



# Social Media Apps Programming

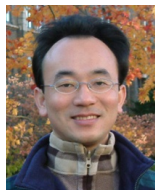
## Create Hybrid Apps with PhoneGap

1021SMAP07

TLMXM1A (8687) (M2143) (Fall 2013)

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

Thu 9,10 (16:10-18:00) V201



Min-Yuh Day, Ph.D.

Assistant Professor

Department of Information Management

Tamkang University

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



# Course Schedule (1/3)

- | Week | Date       | Subject/Topics  |
|------|------------|---|
| • 1  | 2013/09/19 | Mid-Autumn Festival (Day off)   |
| • 2  | 2013/09/26 | Course Orientation and Introduction to Social Media and Mobile Apps Programming |
| • 3  | 2013/10/03 | Introduction to Android / iOS Apps Programming                                  |
| • 4  | 2013/10/10 | Double Tenth Day (Day off)  |
| • 5  | 2013/10/17 | Developing Android Native Apps with Java (Eclipse) (MIT App Inventor)           |
| • 6  | 2013/10/24 | Developing iPhone / iPad Native Apps with Objective-C (Xcode)                   |

# Course Schedule (2/3)

Week Date Subject/Topics

- 7 2013/10/31 Mobile Apps using HTML5/CSS3/JavaScript
- 8 2013/11/07 jQuery Mobile
- 9 2013/11/14 Create Hybrid Apps with PhoneGap
- 10 2013/11/21 Midterm Exam Week (Midterm Project Report)
- 11 2013/11/28 jQuery Mobile/Phonegap
- 12 2013/12/05 Invited Talk:  
Social, Mobile and Business Model in PIXNET  
[Invited Speaker: Dr. Rick Cheng-Yu Lu]

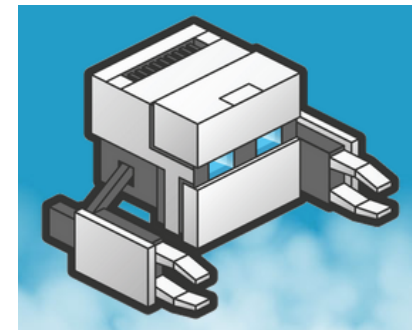
# Course Schedule (3/3)

Week	Date	Subject/Topics
• 13	2013/12/12	Google App Engine and Google Map API
• 14	2013/12/19	Facebook API (Facebook JavaScript SDK) (Integrate Facebook with iOS/Android Apps)
• 15	2013/12/26	Twitter API
• 16	2014/01/02	Case Study on Social Media Apps Programming and Marketing in Google Play and App Store
• 17	2014/01/09	Final Project Presentation
• 18	2014/01/16	Final Exam Week (Final Project Report)



# Outline

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



# Android /iOS Apps Programming

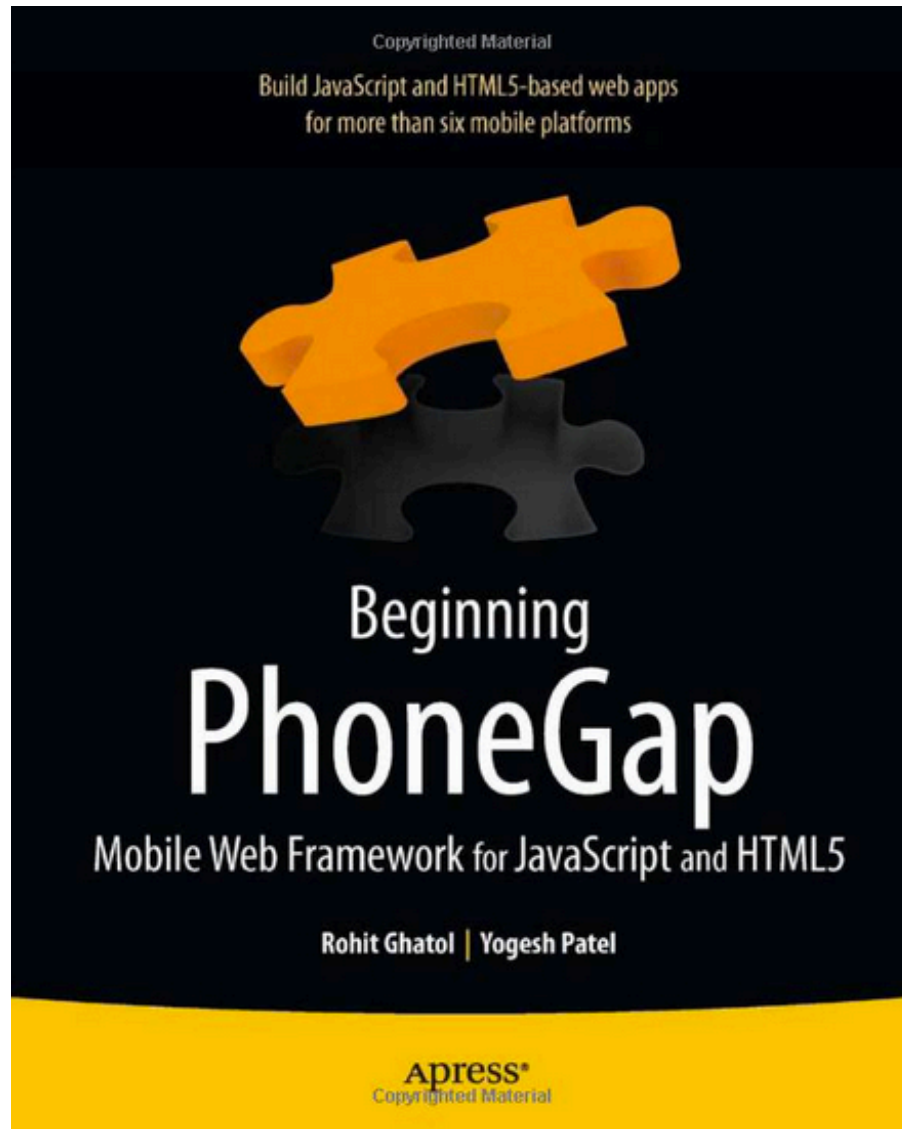
Native Apps

Hybrid Apps

Mobile Web Apps

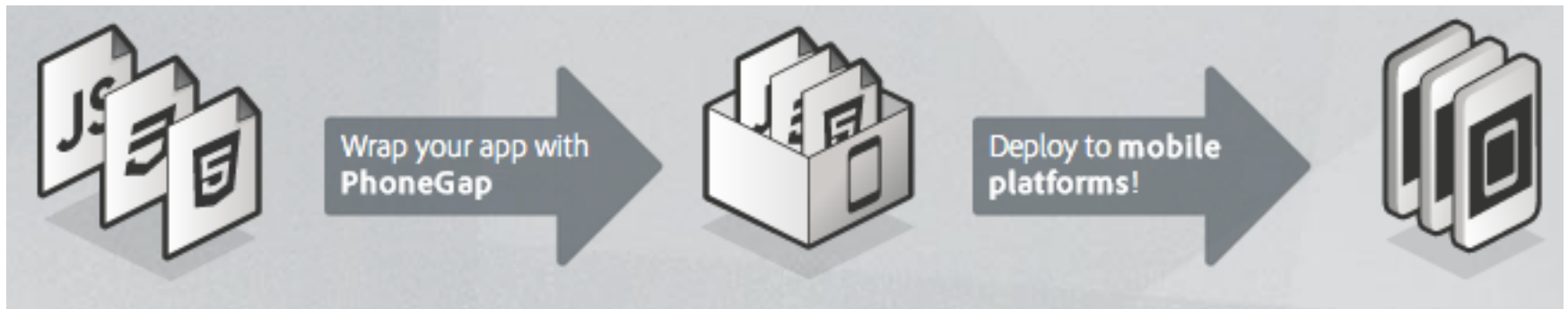


# Beginning PhoneGap: Mobile Web Framework for JavaScript and HTML5, Rohit Ghatol & Yogesh Patel, Apress, 2012



# 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**

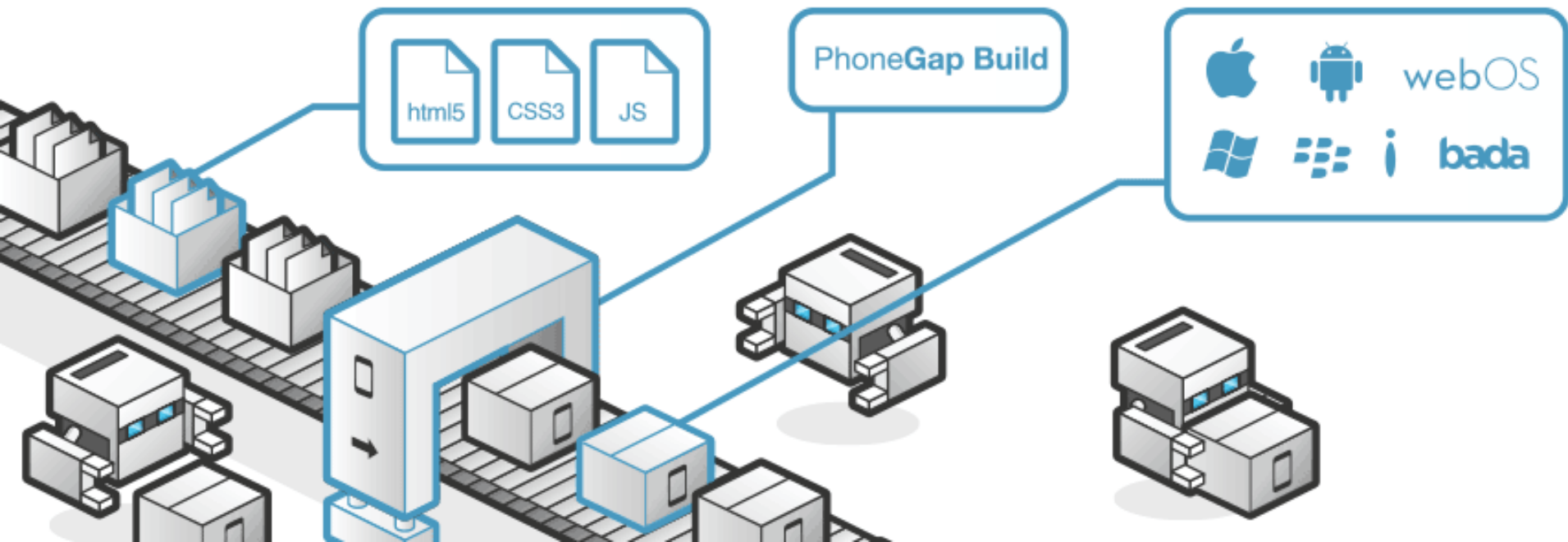
PhoneGap Build takes the pain out of compiling PhoneGap apps. Get app-store ready apps without the headache of maintaining native SDKs. Our PhoneGap Build service does the work for you by compiling in the cloud.

Apple Android Windows BlackBerry i bada webOS

Try it now! ► Find out more ►

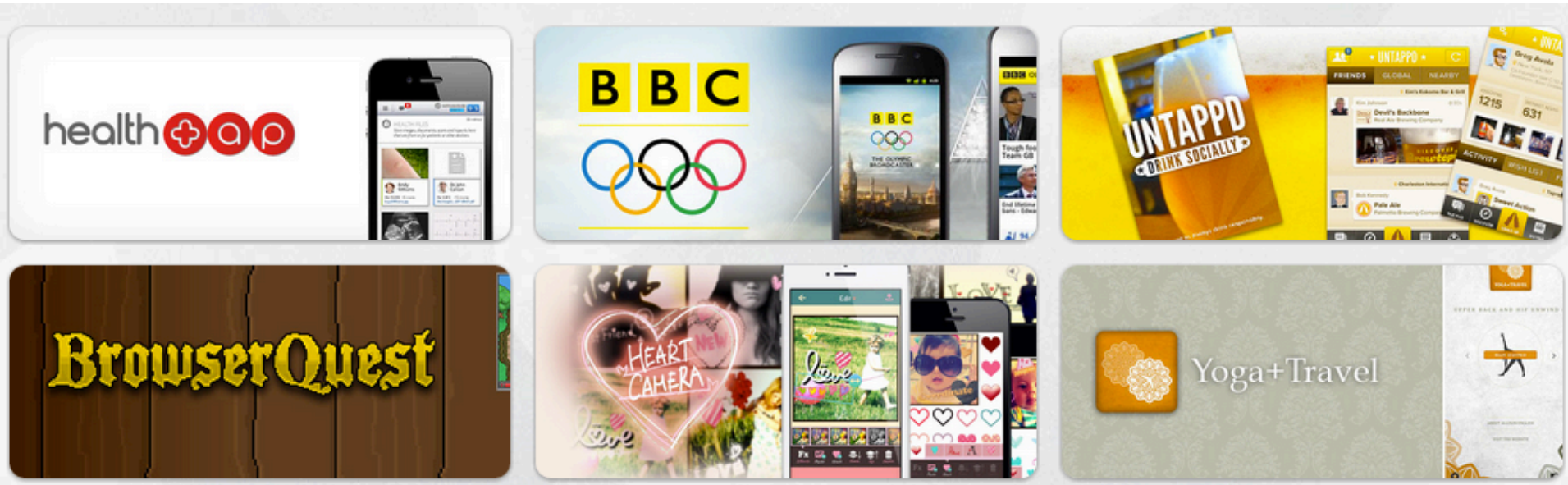
The advertisement features a blue background with a white server rack icon on the left. The text is white and blue. At the bottom, there are two buttons: a blue 'Try it now!' button and a white 'Find out more' button with a right-pointing arrow. The logos for various mobile operating systems are displayed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

