.3/package/bin/node_modules/q/q.js:82
1:14
```











myapp/

Name	^	Size	Kind
 config.xml		5 KB	XML text
▶  hooks		--	Folder
▶  platforms		--	Folder
▶  plugins		--	Folder
▶  www		--	Folder

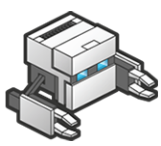
Macintosh HD ▶ Users ▶ imyday ▶ Desktop ▶ myapp



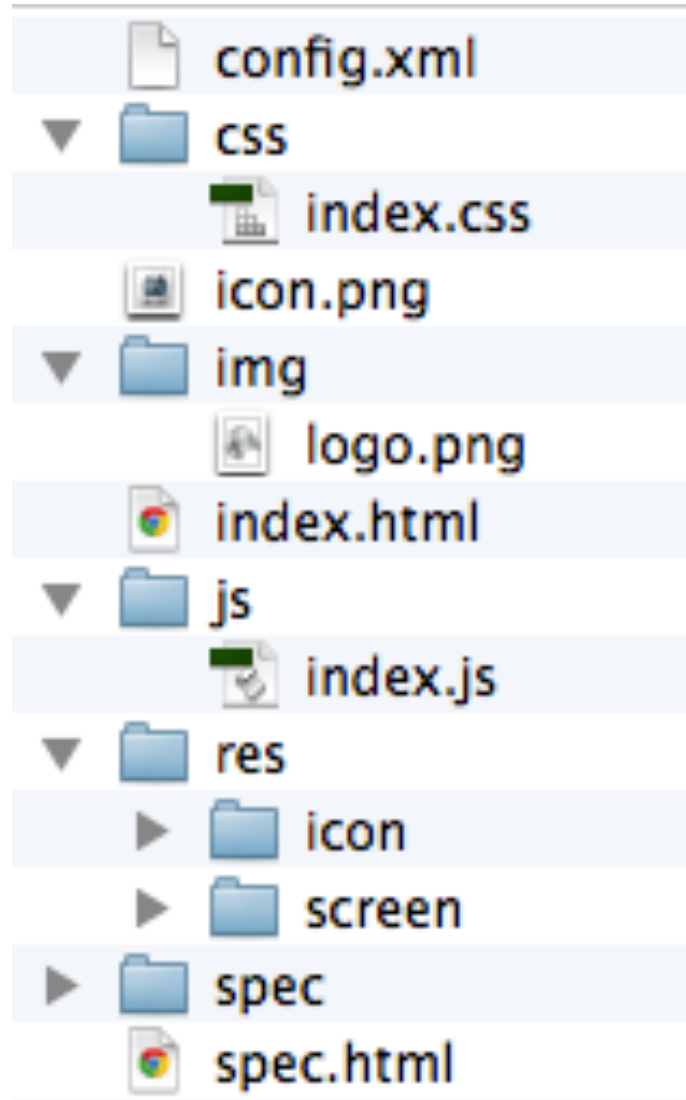
myapp/www/

Name	Size	Kind
▼  css	--	Folder
 index.css	4 KB	CSS
 icon.png	11 KB	PNG image
▼  img	--	Folder
 logo.png	30 KB	PNG image
 index.html	2 KB	HTML text
▼  js	--	Folder
 index.js	2 KB	JavaScript
▶  res	--	Folder
▶  spec	--	Folder
 spec.html	3 KB	HTML text

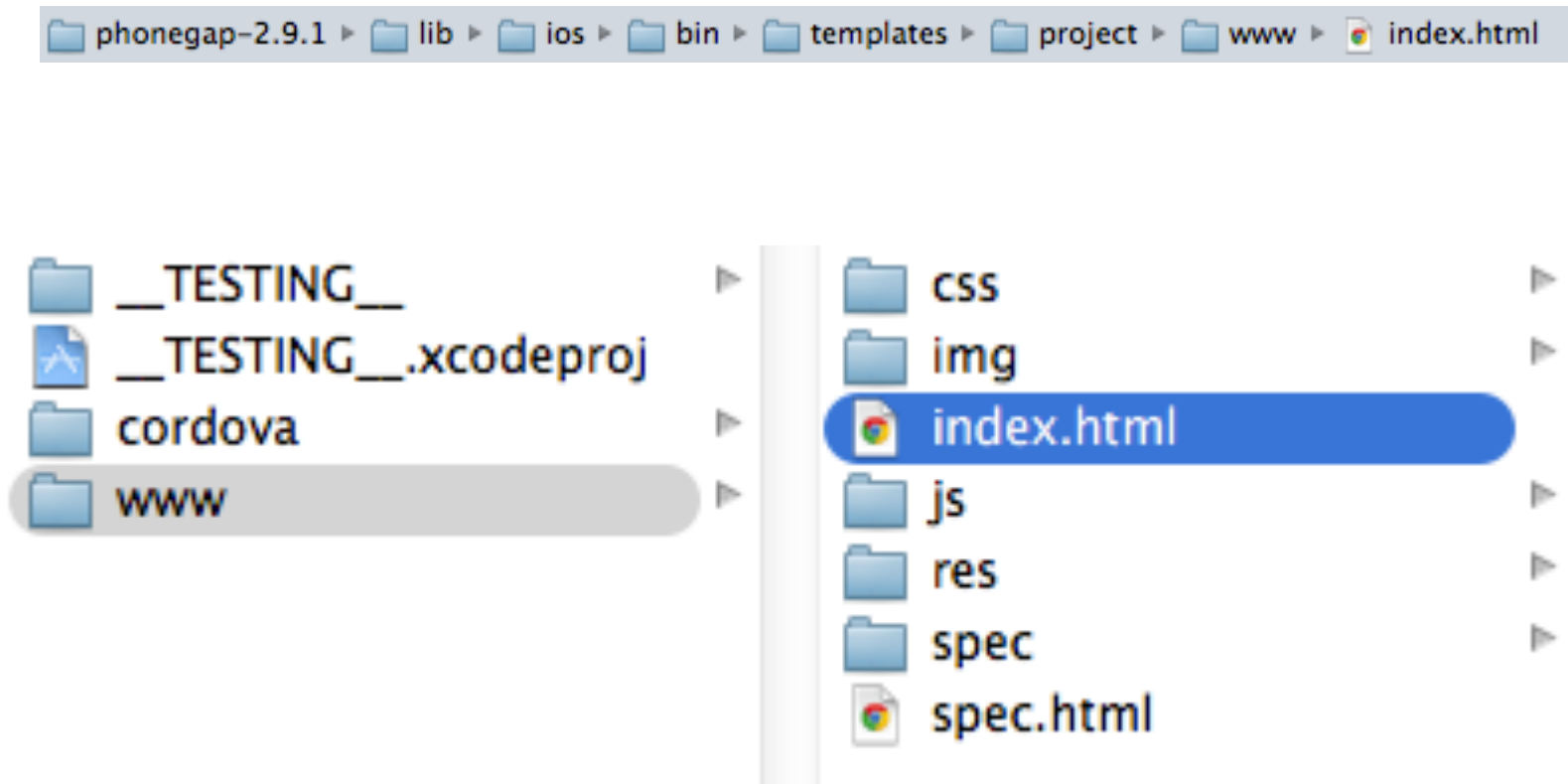
Macintosh HD ▶ Users ▶ imyday ▶ Desktop ▶ myapp ▶ www



myapp/www/



phonegap- 2.9.1/lib/ios/bin/templates/project/w ww/index.html



