



Social Media Apps Programming

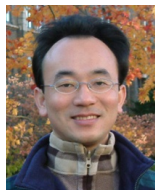
Introduction to Android / iOS Apps Programming

1031SMAP02

TLMXM1A (8687) (M2143) (Fall 2014)

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

Thu 8,9 (15:10-17:00) 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 | 2014/09/17 | Course Orientation and Introduction to Social Media and Mobile Apps Programming |
| • 2 | 2014/09/24 | Introduction to Android / iOS Apps Programming |
| • 3 | 2014/10/01 | Developing Android Native Apps with Java (Eclipse) (MIT App Inventor) |
| • 4 | 2014/10/08 | Developing iPhone / iPad Native Apps with Swift / Objective-C (XCode) |
| • 5 | 2014/10/15 | Mobile Apps using HTML5/CSS3/JavaScript |
| • 6 | 2014/10/22 | jQuery Mobile |

Course Schedule (2/3)

- | Week | Date | Subject/Topics |
|------|------------|----------------------------------------------------------------------------------------------|
| • 7 | 2014/10/29 | Create Hybrid Apps with Phonegap |
| • 8 | 2014/11/05 | jQuery Mobile/Phonegap |
| • 9 | 2014/11/12 | jQuery Mobile/Phonegap |
| • 10 | 2014/11/19 | Midterm Exam Week
(Midterm Project Report) |
| • 11 | 2014/11/26 | Case Study on Social Media Apps
Programming and Marketing in
Google Play and App Store |
| • 12 | 2014/12/03 | Google Cloud Platform |

Course Schedule (3/3)

Week	Date	Subject/Topics
• 13	2014/12/10	Google App Engine
• 14	2014/12/17	Google Map API
• 15	2014/12/24	Facebook API (Facebook JavaScript SDK) (Integrate Facebook with iOS/Android Apps)
• 16	2014/01/31	Twitter API
• 17	2015/01/07	Final Project Presentation
• 18	2015/01/14	Final Exam Week (Final Project Report)