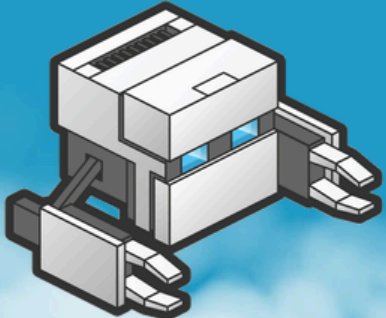
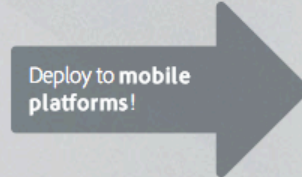
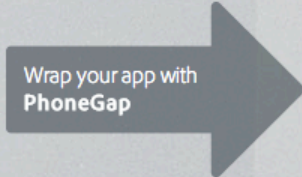
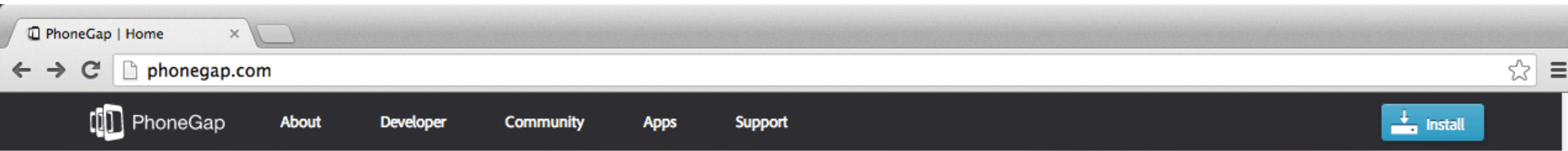
Install PhoneGap ▶ Getting Started Guides ▶

Watch Intro

Wrap your app with PhoneGap






Deploy to mobile platforms!

# 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

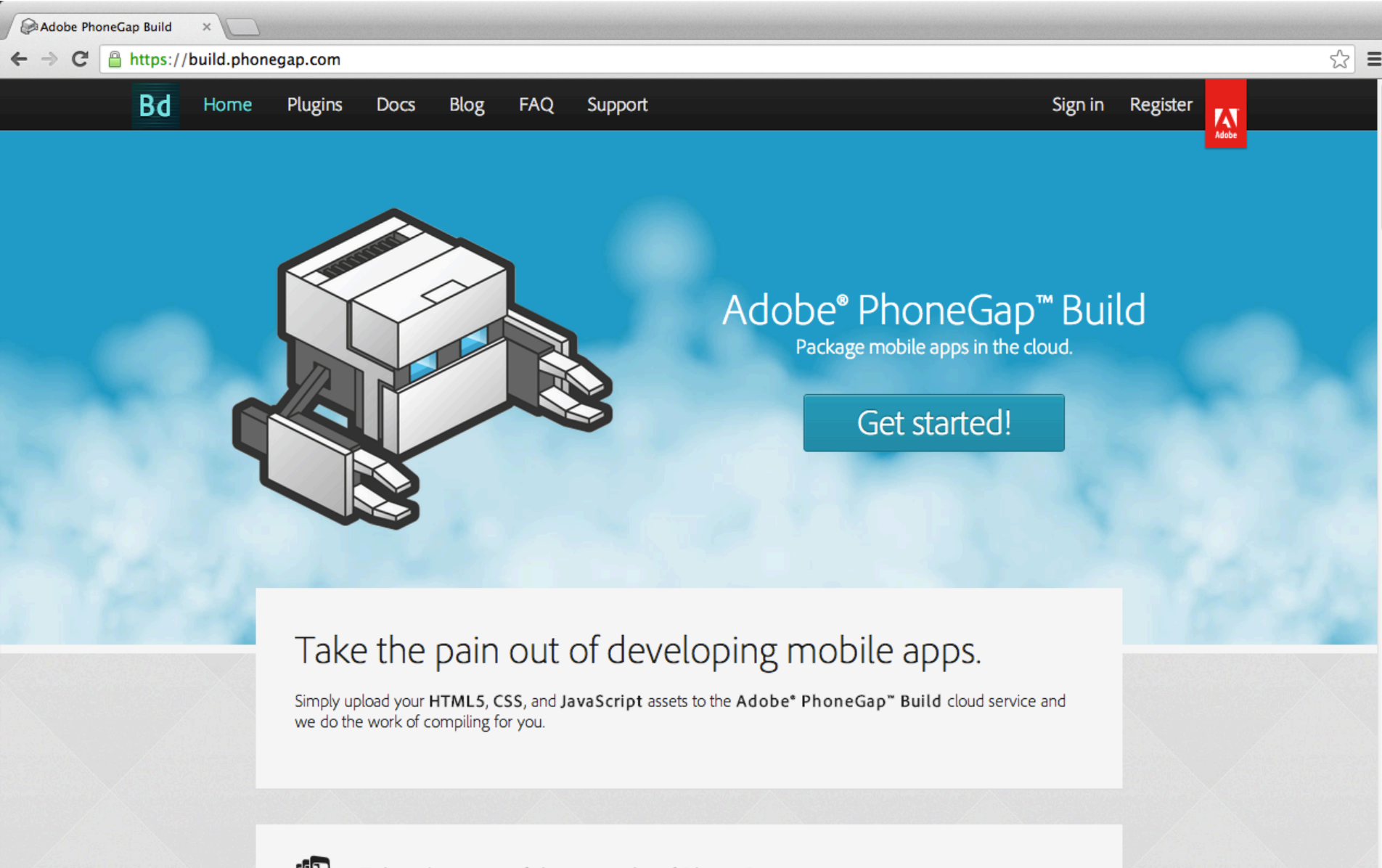


## Choose your plan

	Free Plan	Paid Plan	Adobe Creative Cloud Membership <span>?</span>
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 <span>?</span>	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 illustration, 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 white text box below the main content area 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

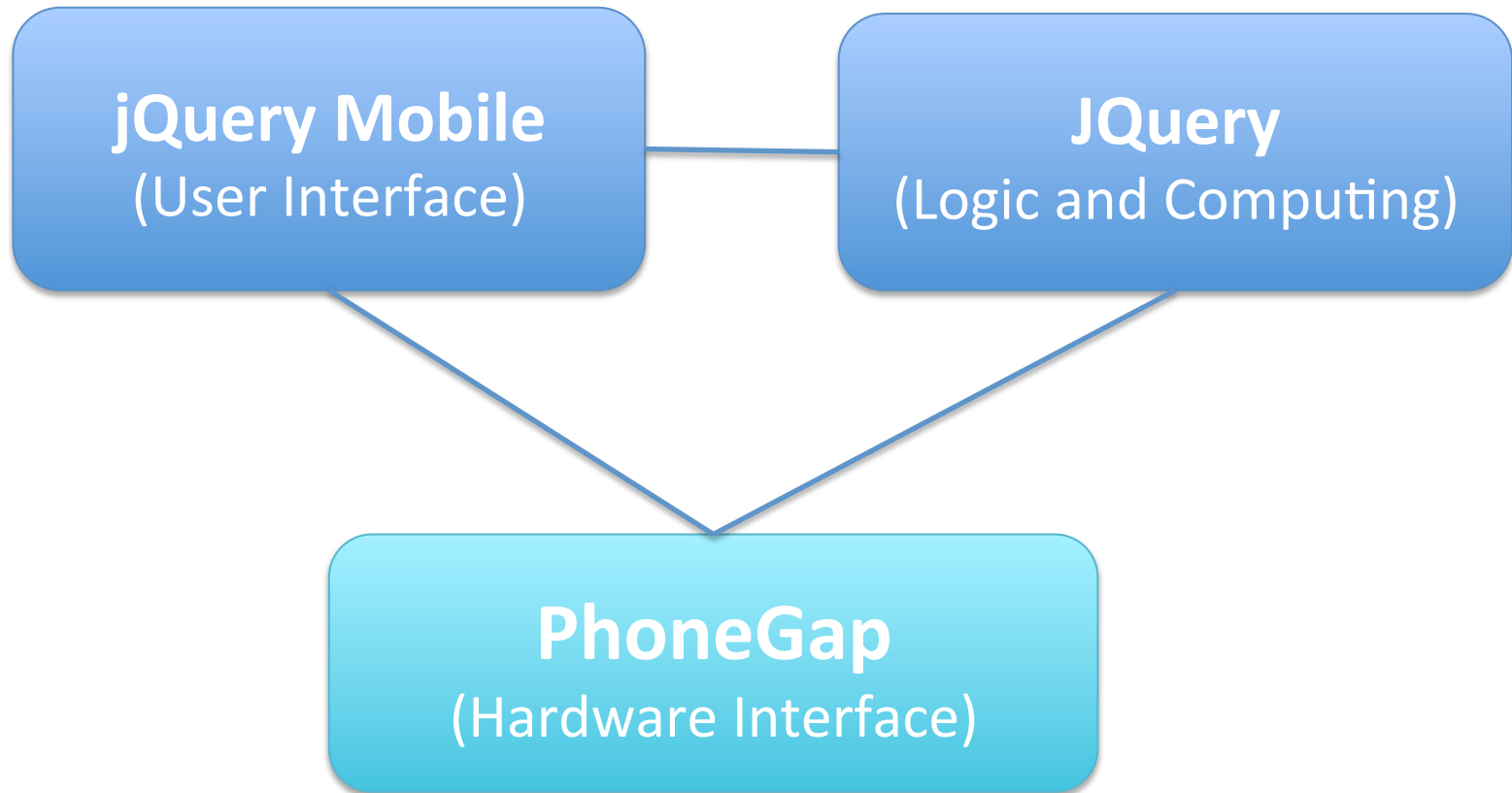
- PhoneGap
  - a **mobile application development framework**, based upon the **open source Apache Cordova project**.
  - write an app once with HTML, CSS and JavaScript, and then deploy it to a wide range of mobile devices without losing the features of a **native app**.
- PhoneGap Build
  - a **cloud-based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

# Public Apps vs. Private Apps

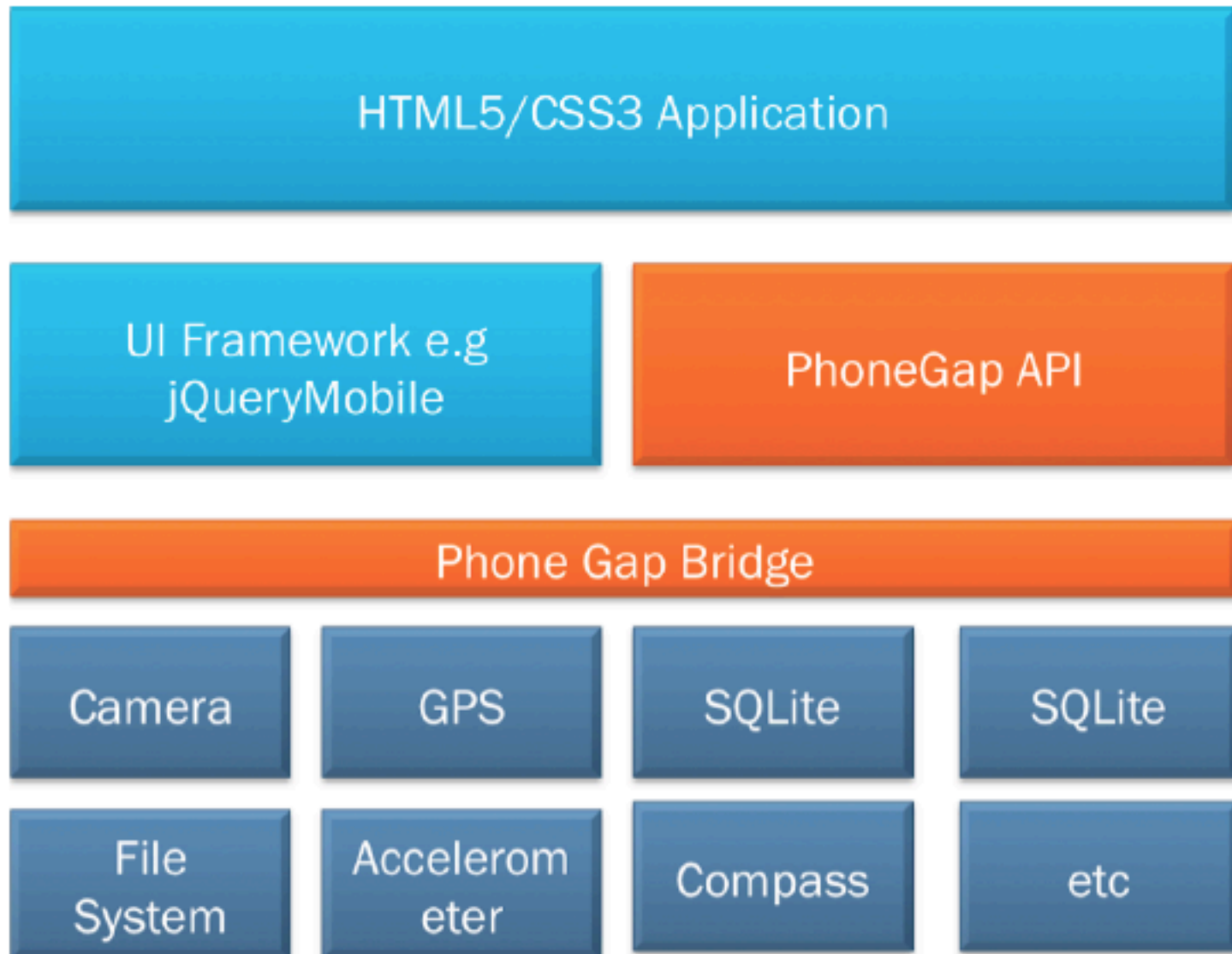
- Public apps
  - source code hosted in a publicly accessible **GitHub repository**.
- Private apps
  - source code hosted in a **private** (non-publicly accessible) **GitHub repository**
  - uploads a **ZIP file** containing the source code and assets to the PhoneGap Build service.