```
<html>
  <head>
    <meta charset="utf-8" />
    <meta name="format-detection" content="telephone=no" />
    <meta name="viewport" content="user-scalable=no, initial-scale=1, maximum-scale=1,
minimum-scale=1, width=device-width, height=device-height, target-densitydpi=device-dpi" />
    <link rel="stylesheet" type="text/css" href="css/index.css" />
    <title>Hello World</title>
  </head>
  <body>
    <div class="app">
      <h1>PhoneGap</h1>
      <div id="deviceready" class="blink">
        <p class="event listening">Connecting to Device</p>
        <p class="event received">Device is Ready</p>
      </div>
    </div>
    <script type="text/javascript" src="phonegap.js"></script>
    <script type="text/javascript" src="js/index.js"></script>
    <script type="text/javascript">
      app.initialize();
    </script>
  </body>
</html>
```

index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Min-Yuh Day Mobile App</title>
    <meta charset=utf-8 />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <link type="text/css" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel="stylesheet" />
    <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"></script>
    <!--PhoneGap-->
    <link rel="stylesheet" type="text/css" href="css/index.css" />
    <script type="text/javascript" src="phonegap.js"></script>
    <script type="text/javascript" src="js/index.js"></script>
    <!--/PhoneGap-->
    <script type="text/javascript">
      app.initialize();
    </script>
  </head>
  <body>
    <div data-role="page" id="MyHome" data-theme="b">
      <div data-role="header" data-theme="b">
        <h1>Min-Yuh Day</h1>
      </div><!-- /header -->

      <div data-role="content">
        <div style="text-align:center">
          
        </div>
      </div>
    </div>
  </body>
</html>
```