Android /iOS Apps Programming

Native Apps

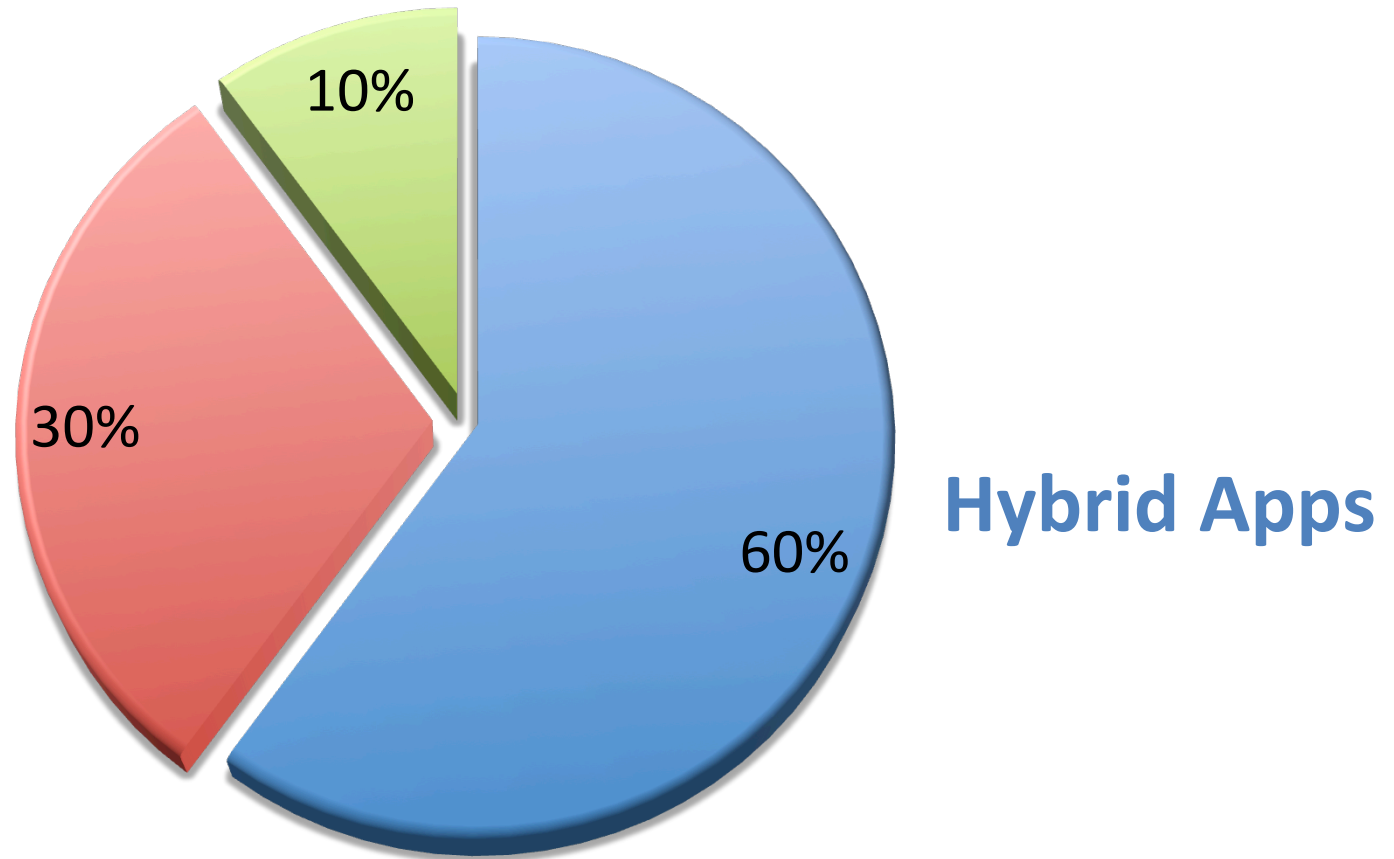
Hybrid Apps

Mobile Web Apps



Enterprise Apps in 2015

■ Hybrid Apps ■ Native Apps ■ Web Apps



Gartner recommend **hybrid apps** over **native apps** development for businesses

Android / iOS Apps Programming

- Native Apps
- Mobile Apps (Web Apps)
- Hybrid Apps

Building Android Apps with HTML, CSS, and JavaScript: Making Native Apps with Standards-Based Web Tools, Jonathan Stark & Brian Jepson, O'reilly, 2012



Building iPhone Apps with HTML, CSS, and JavaScript: Making App Store Apps Without Objective-C or Cocoa

Jonathan Stark, O'Reilly, 2010

Making App Store Apps Without Objective-C or Cocoa



Building

iPhone
Apps

with HTML, CSS, and JavaScript

O'REILLY®

Jonathan Stark

Copyrighted Material

App Development Comparison



Native Apps



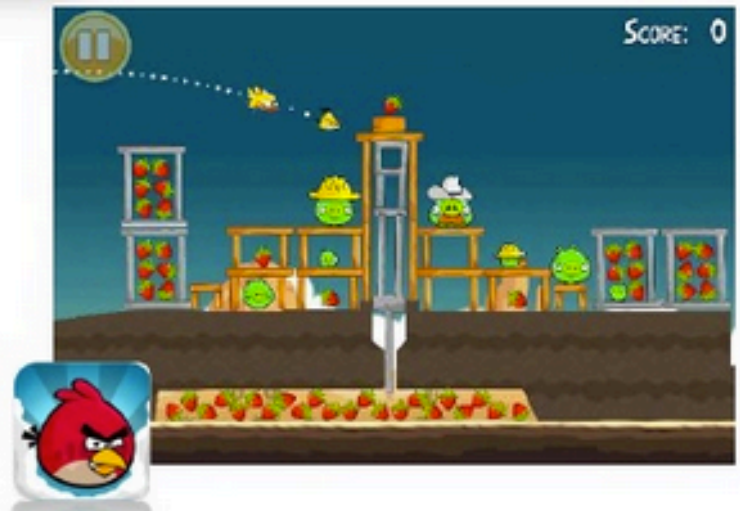
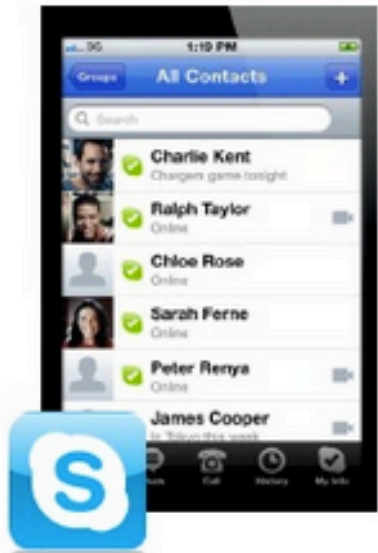
Hybrid Apps