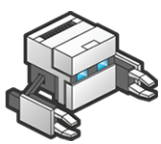


# PhoneGap, jQuery Mobile, jQuery



# PhoneGap App Architecture





# Install PhoneGap

PhoneGap | Install PhoneG x

phonegap.com/install/

PhoneGap About Developer Community Apps Support **Install**

## Install PhoneGap

**Install** To Install 3.1: 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**

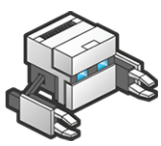
```
$ phonegap create my-app  
$ cd my-app  
$ phonegap run android
```

Learn more at [docs.phonegap.com](http://docs.phonegap.com)

### Archives

<b>PhoneGap 2.9.1</b> Released 05 Nov 2013	<b>PhoneGap 2.9.0</b> Released 26 Jun 2013	<b>PhoneGap 2.8.1</b> Released 12 Jun 2013
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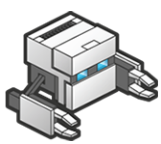
<http://phonegap.com/install/>



# 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
```



# PhoneGap 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
```

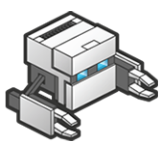
```
$ phonegap run android
```

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

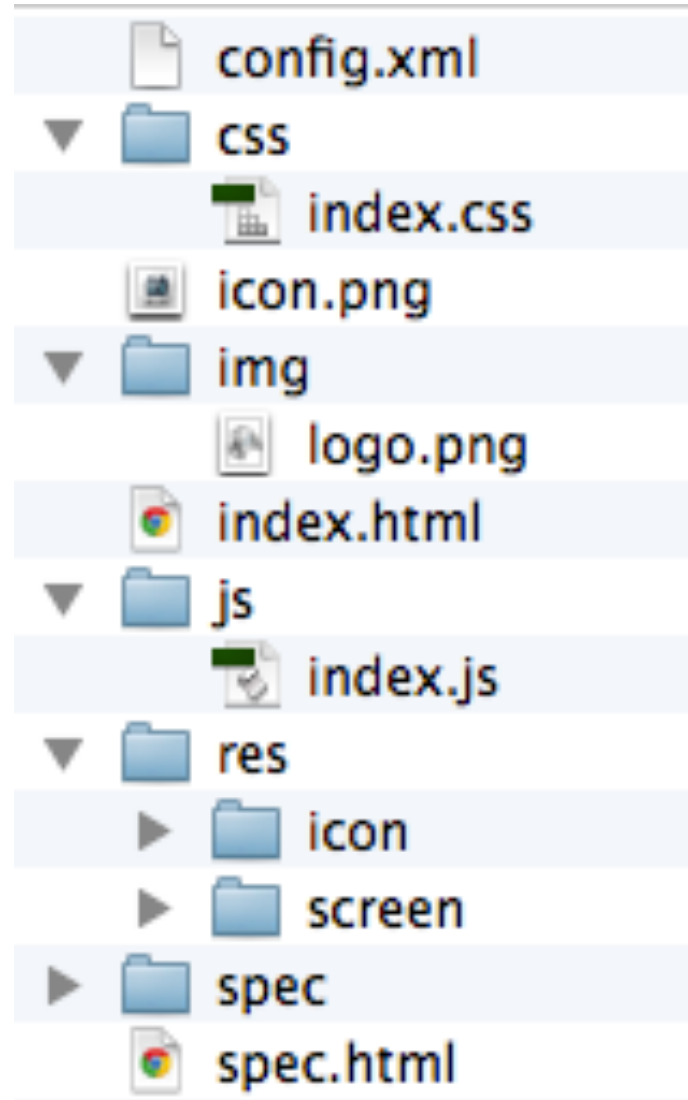
```
[phonegap] using the remote environment
```

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

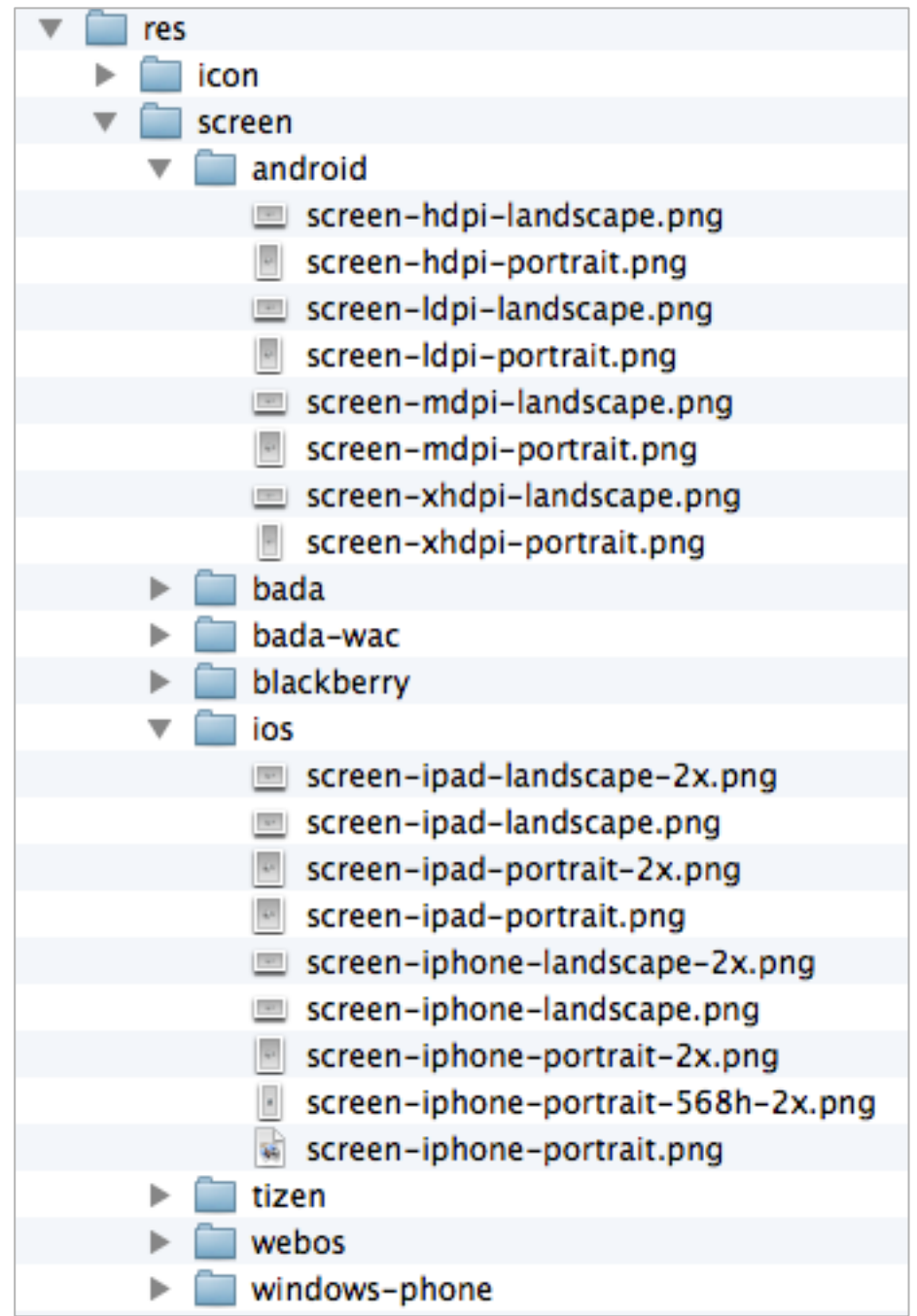
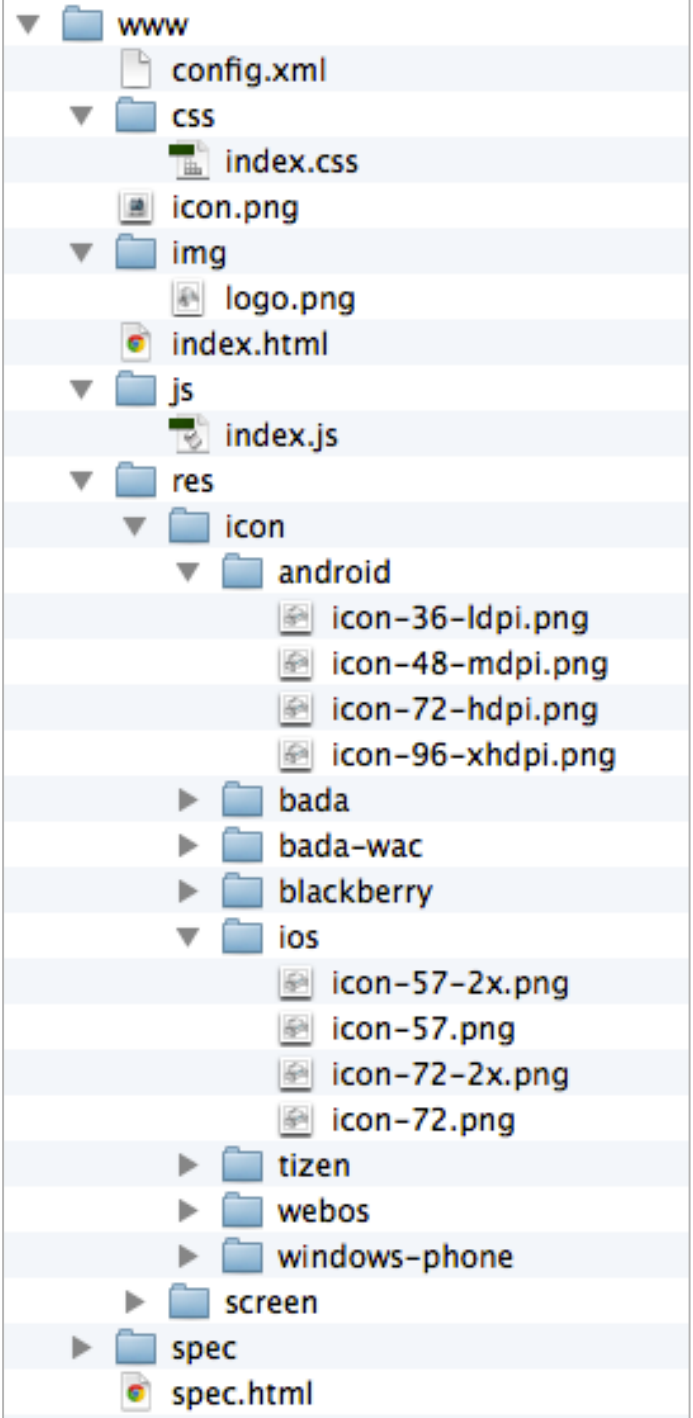
```
[phonegap] uploading the app...
```