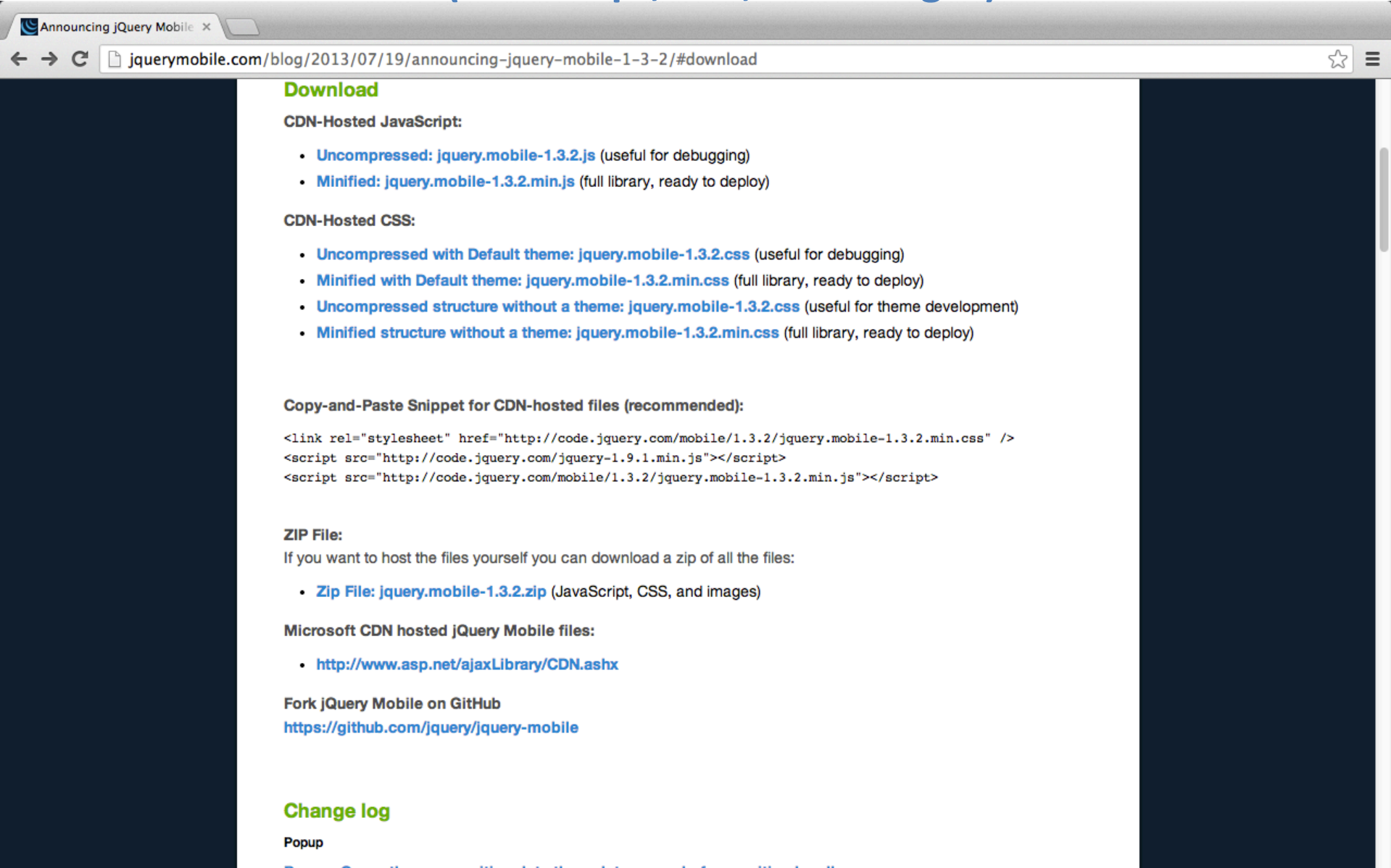
index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Min-Yuh Day Mobile App</title>
    <meta charset=utf-8 />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <link type="text/css"
href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css"
rel="stylesheet" />
    <script type="text/javascript"
src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"></script>
    <!--PhoneGap-->
    <link rel="stylesheet" type="text/css" href="css/index.css" />
    <script type="text/javascript" src="phonegap.js"></script>
    <script type="text/javascript" src="js/index.js"></script>
    <!--/PhoneGap-->
    <script type="text/javascript">
      app.initialize();
    </script>
  </head>
```

js/index.js

```
index.js x
19 var app = {
20     // Application Constructor
21     initialize: function() {
22         this.bindEvents();
23     },
24     // Bind Event Listeners
25     //
26     // Bind any events that are required on startup. Common events are:
27     // 'load', 'deviceready', 'offline', and 'online'.
28     bindEvents: function() {
29         document.addEventListener('deviceready', this.onDeviceReady, false);
30     },
31     // deviceready Event Handler
32     //
33     // The scope of 'this' is the event. In order to call the 'receivedEvent'
34     // function, we must explicitly call 'app.receivedEvent(...)';
35     onDeviceReady: function() {
36         app.receivedEvent('deviceready');
37     },
38     // Update DOM on a Received Event
39     receivedEvent: function(id) {
40         var parentElement = document.getElementById(id);
41         var listeningElement = parentElement.querySelector('.listening');
42         var receivedElement = parentElement.querySelector('.received');
43
44         listeningElement.setAttribute('style', 'display:none;');
45         receivedElement.setAttribute('style', 'display:block;');
46
47         console.log('Received Event: ' + id);
48     }
49 };
```


Download Zip File: jquery.mobile-1.3.2.zip (JavaScript, CSS, and images)



The screenshot shows a web browser window with the address bar containing the URL: jquerymobile.com/blog/2013/07/19/announcing-jquery-mobile-1-3-2/#download. The page content is as follows:

Download

CDN-Hosted JavaScript:

- **Uncompressed:** [jquery.mobile-1.3.2.js](#) (useful for debugging)
- **Minified:** [jquery.mobile-1.3.2.min.js](#) (full library, ready to deploy)

CDN-Hosted CSS:

- **Uncompressed with Default theme:** [jquery.mobile-1.3.2.css](#) (useful for debugging)
- **Minified with Default theme:** [jquery.mobile-1.3.2.min.css](#) (full library, ready to deploy)
- **Uncompressed structure without a theme:** [jquery.mobile-1.3.2.css](#) (useful for theme development)
- **Minified structure without a theme:** [jquery.mobile-1.3.2.min.css](#) (full library, ready to deploy)

Copy-and-Paste Snippet for CDN-hosted files (recommended):