Web Apps



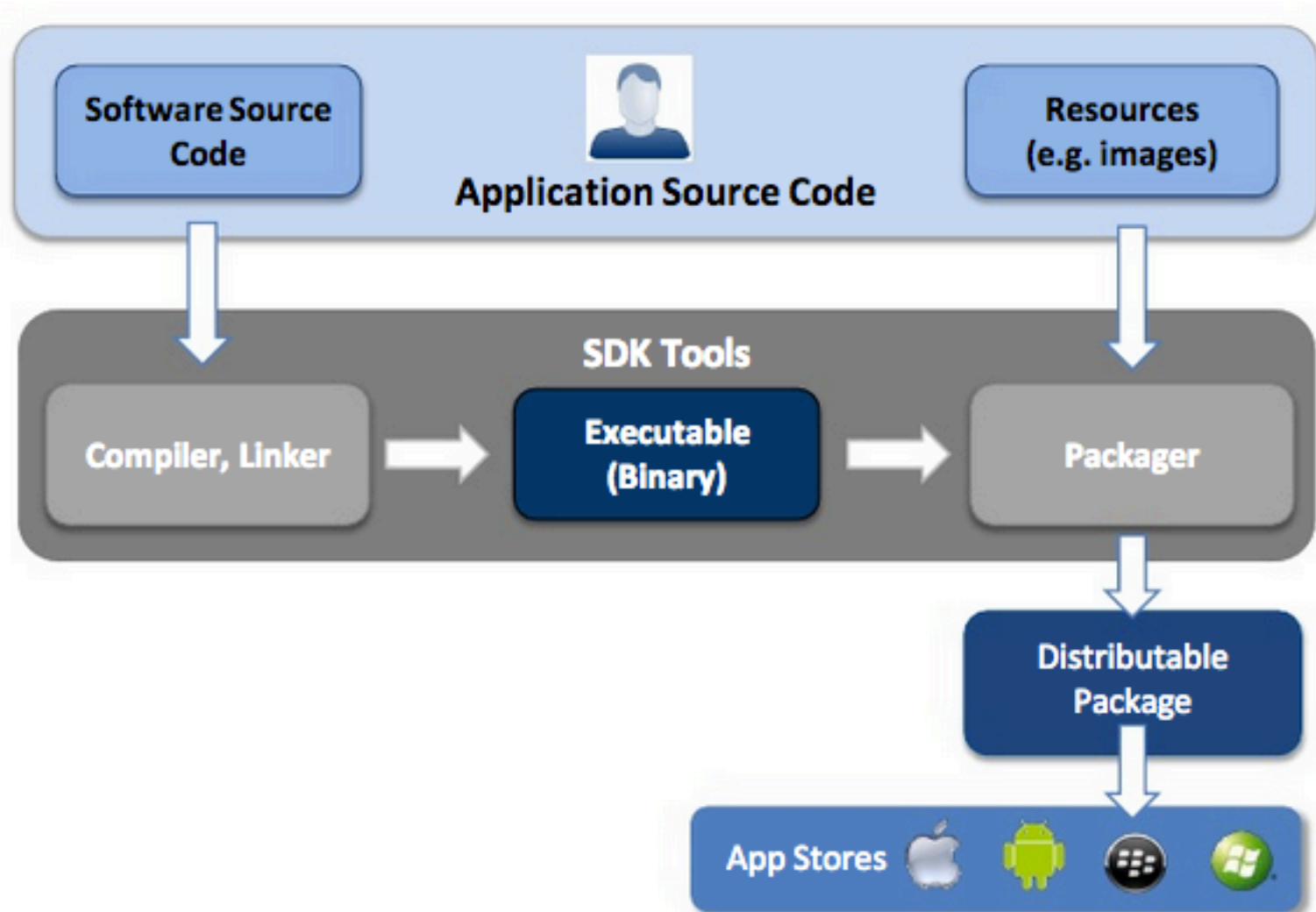
Examples of Purely-Native Mobile Apps



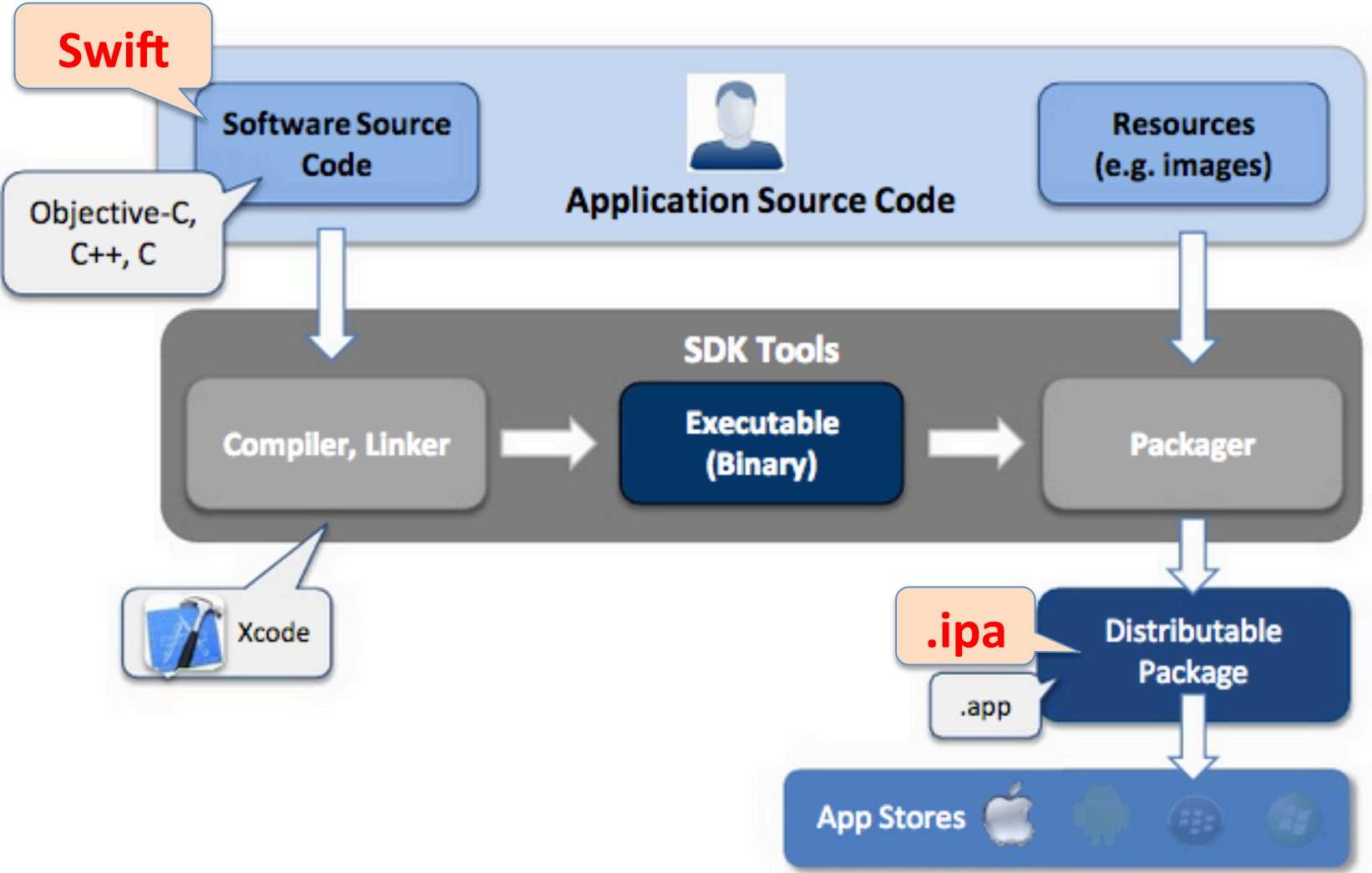
Characteristics of a Purely-Native Mobile App

- A **binary** “executable image”, that is explicitly downloaded and stored on the file system of the mobile device
- **Distributed** through the popular app store or marketplace of the device, or via an enterprise distribution mechanism
- **Executed directly** by the operating system
 - Launched from the home screen
 - Does not require another “container app” to run it
- Makes explicit use of **operating-system APIs**

Native App Development



iOS - Native App Development



Swift Language



A new programming language for iOS and OS X.