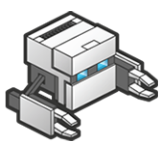


# myapp/www/

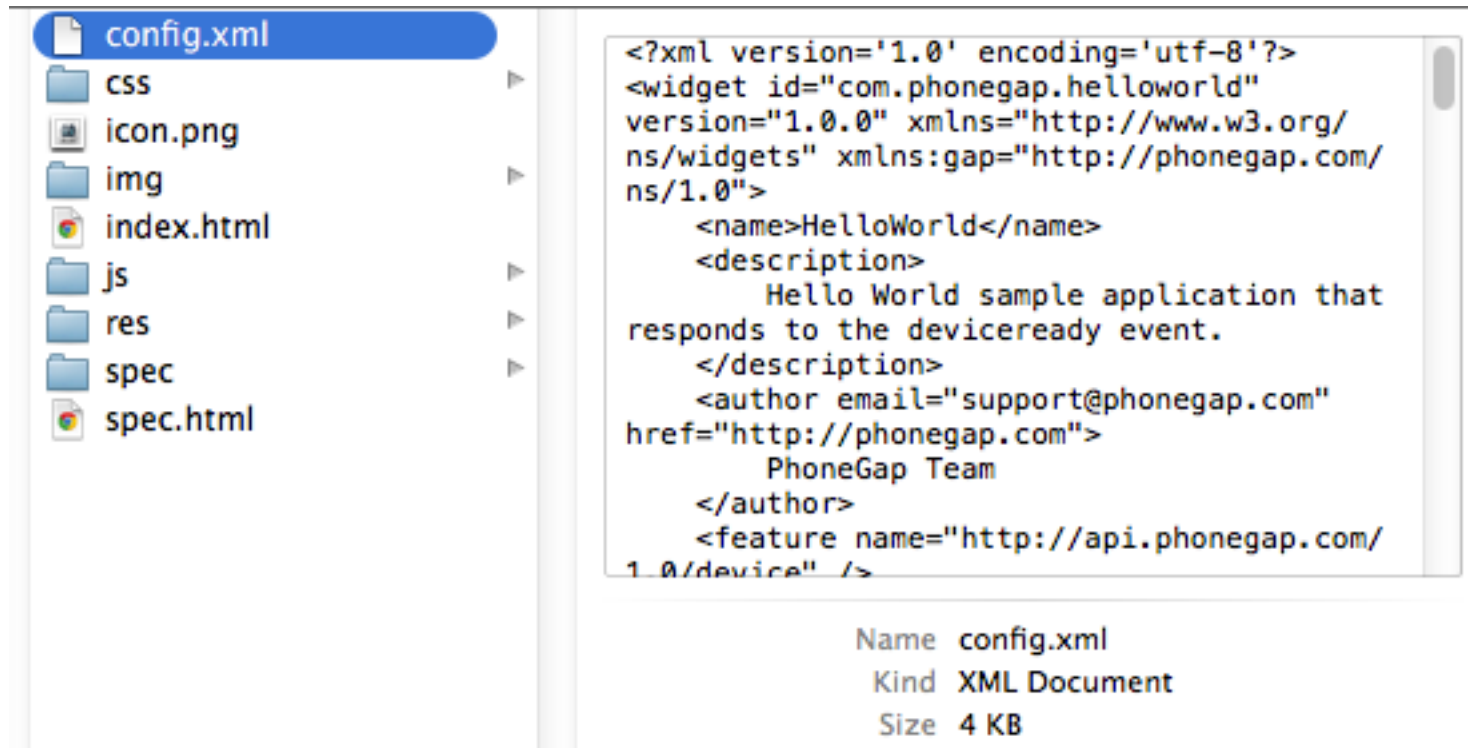


myapp/  
www/





# PhoneGap config.xml



The screenshot shows a file explorer interface with a file tree on the left and a code editor on the right. The file tree includes folders for 'css', 'img', 'js', 'res', and 'spec', and files for 'icon.png', 'index.html', and 'spec.html'. The 'config.xml' file is selected and highlighted in blue. The code editor displays the XML content of 'config.xml', which defines a widget with the ID 'com.phonegap.helloworld' and includes a description, author information, and a feature declaration.

```
<?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" />
</widget>
```

Name config.xml  
Kind XML Document  
Size 4 KB

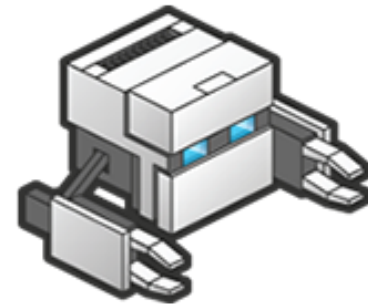


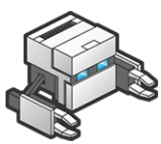
```

<?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" />
  <icon gap:density="xhdpi" gap:platform="android" src="res/icon/android/icon-96-xhdpi.png" />
  <icon gap:platform="blackberry" src="res/icon/blackberry/icon-80.png" />
  <icon gap:platform="blackberry" gap:state="hover" src="res/icon/blackberry/icon-80.png" />
  <icon gap:platform="ios" height="57" src="res/icon/ios/icon-57.png" width="57" />
  <icon gap:platform="ios" height="72" src="res/icon/ios/icon-72.png" width="72" />
  <icon gap:platform="ios" height="114" src="res/icon/ios/icon-57-2x.png" width="114" />
  <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

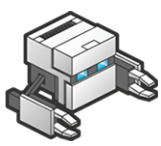




# config.xml (part 1/3)

widget id, version,  
name, description, author

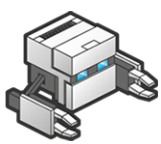
```
<?xml version='1.0' encoding='utf-8'?>
<widget
  id="com.phonegap.helloworld"
  version="1.0.0"
  xmlns="http://www.w3.org/ns/widgets"
  xmlns:gap="http://phonegap.com/ns/1.0">
  <name>HelloWorld</name>
  <description>
    Hello World sample application
  </description>
  <author email="support@phonegap.com" 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

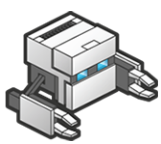
```
<feature name="http://api.phonegap.com/1.0/device" />
<preference name="permissions" value="none" />
<preference name="orientation" value="default" />
<preference name="target-device" value="universal" />
<preference name="fullscreen" value="true" />
<preference name="webviewbounce" value="true" />
<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" />
<b>icon src="icon.png" />
```



# config.xml (part 3/3)

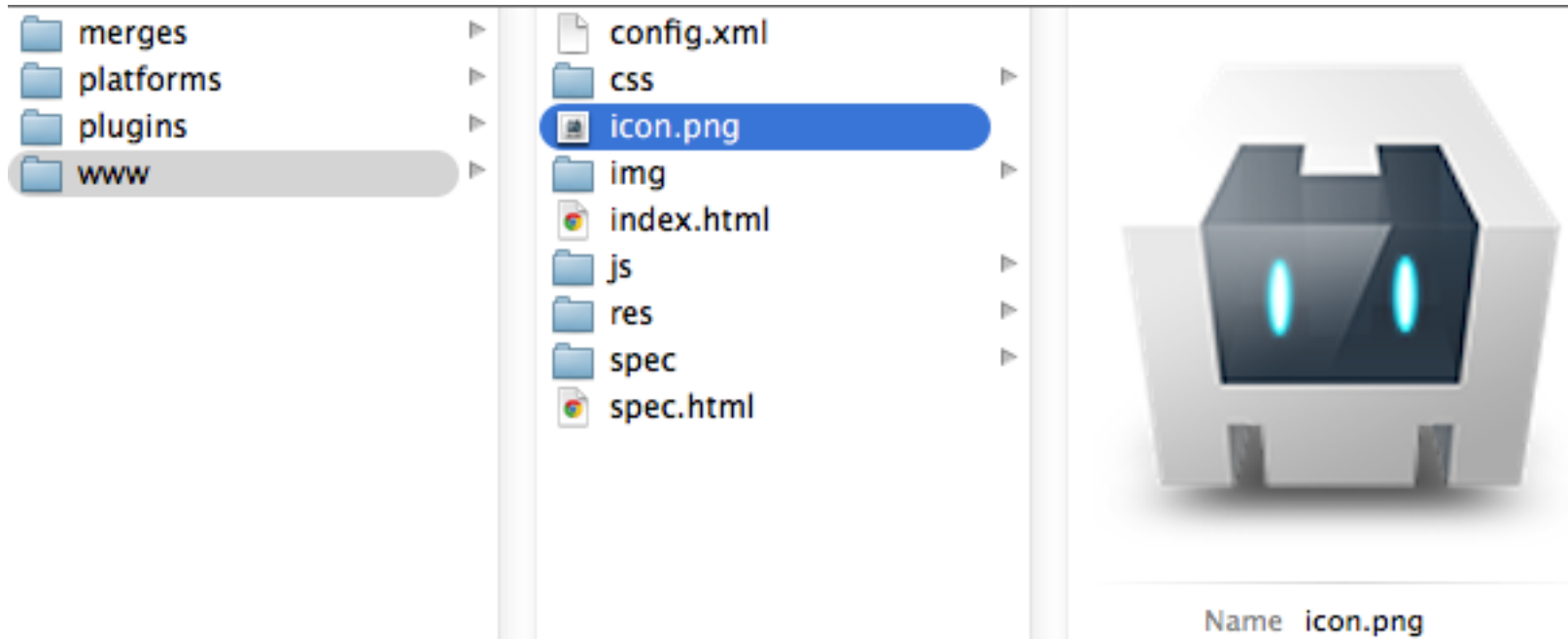
## gap:splash

```
<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*" />
</widget>
```

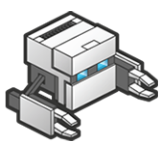


# icon.png

(128x128)

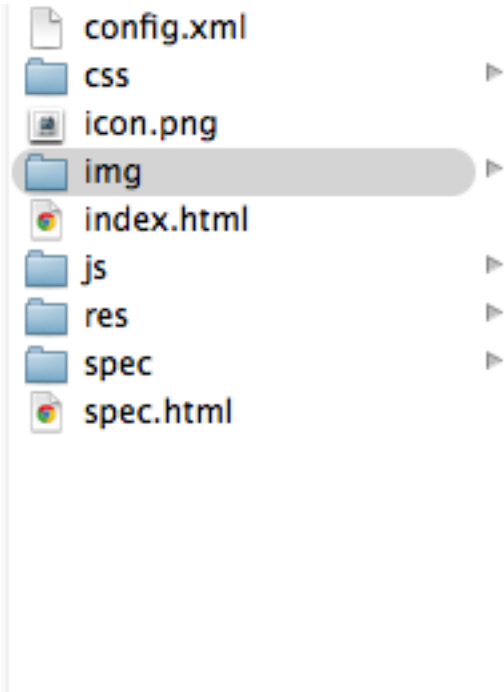


```
<icon src="icon.png" />
```

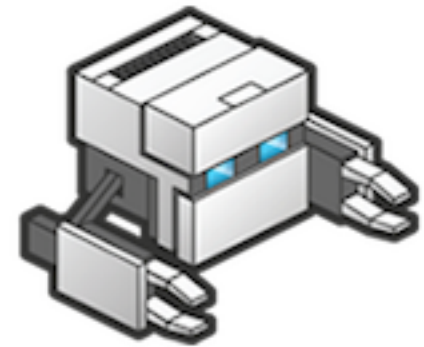


# logo.png

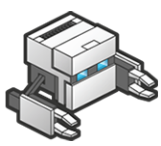
(172x200)