```
<link rel="stylesheet" href="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.css" />
<script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
<script src="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.js"></script>
```

ZIP File:

If you want to host the files yourself you can download a zip of all the files:

- **Zip File:** [jquery.mobile-1.3.2.zip](#) (JavaScript, CSS, and images)

Microsoft CDN hosted jQuery Mobile files:

- <http://www.asp.net/ajaxLibrary/CDN.ashx>

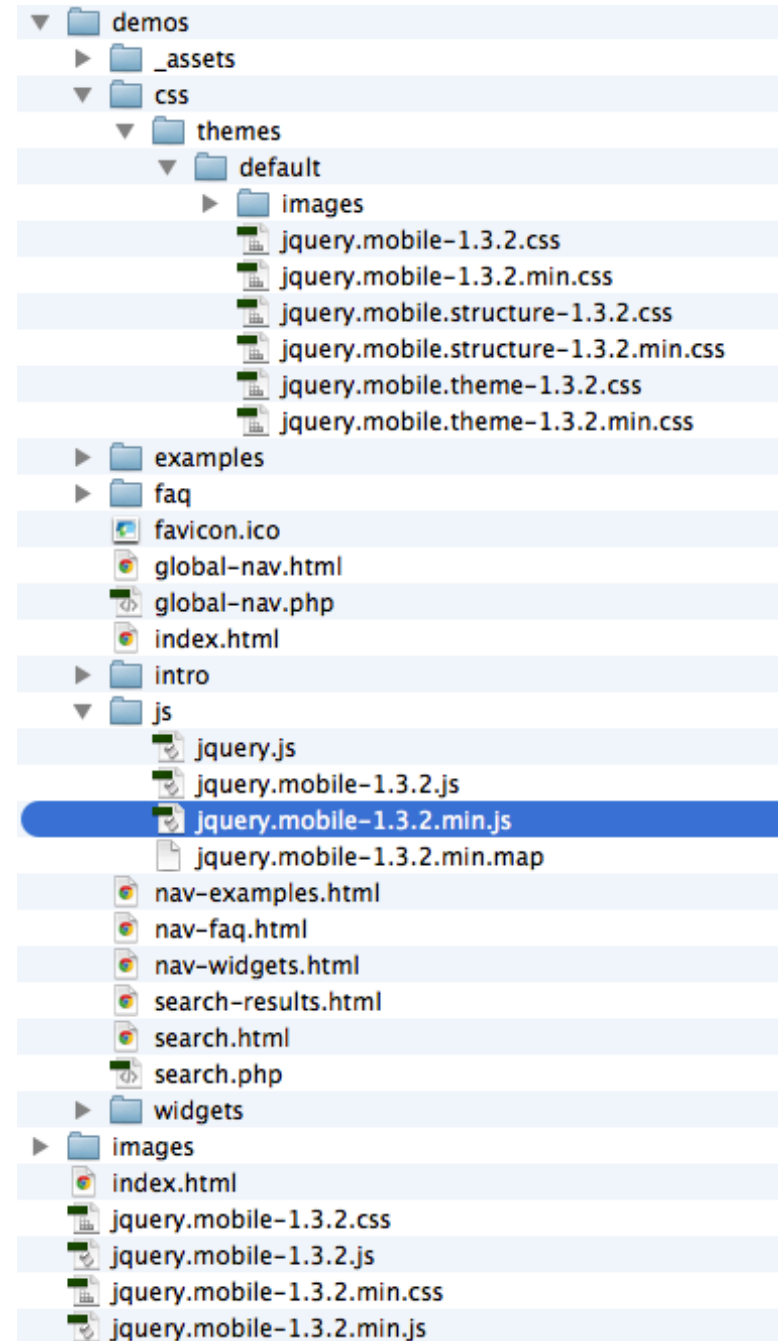
Fork jQuery Mobile on GitHub
<https://github.com/jquery/jquery-mobile>

Change log

Popup

Remove: Something was missing data through to connect for position handling

jquery.mobile-1.3.2



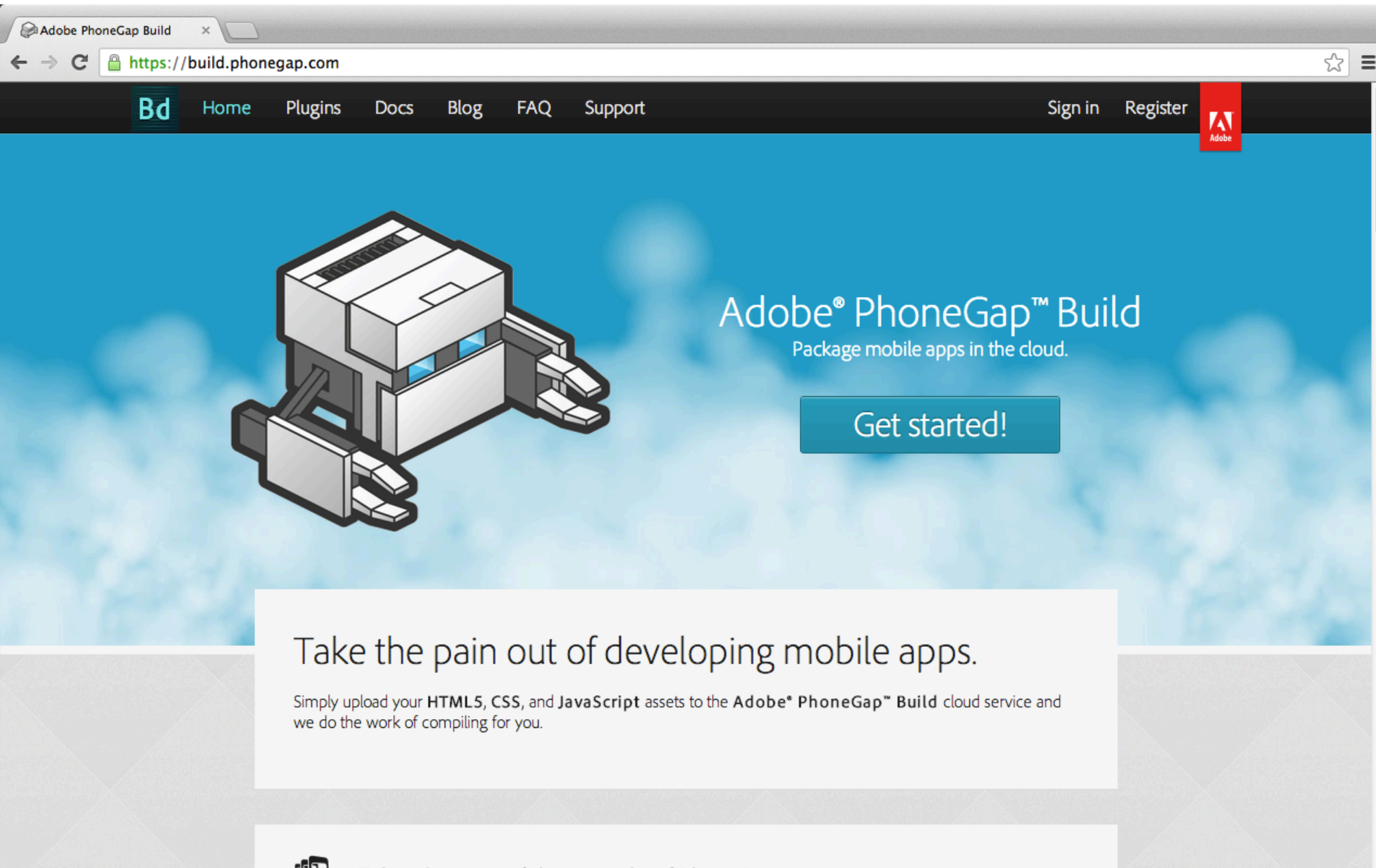
index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Min-Yuh Day Mobile App</title>
    <meta charset=utf-8 />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <script src="js/jquery.js"></script>
    <link type="text/css" href="css/jquery.mobile-1.3.2.min.css" rel="stylesheet" />
    <script type="text/javascript" src="js/jquery.mobile-1.3.2.min.js"></script>
    <!--PhoneGap-->
    <link rel="stylesheet" type="text/css" href="css/index.css" />
    <!--
    <script type="text/javascript" src="phonegap.js"></script>
    -->
    <script type="text/javascript" src="js/index.js"></script>
    <!--/PhoneGap-->

    <script type="text/javascript">
      app.initialize();
    </script>

  </head>
```