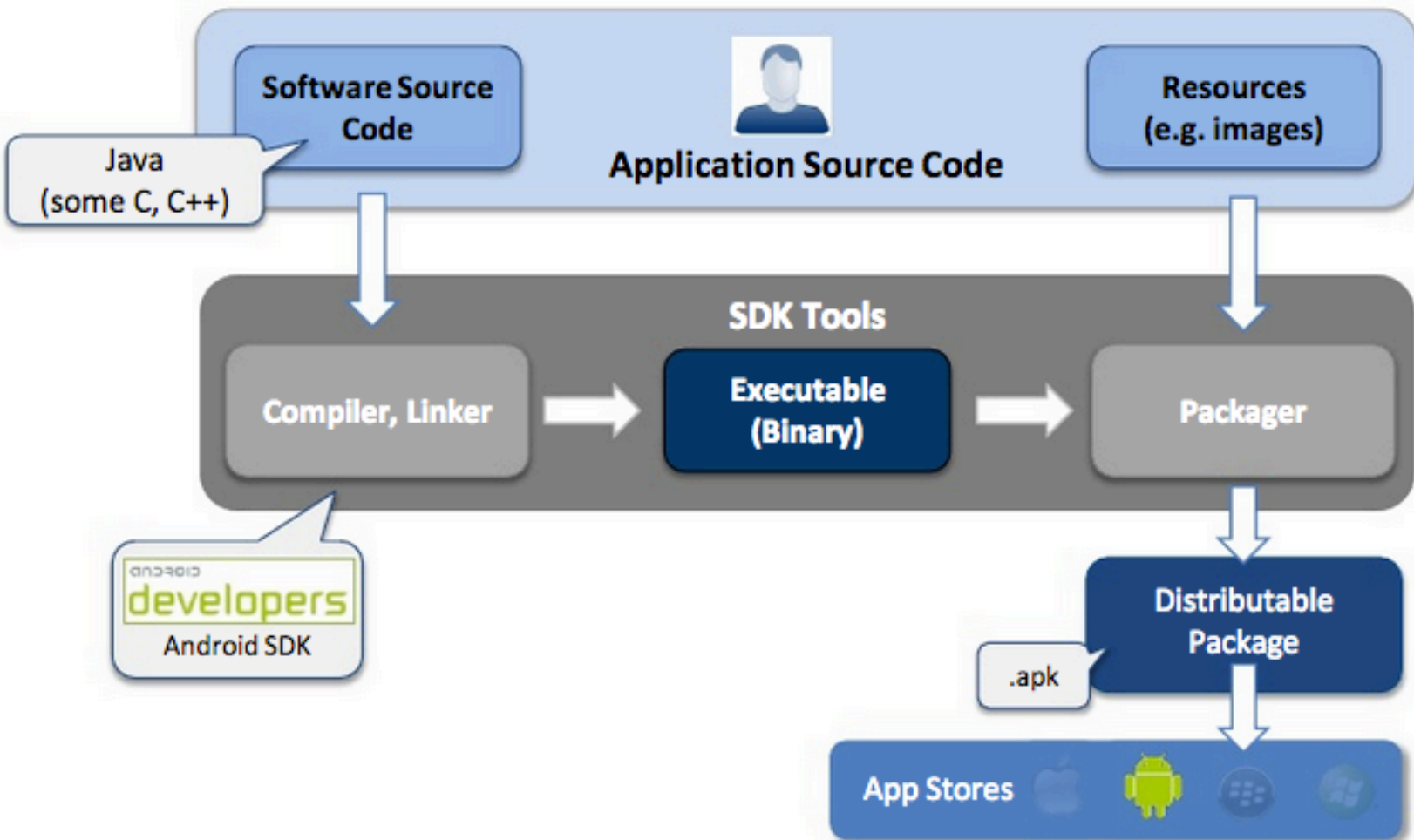
- Swift is a new **object-oriented programming language** for **iOS and OS X development**.
- Swift is **modern, powerful, expressive,** and **easy to use**.