logo.png

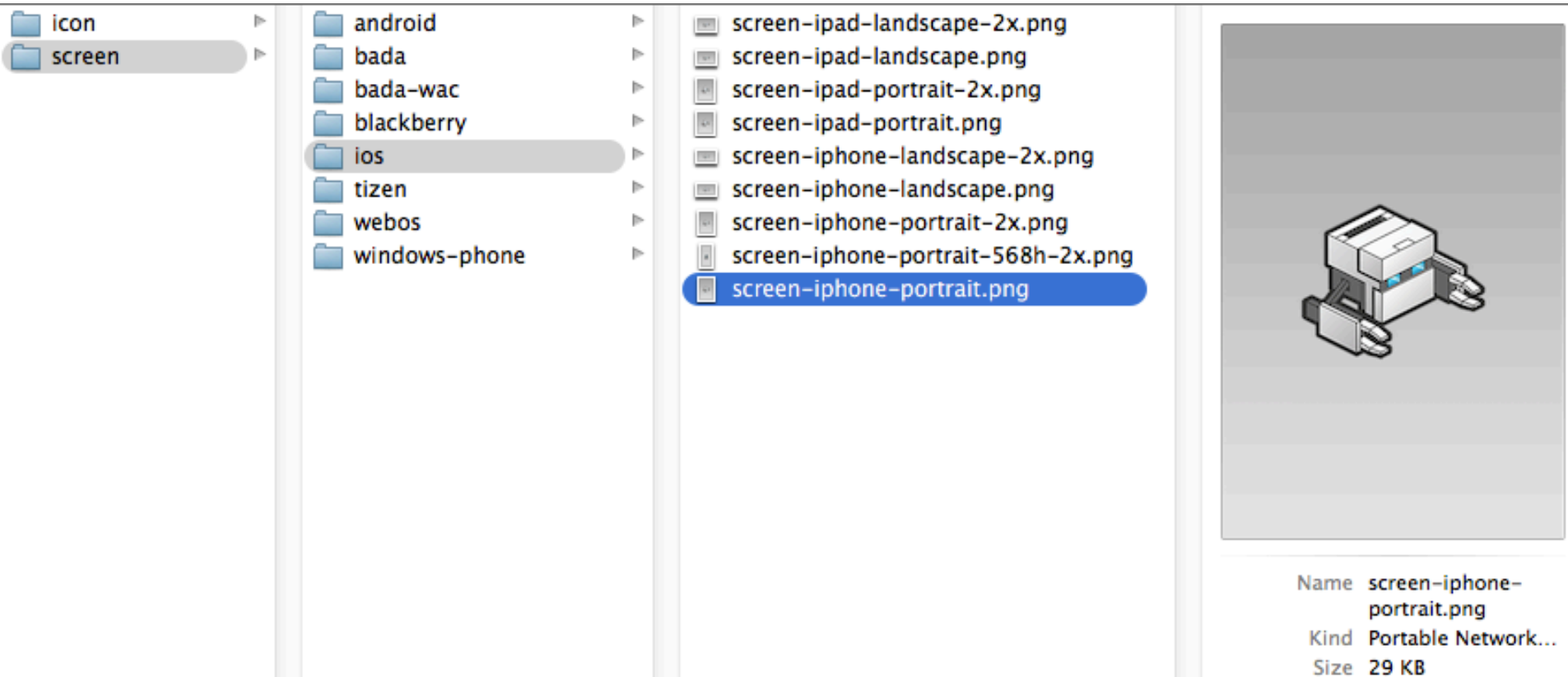


Name logo.png  
Kind Portable Network...  
Size 30 KB

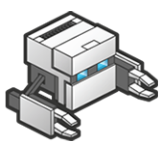


# screen-iphone-landscape.png

## (320x480)



```
<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 Android Studio file explorer. 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. A preview of the image is also visible, showing a printer icon on a gray background.

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



# Generate icon online

Quirco [Quirco - iPhone So x]

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

*quirco*

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**View Generated Icon**

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[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](#)

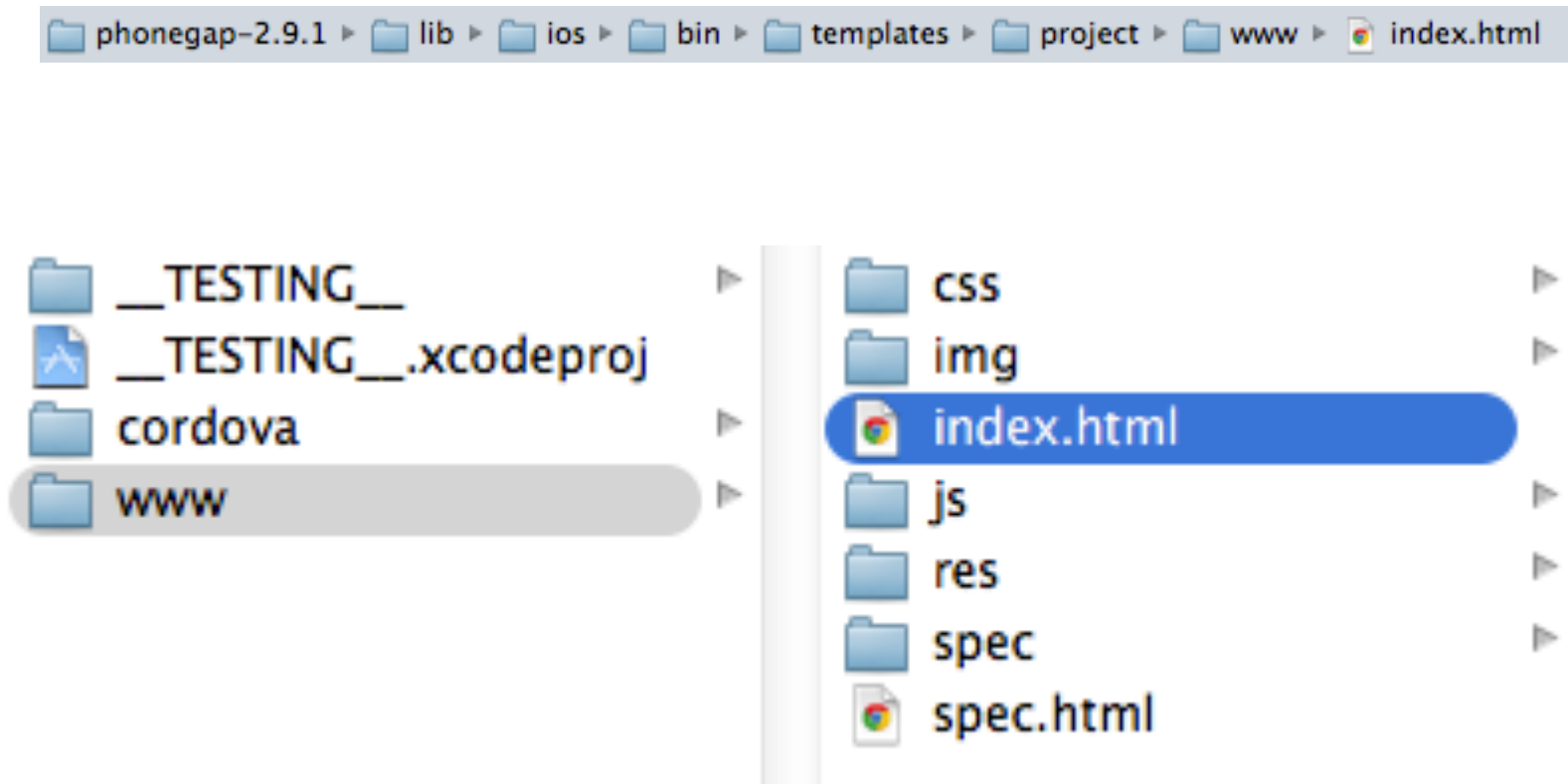


**114x114 (iPhone 4, iPhone 5 and iPad 3)** [download](#)



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

# phonegap-2.9.1/lib/ios/bin/templates/ project/www/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

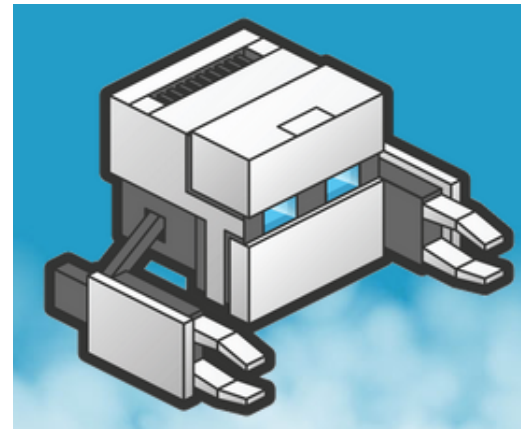
### Popup

Remove: Sometimes pass position data through to request for position handling

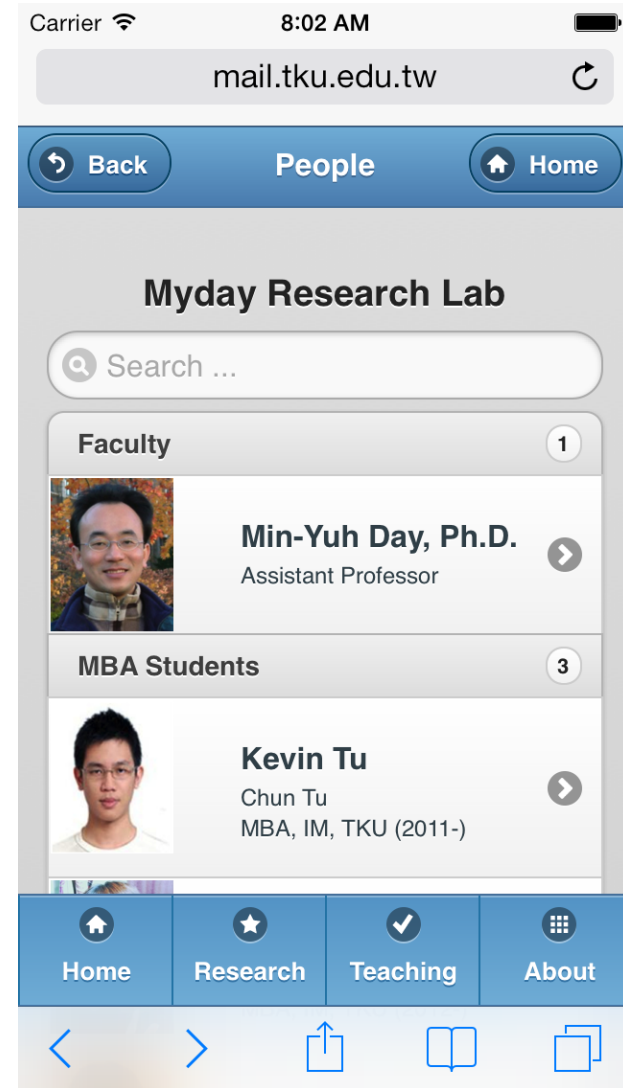
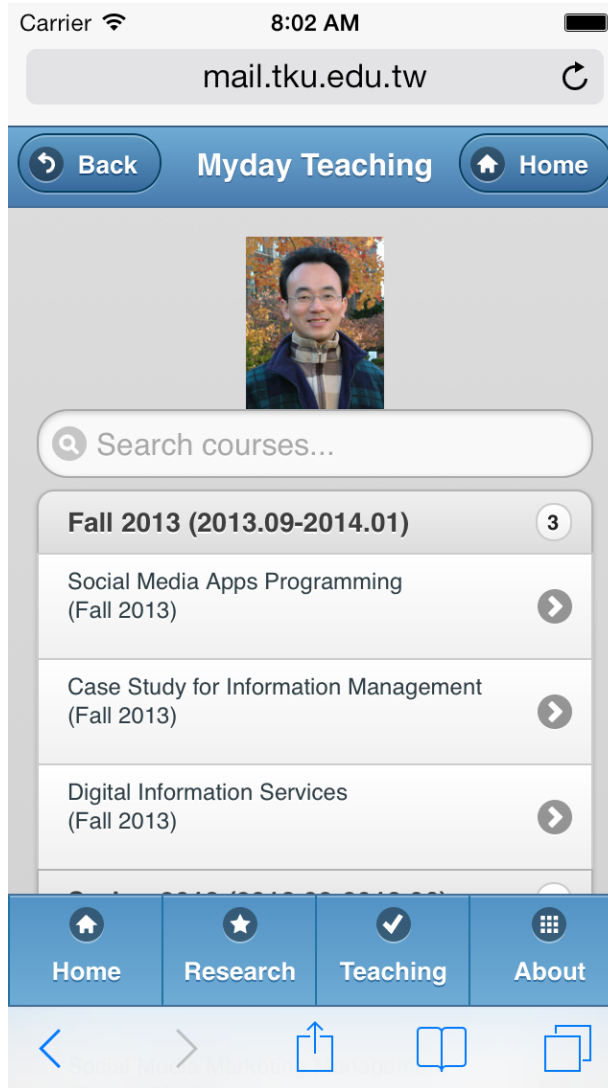
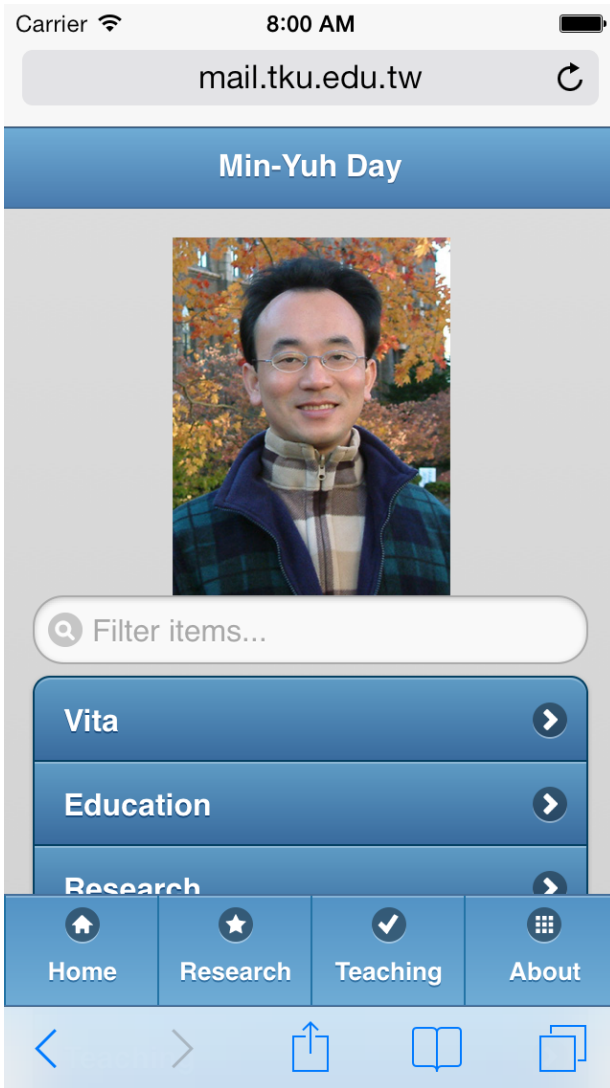
# Demo

## Create Hybrid Apps with PhoneGap

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



# Myday Mobile App -> Hybrid App

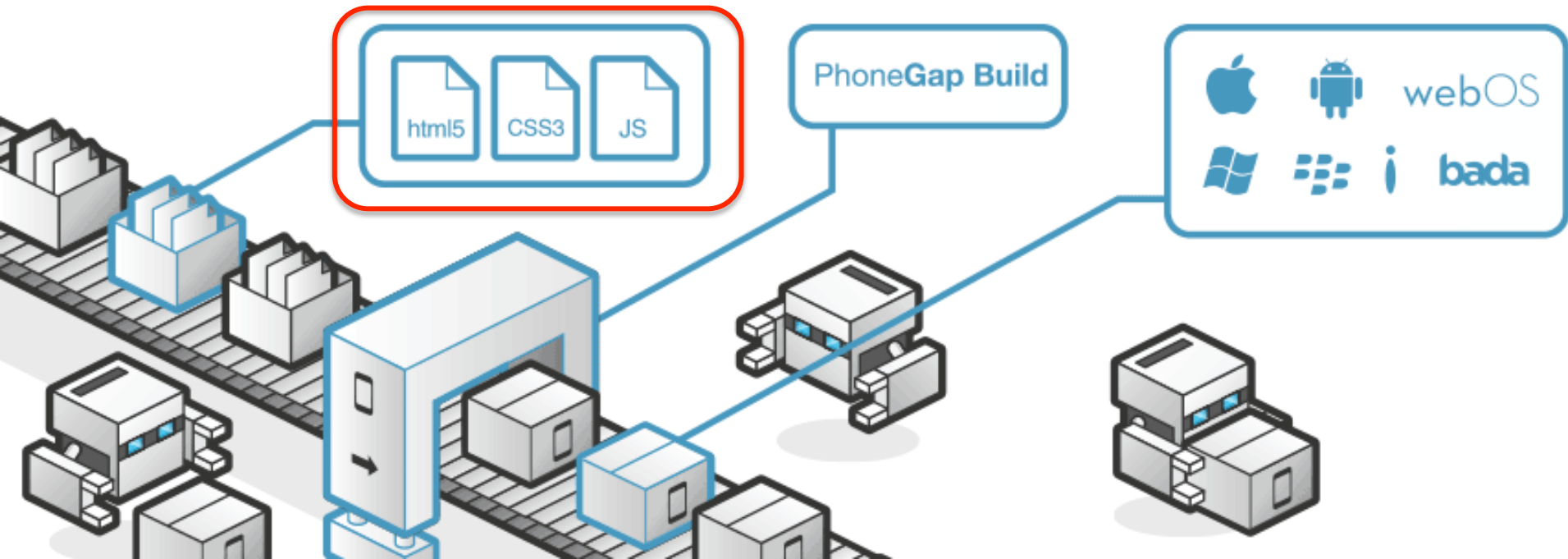


<http://mail.tku.edu.tw/myday/m>

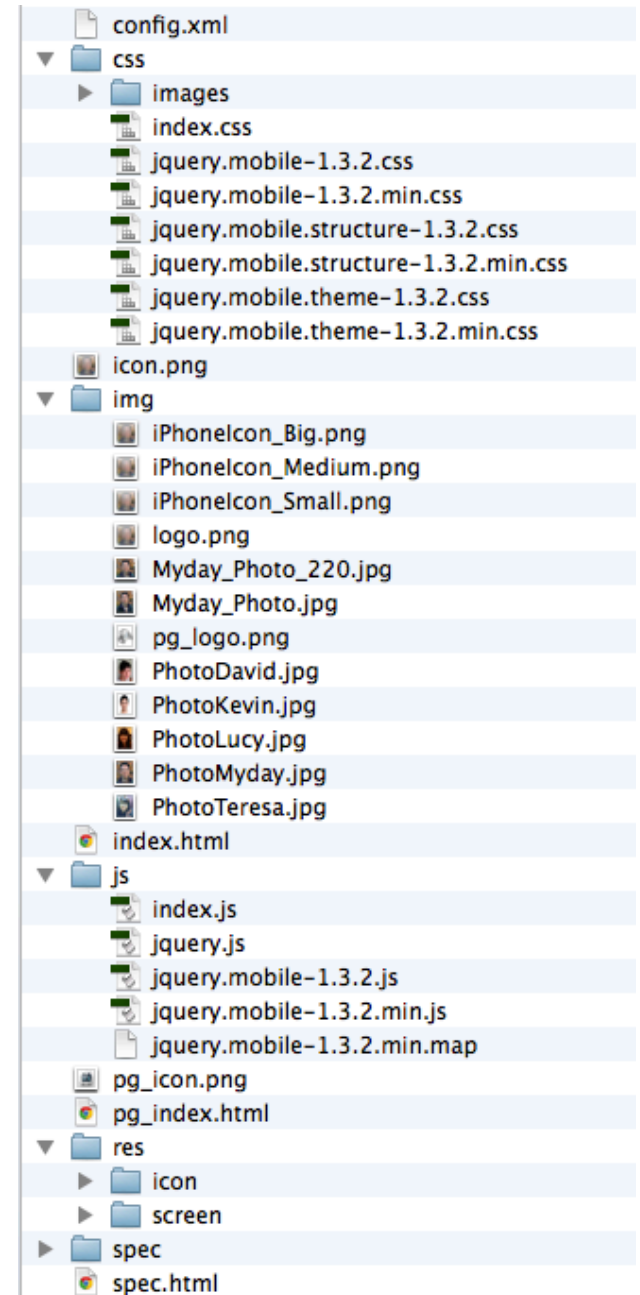
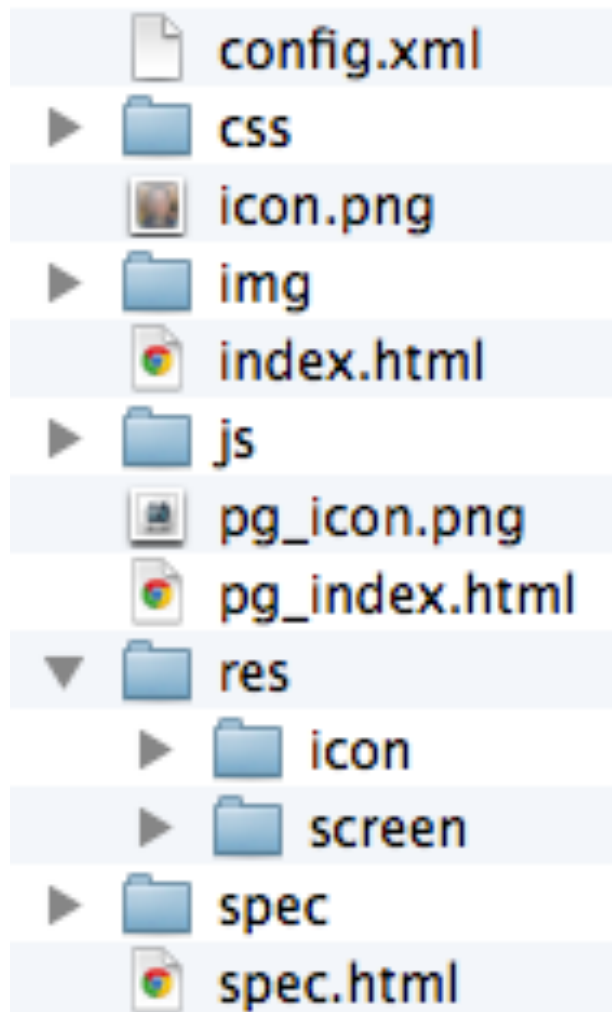


<http://mail.tku.edu.tw/myday/app/>

# PhoneGap Build



# app.zip



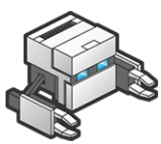


# config.xml

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

PhoneGap | Install PhoneG x

phonegap.com/install/

PhoneGap About Developer Community Apps Support **Install**

## Install PhoneGap

**Install** To Install 3.1: 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
```