PhoneGap Build



The image shows a browser window displaying the Adobe PhoneGap Build website. The browser's address bar shows the URL <https://build.phonegap.com>. The website's navigation bar includes links for Home, Plugins, Docs, Blog, FAQ, and Support, along with Sign in and Register options. The Adobe logo is visible in the top right corner. The main content area features a stylized illustration of a mobile phone on the left and the text "Adobe® PhoneGap™ Build" followed by "Package mobile apps in the cloud." and a "Get started!" button on the right. Below this, a white box contains the text "Take the pain out of developing mobile apps." and "Simply upload your HTML5, CSS, and JavaScript assets to the Adobe® PhoneGap™ Build cloud service and we do the work of compiling for you."

<https://build.phonegap.com/>

PhoneGap Build

The screenshot shows the Adobe PhoneGap Build website's registration page. The browser's address bar displays the URL <https://build.phonegap.com/plans/paid>. The navigation menu includes links for Home, Plugins, Docs, Blog, FAQ, and Support, along with Sign in and Register options. The Adobe logo is visible in the top right corner. The main content area is titled "Complete your registration" and features a "1. Create your account" step. Below this is a "Sign In" section with input fields for "Adobe ID (Email Address)" (containing "imyday@gmail.com") and "Password" (masked with dots). A "Create an Adobe ID" button is positioned to the right of the email field. At the bottom of the sign-in section, there is a "Stay signed in" checkbox and a "Trouble signing in?" link. A large blue "Sign In" button is located at the bottom right of the registration area. On the right side of the page, a "Paid Plan" section is visible, with a "change" link and details: "25 private apps", "unlimited open-source apps", and "unlimited collaborators".

Adobe PhoneGap Build

<https://build.phonegap.com/plans/paid>

Home Plugins Docs Blog FAQ Support Sign in Register

Complete your registration

1. Create your account

Sign In

Adobe ID (Email Address)

imyday@gmail.com

Create an Adobe ID

Password

••••••••

Stay signed in [Trouble signing in?](#)

Sign In

Paid Plan [change](#)

25 private apps
unlimited open-source apps
unlimited collaborators

PhoneGap Build

The screenshot shows the Adobe PhoneGap Build website. The browser address bar displays <https://build.phonegap.com/plans/free>. The navigation bar includes the Adobe logo (Bd), links for Apps, Plugins, Docs, Blog, FAQ, and Support, and a user profile icon. The main content area is titled "Create your account" and prompts the user to "Choose how you would like to sign in to PhoneGap Build." There are two primary sign-in options: "Adobe ID" and "Github". The Adobe ID option includes a sub-section stating: "Includes Adobe Creative Cloud free membership with 2GB of storage and access to Adobe Edge Tools & Services and more. [Learn more](#)". The Github option features the Github logo. To the right, a "Free Plan" card lists benefits: "1 private apps", "unlimited open-source apps", and "unlimited collaborators". A "change" link is visible next to the plan name. The footer contains a language selector set to "English", navigation links for Apps, Plugins, and Docs, a "Powered by Adobe* PhoneGap™" logo with a "Find out more" link, and copyright information: "Copyright © 2013 Adobe Systems Incorporated. All rights reserved." and "PhoneGap is a trademark of Adobe. You may not use PHONEGAP or GAP in the title of any application built using PhoneGap or the PhoneGap Build service." Links for "Terms of Use", "Privacy Policy" and "Cookies" are also present.

PhoneGap Build

The screenshot shows the Adobe PhoneGap Build web interface. The browser address bar displays <https://build.phonegap.com/apps/573842/builds>. The main interface includes a navigation bar with 'Bd Apps Plug', a sidebar with 'FAVORITES' (Dropbox, All My Files, Applications, Desktop, Documents, Downloads, Movies, Music, Pictures, imyday) and 'DEVICES' (iMyday's MacBook Pro, Macintosh HD). A file selection dialog is open, showing a file tree with 'app.zip' selected. The dialog also displays file details: Name: app.zip, Kind: Zip, Size: 2.4 MB, Created: 今天 上午05:51, Modified: 今天 上午05:51, Last opened: 今天 上午05:51. A 'New source' dialog is also visible, with a 'Choose File' button and the text: 'Please note this is a new source. We won't keep a copy of your old code.' The bottom of the interface shows a grid of device-specific actions, including 'Rebuild' and 'Error' buttons for various platforms like Android, BlackBerry, and iOS.



Update code



Rebuild all

New source

Choose File appzip

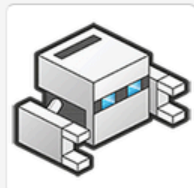
Please note this is a destructive action.
We won't keep a copy of your old code.

Cancel

Upload

Feedback

Your application has updated and a build has been queued



Myday Mobile App

Myday Mobile App for Prof. Min-Yuh Day, Department of Information Management, Tamkang University



Install

Update code Rebuild all

Builds Plugins Collaborators Settings

App ID	Version	PhoneGap	Owned by	Last built (18)	Source
573842	1.0.0	2.9.0	imyday@gmail.com	1 minute	zip package

ios	No key selected	Rebuild	Error	android	No key selected	Rebuild	apk
wp8		Rebuild	xap	blackberry	No key selected	Rebuild	OTA install
hp		Rebuild	ipk	ios		Rebuild	wgz



Install Myday Mobile App 1.0.0

Feedback

ANDROID

apk

BlackBerry

OTA install

symbian

wgz

webOS

ipk

Windows Phone

xap

Language:
English

Navigation
[Apps](#)
[Plugins](#)

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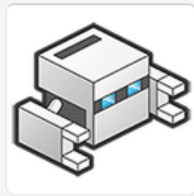
[Find out more](#)

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[Terms of Use](#) | [Privacy Policy and Cookies](#)

Your application has updated and a build has been queued



Myday Mobile App

Myday Mobile App for Prof. Min-Yuh Day, Department of Information Management, Tamkang University



Install

Update code Rebuild all

Builds Plugins Collaborators **Settings**

Basic

Source code

Choose File No file chosen Upload

Settings

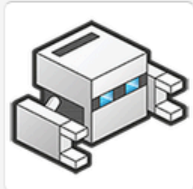
Enable debugging Enable Hydration Only approved collaborators (listed below) can download this app

Feedback

Configuration

Your application's details are bound to the `config.xml` file in your application package. To edit these details, change that file and push it back up to us.

icon file (.png)



No file chosen

app title

Myday Mobile App

package

com.imtku.smap.mydaymobileapp

version

1.0.0


Configuration

2.9.0 ▾

description

Myday Mobile App for Prof. Min-Yuh Day, Department of Information Management, Tamkang University

Feedback


 No file chosen

app title

package


version

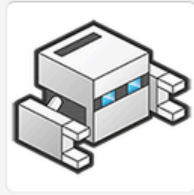
Configuration

description

Feedback

Danger Zone

 Delete this app



Myday Mobile App

Myday Mobile App for Prof. Min-Yuh Day, Department of Information Management, Tamkang University



Install

Update code Rebuild all

Builds Plugins Collaborators Settings

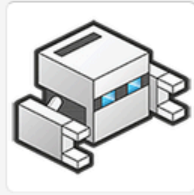
App ID	Version	PhoneGap	Owned by	Last built (18)	Source
573842	1.0.0	2.9.0	imyday@gmail.com	8 minutes	zip package

ios No key selected

No key selected

No key selected

Feedback



Myday Mobile App

Myday Mobile App for Prof. Min-Yuh Day, Department of Information Management, Tamkang University



Install

Update code Rebuild all

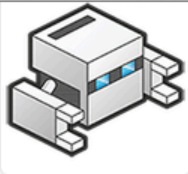
Feedback

Builds Plugins Collaborators Settings

App ID	Version	PhoneGap	Owned by	Last built (18)	Source
573842	1.0.0	2.9.0	imyday@gmail.com	8 minutes	zip package

options
No key selected
add a key ...

ios	Rebuild	Error	No key selected	Rebuild	apk
android	Rebuild	xap	No key selected	Rebuild	OTA install
hp	Rebuild	ipk		Rebuild	wgz



Myday Mobile App

Myday Mobile App for Prof. Min-Yuh Day, Department of Information Management, Tamkang University