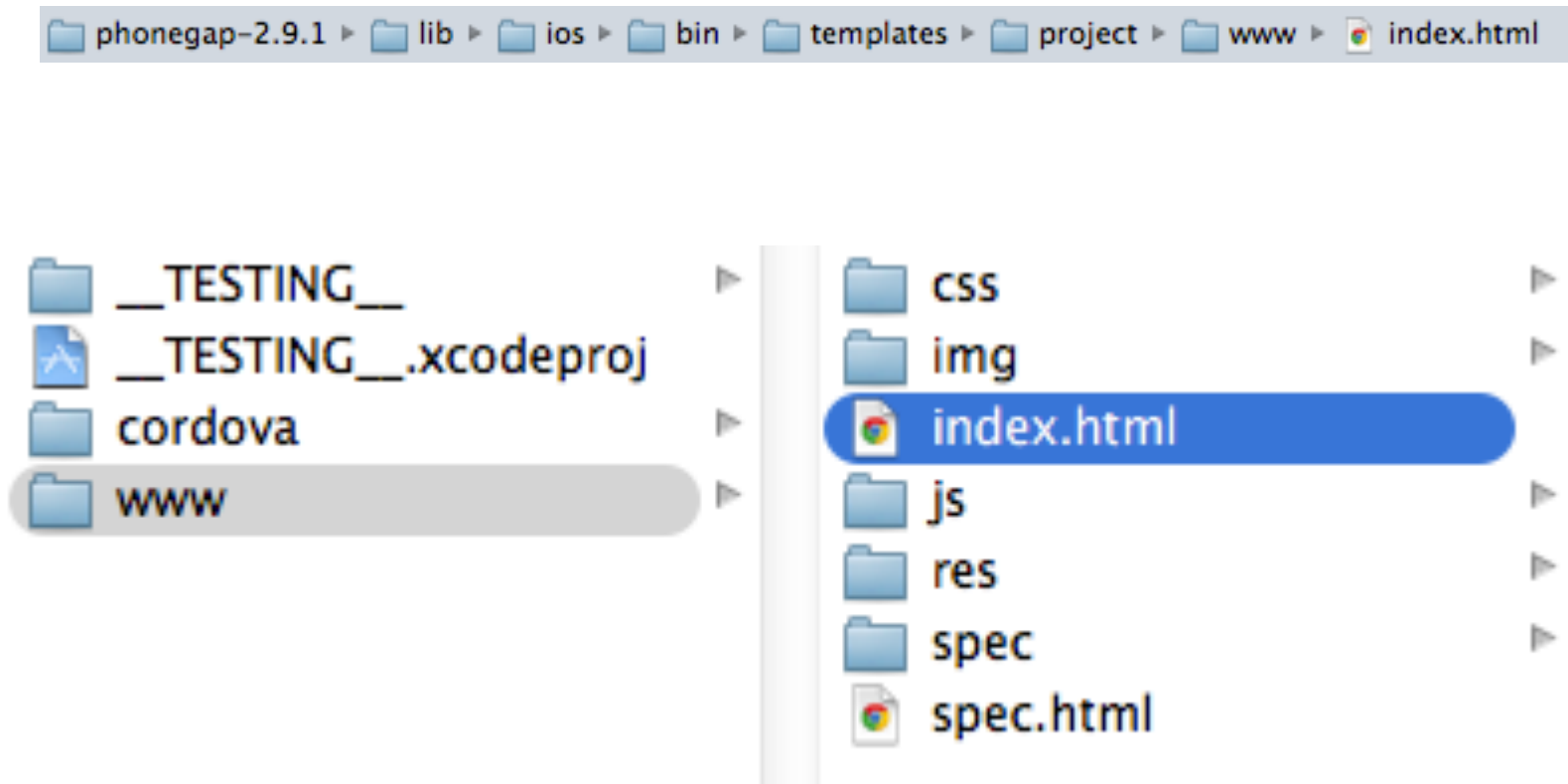
Learn more at [docs.phonegap.com](http://docs.phonegap.com)

### Archives

<b>PhoneGap 2.9.1</b> Released 05 Nov 2013	<b>PhoneGap 2.9.0</b> Released 26 Jun 2013	<b>PhoneGap 2.8.1</b> Released 12 Jun 2013
---	---	---