Install

Update code Rebuild all

Builds Plugins Collaborators Settings

App ID	Version	PhoneGap	Owned by	Last built (18)	Source
573842	1.0.0	2.9.0	imyday@gmail.com	8 minutes	zip package

ios No key selected

Rebuild Error

android No key selected

Rebuild apk

Rebuild xap

wp7 No key selected

Rebuild OTA install

Rebuild ipk

ios

Rebuild wgz

title

certificate (p12) file

No file chosen

provisioning profile

No file chosen

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Find out more

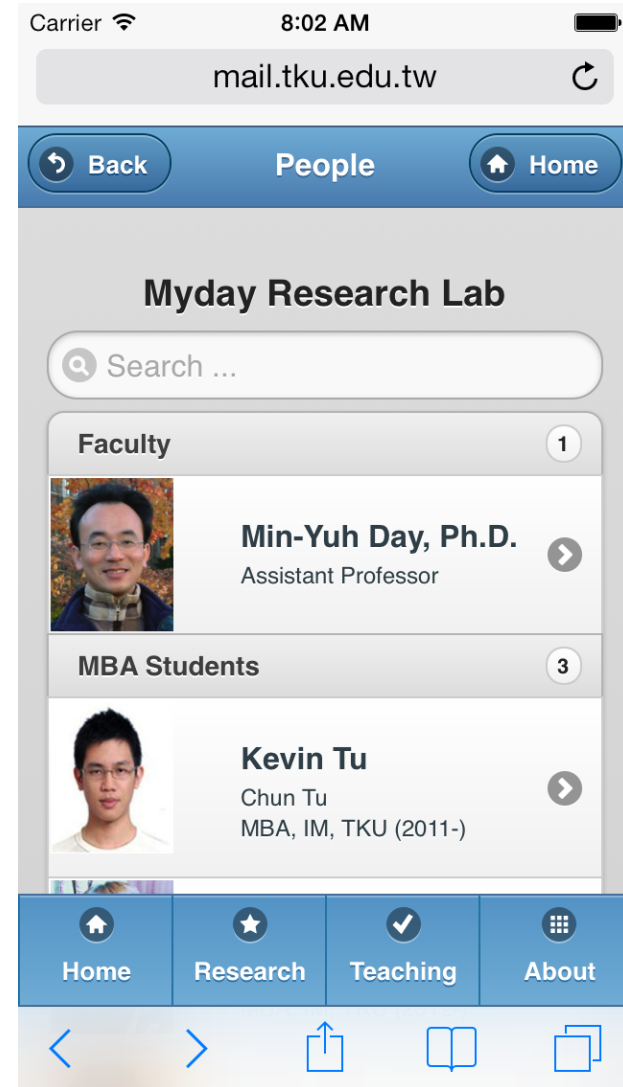
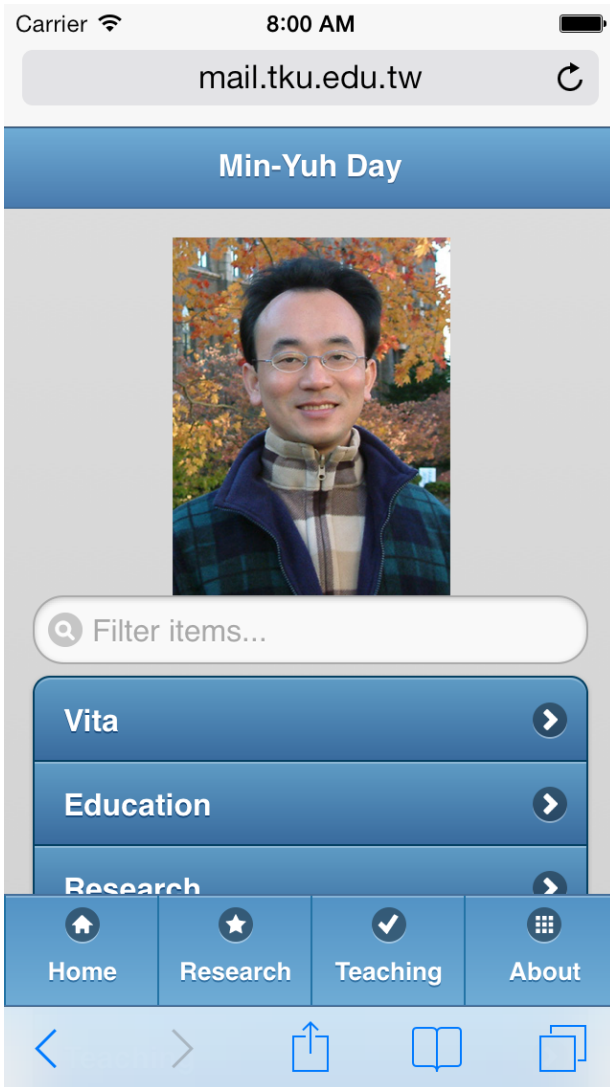
Copyright © 2013 Adobe Systems Incorporated. All rights reserved.

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[Terms of Use](#) | [Privacy Policy](#) | [Cookies](#)