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

# phonegap-2.9.1/lib/ios/bin/templates/ project/www/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)

## 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>

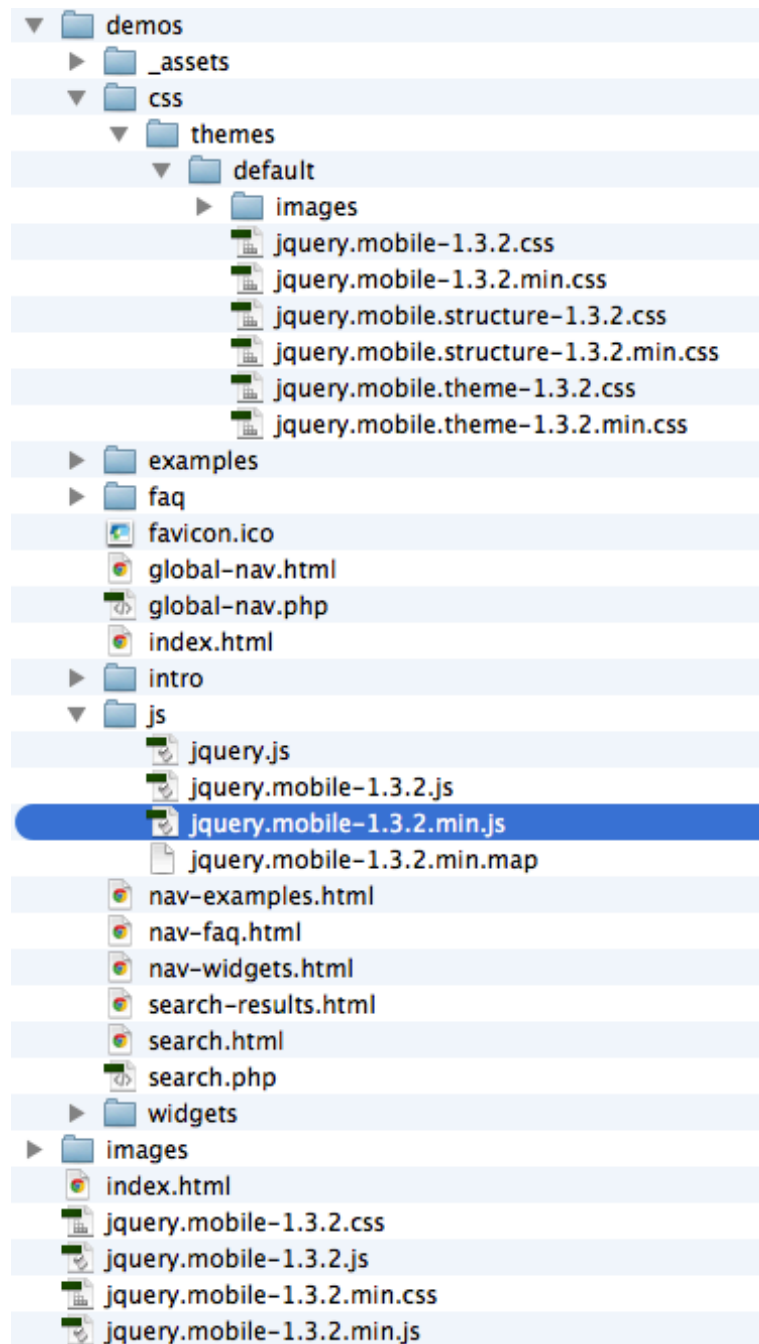
## Change log

### Popup

Remove: Sometimes pass position data through to request for position handling



# jquery.mobile-1.3.2



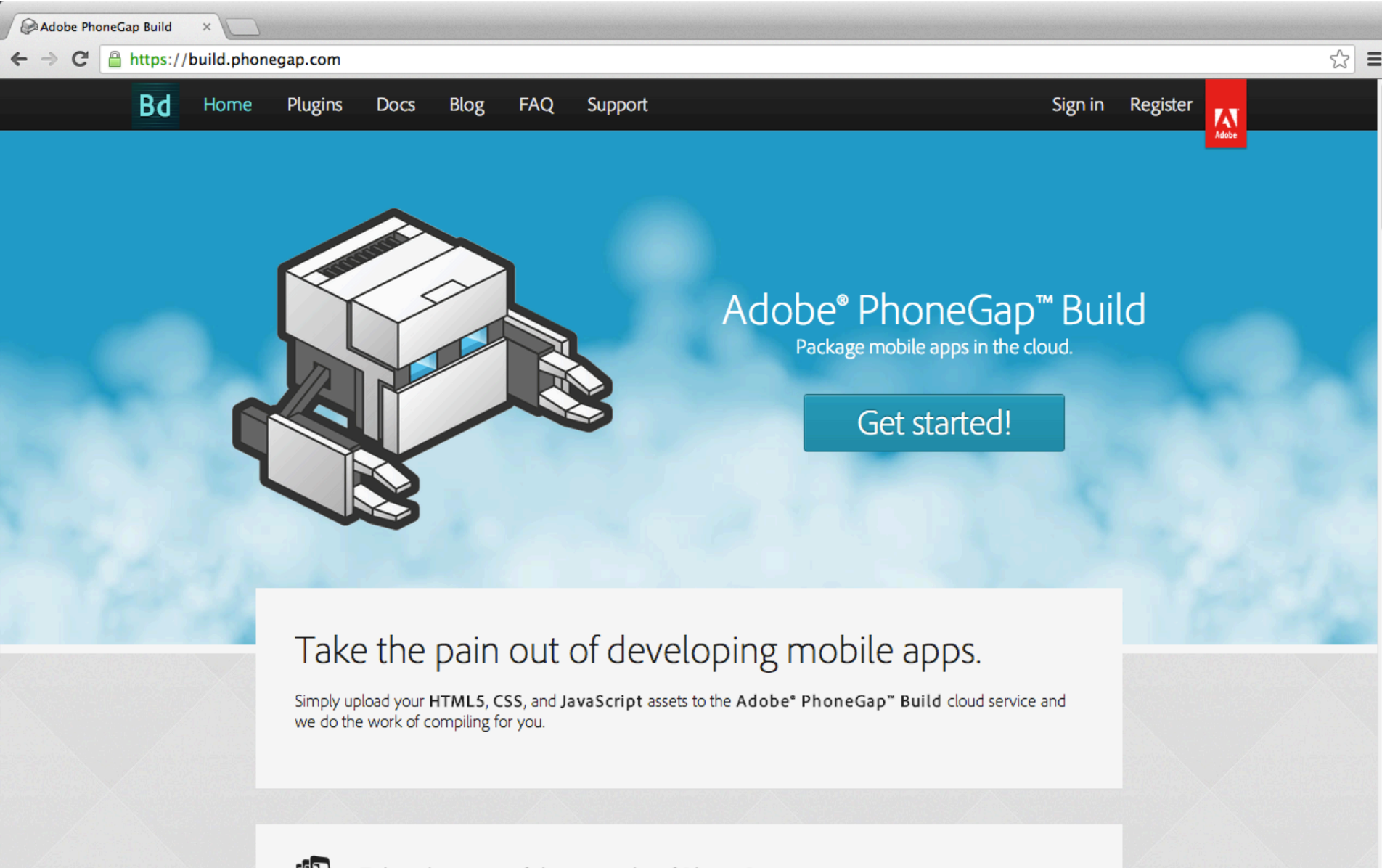
# index.html

```
<!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 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 white text box below the phone 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/>



# Complete your registration

1. Create your account

## Sign In

Adobe ID (Email Address)

Password

Stay signed in

[Trouble signing in?](#)

Create an Adobe ID

Sign In


Paid Plan


[change](#)


25 private apps  
unlimited open-source apps  
unlimited collaborators

# Create your account

Choose how you would like to sign in to PhoneGap Build.

Adobe ID 

 Includes **Adobe Creative Cloud** free membership with 2GB of storage and access to Adobe Edge Tools & Services and more. [Learn more](#)

Github 

**Free Plan** [change](#)

- 1 private apps
- unlimited open-source apps
- unlimited collaborators

Language:

English

Navigation

Apps

Plugins

Docs

Powered by Adobe® PhoneGap™



[Find out more](#)

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Adobe PhoneGap Build    Min-Yuh Day

https://build.phonegap.com/apps/573842/builds

**Bd** Apps Plug

Feedback

Update code

New source

Choose File No file chosen

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

Cancel Upload

Source zip package

Rebuild Error

No key selected

Rebuild apk

Rebuild xap

Rebuild Error

Rebuild ipk

Rebuild wgz

www

FAVORITES

- Dropbox
- All My Files
- Applications
- Desktop
- Documents
- Downloads
- Movies
- Music
- Pictures
- imyday

DEVICES

- iMyday的 MacBook Pro
- Macintosh HD

app

app.zip

certificate

cindex.htm

cscim2011

doc

googlee54...0f64e.html

images

index.htm

m

news

nu3

photos

publications

resources

slides

teaching

teachinga.htm

ZIP

Name app.zip

Kind Zip

Size 2.4 MB

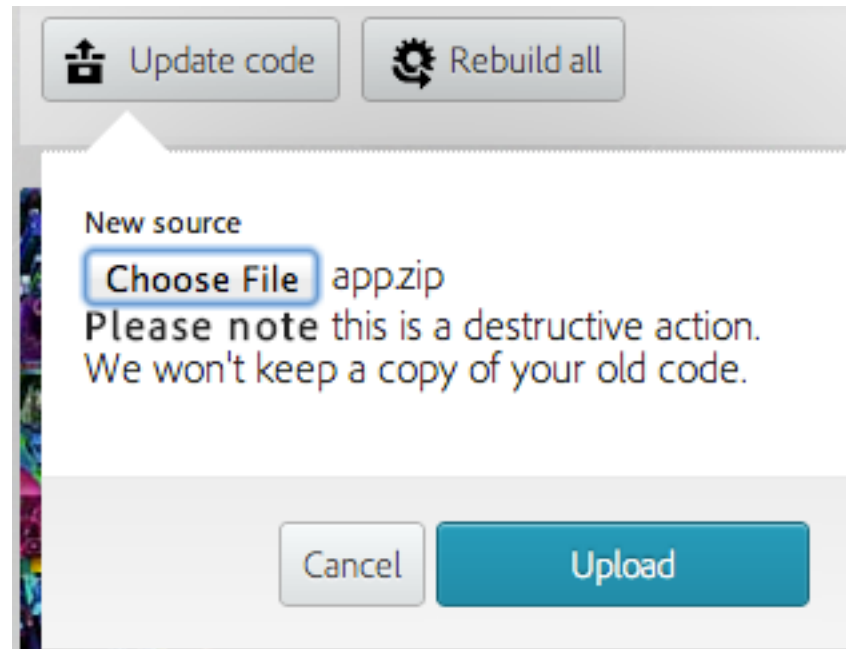
Created 今天 上午05:51

Modified 今天 上午05:51