Feedback

Myday Mobile App -> Hybrid App

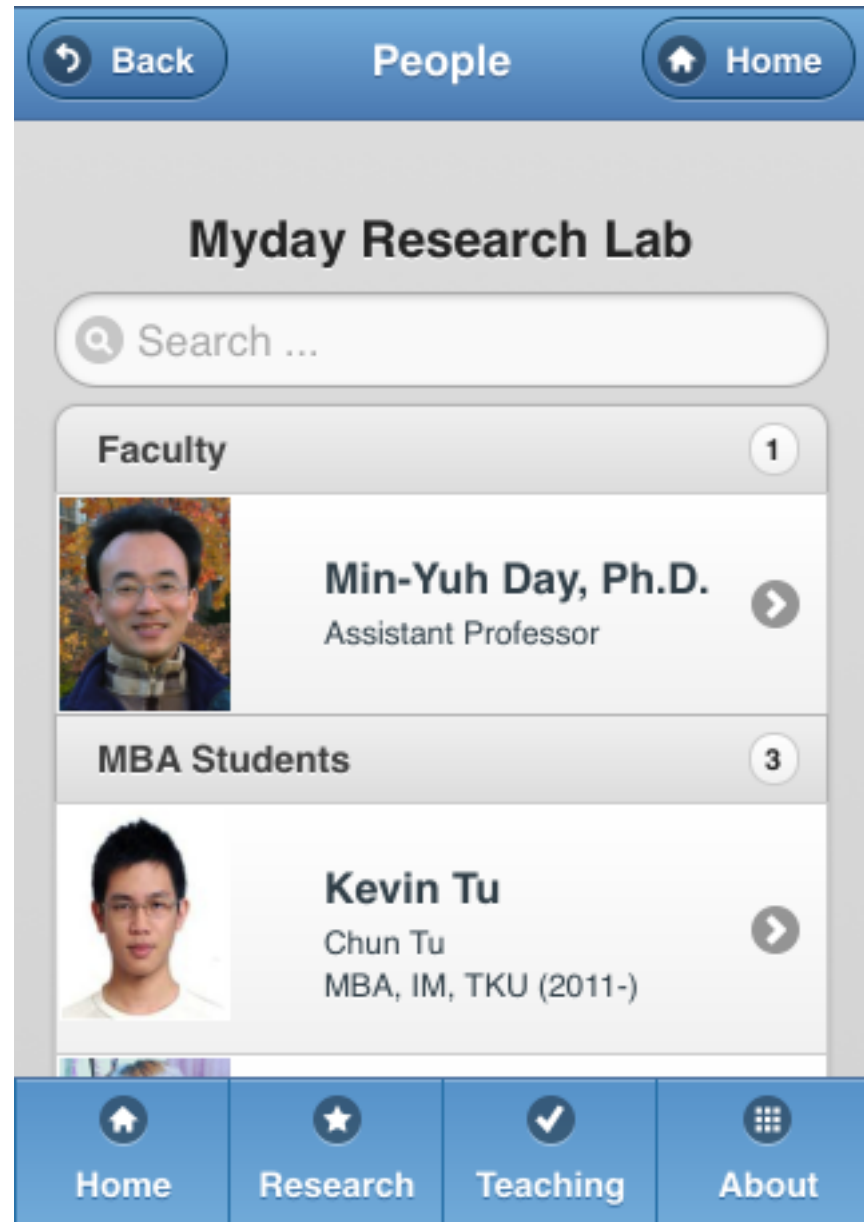
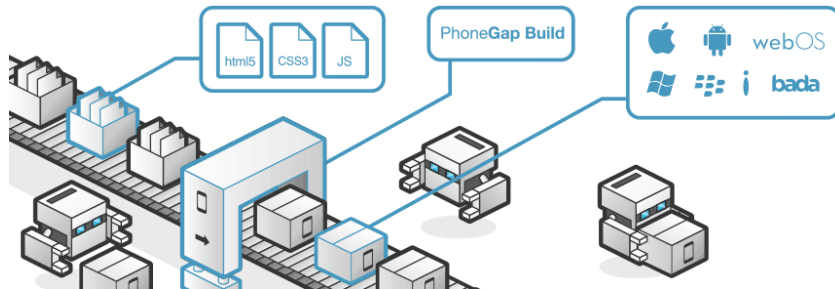
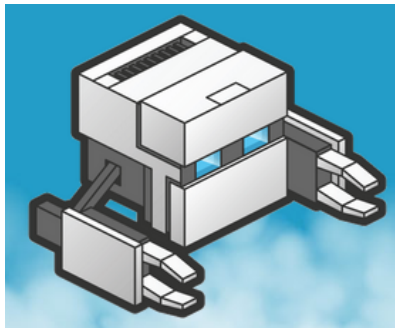


<http://mail.tku.edu.tw/myday/m>



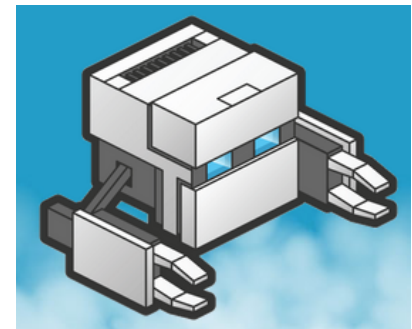
<http://mail.tku.edu.tw/myday/app/>

Create Hybrid Apps with PhoneGap



Summary

- PhoneGap
 - PhoneGap
 - PhoneGap Build
 - index.html, css, js
 - config.xml
 - PhoneGap, jQuery Mobile
- Demo
 - Create Hybrid Apps with PhoneGap



References

- Beginning PhoneGap: Mobile Web Framework for JavaScript and HTML5, Rohit Ghatol & Yogesh Patel, Apress, 2012
- Learn HTML5 and JavaScript for iOS: Web Standards-based Apps for iPhone, iPad, and iPod touch, Scott Preston, Apress, 2012
- PhoneGap
 - <http://phonegap.com/>
- PhoneGap Build
 - <https://build.phonegap.com/>
- jQuery Mobile
 - <http://jquerymobile.com/>
- Introduction to PhoneGap Build
 - <http://tv.adobe.com/watch/building-mobile-apps-with-phonegap-build/introduction-to-phonegap-build-building-your-first-app/>