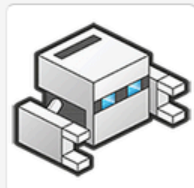
Last opened 今天 上午05:51

Cancel Open

Install



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

Feedback





# 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](#)

Powered by Adobe® PhoneGap™



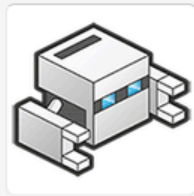
[Find out more](#)

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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

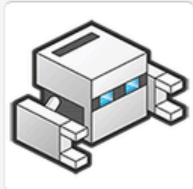
### Settings

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

## 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

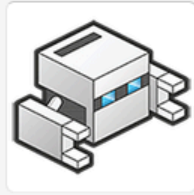
version

Configuration

description

Feedback

Danger Zone



# Myday Mobile App

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



Install

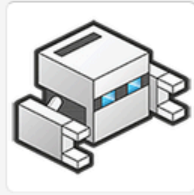
Update code Rebuild all

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

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



# Myday Mobile App

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



Install

Update code Rebuild all

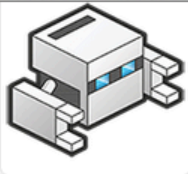
Feedback

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	<input checked="" type="checkbox"/>	No key selected add a key ...	Rebuild	Error	Android	No key selected	Rebuild	apk
Windows	<input type="checkbox"/>		Rebuild	xap	Windows	No key selected	Rebuild	OTA install
hp	<input type="checkbox"/>		Rebuild	ipk	iOS		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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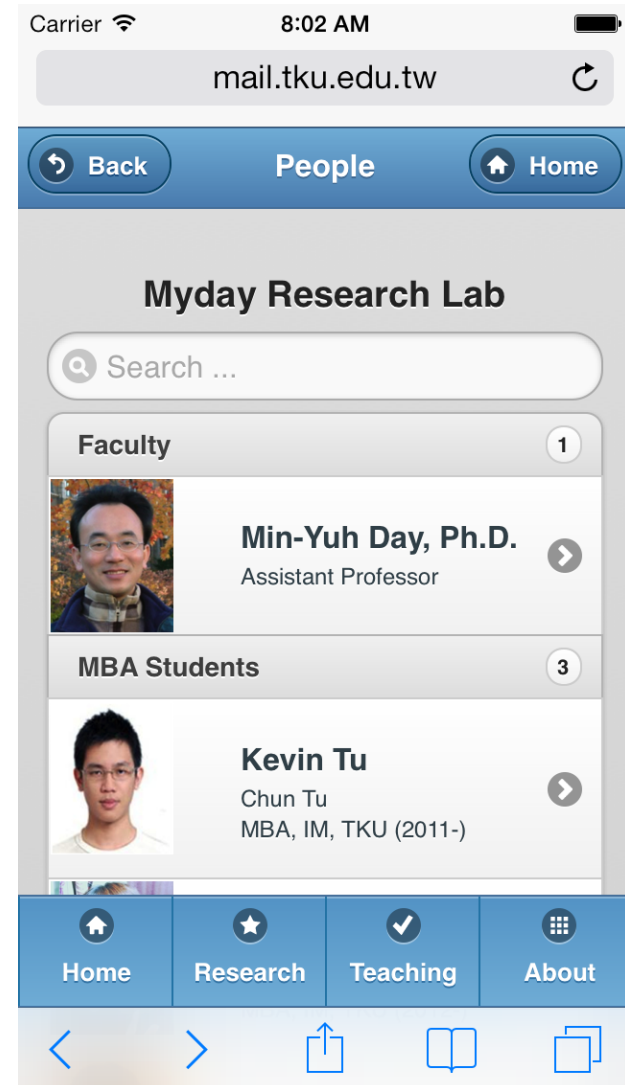
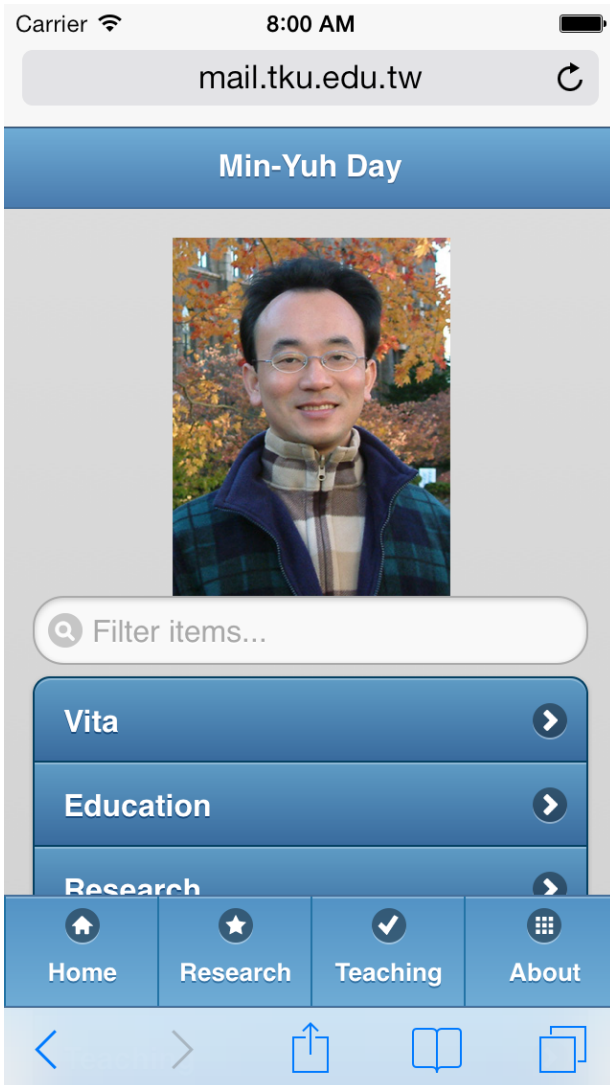
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Feedback

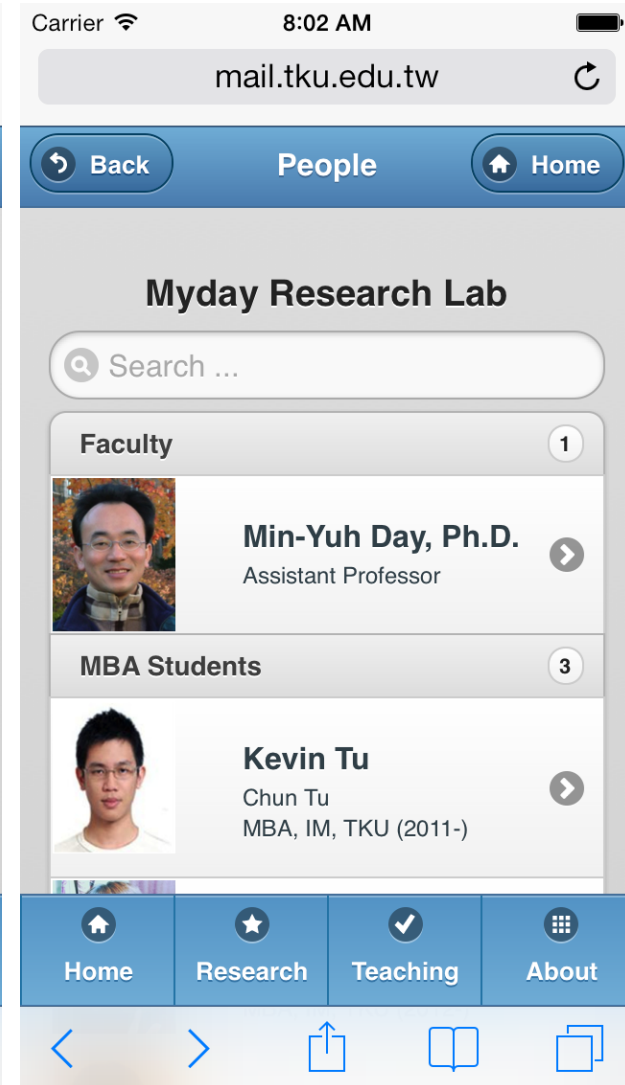
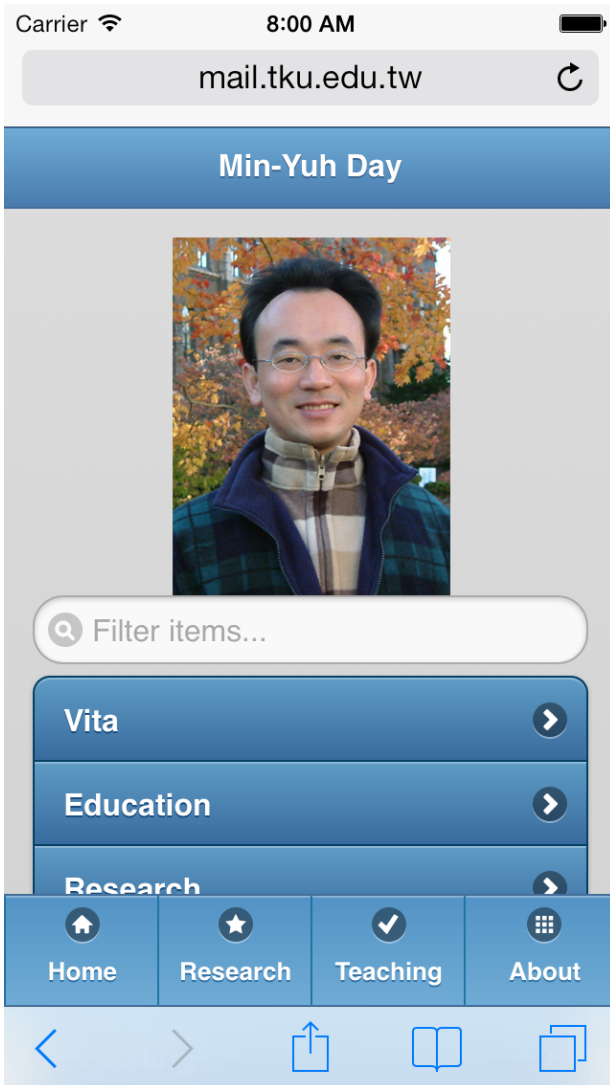


# Myday Mobile App -> Hybrid App





# Myday Mobile App -> Hybrid App

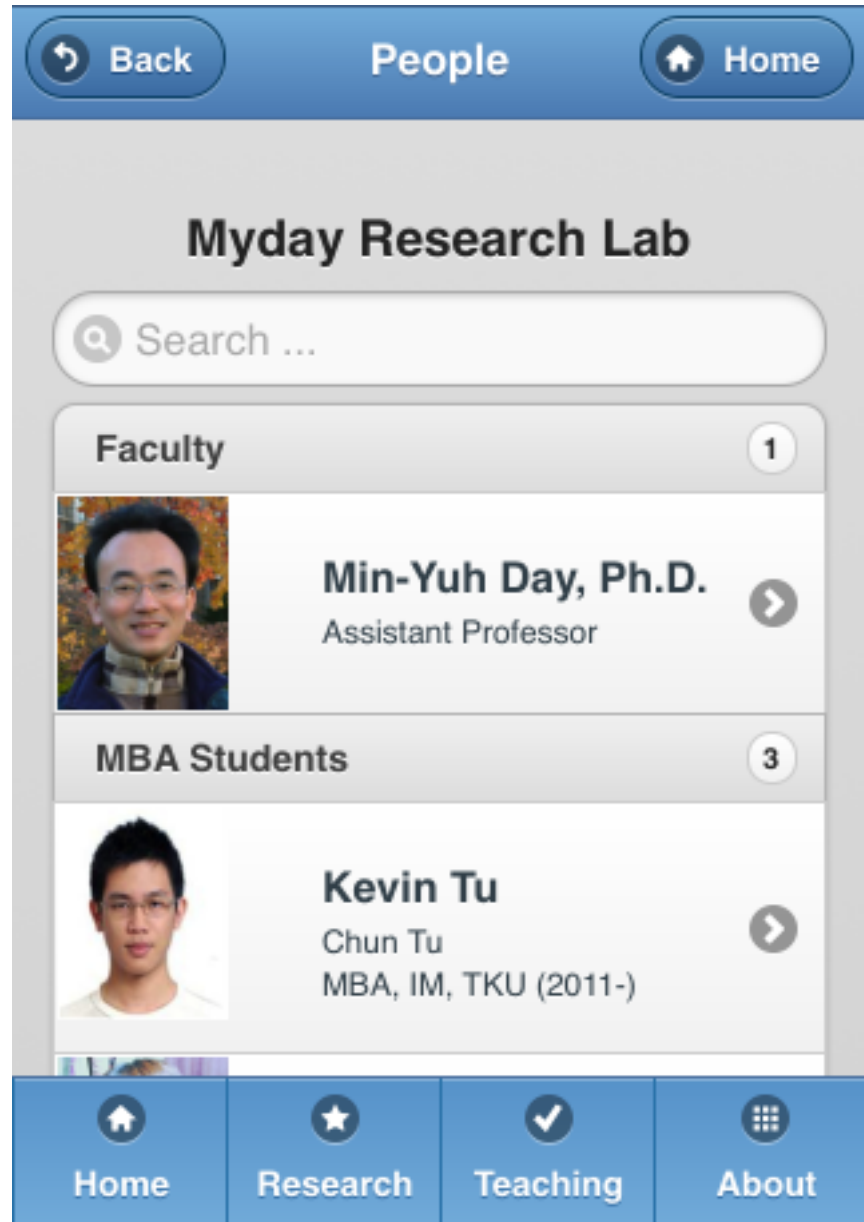
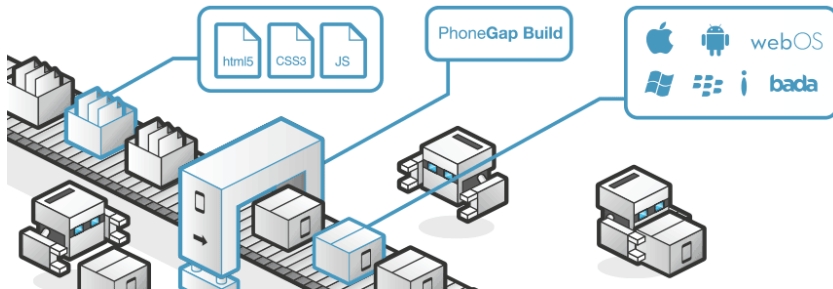
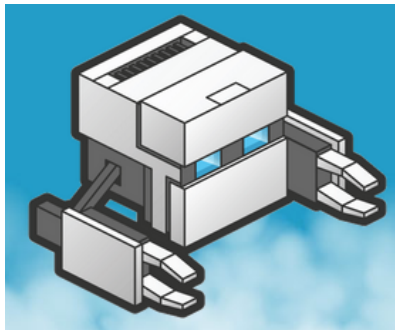


<http://mail.tku.edu.tw/myday/m>



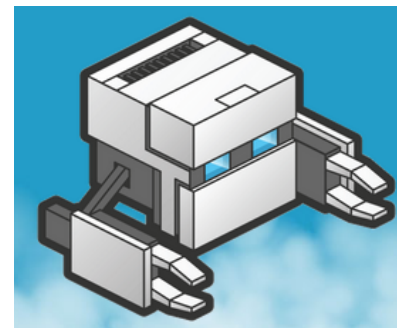
<http://mail.tku.edu.tw/myday/app/>

# 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



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- 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/>