Swift Language

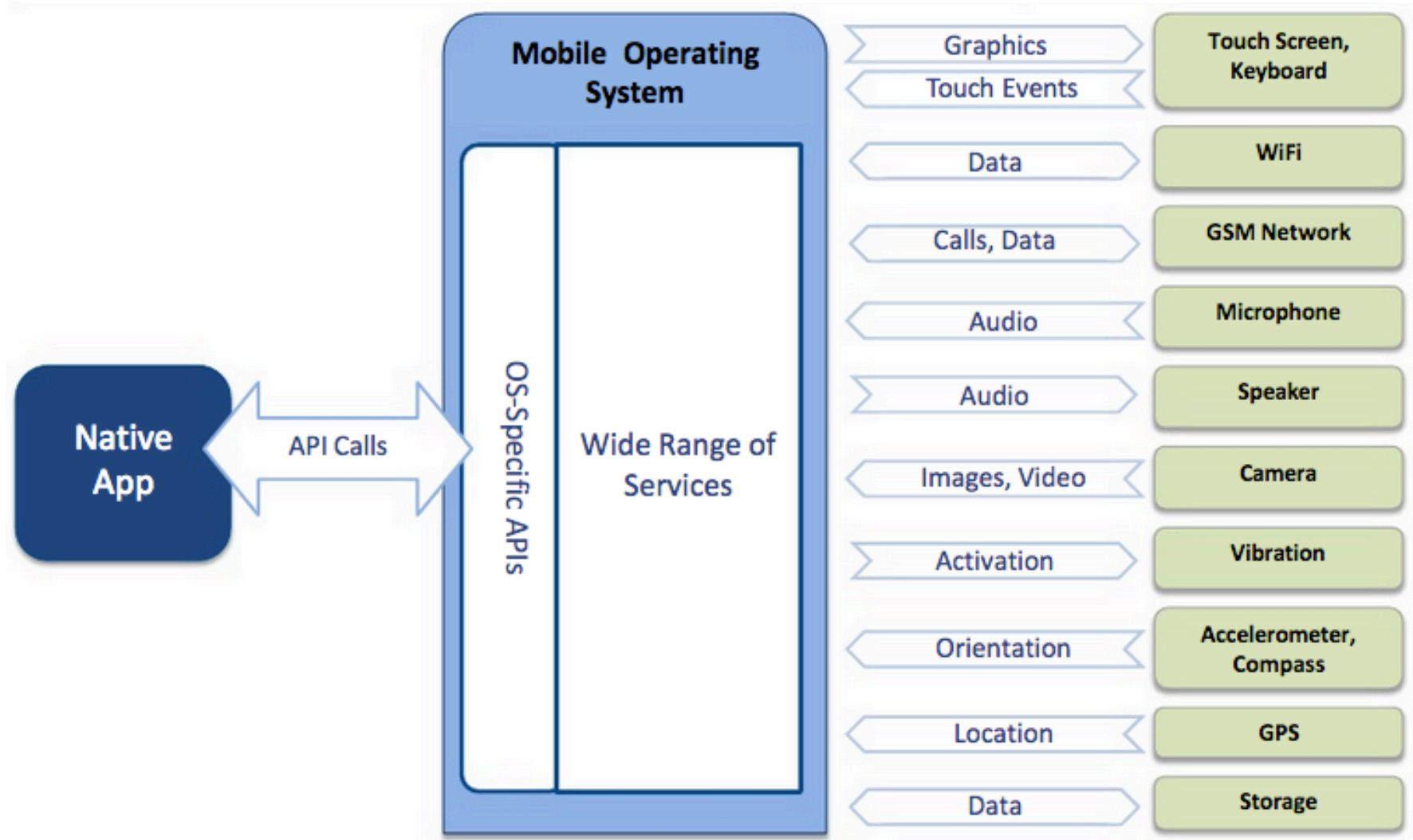


- **Unified**
A **complete replacement** for both the **C** and **Objective-C** languages.
 - Swift provides full object-oriented features, and includes low-level language primitives such as types, flow control, and operators.
- **Fast**
- **Complete platform**
- **Safe by design**
- **Modern**
- **Interactive**

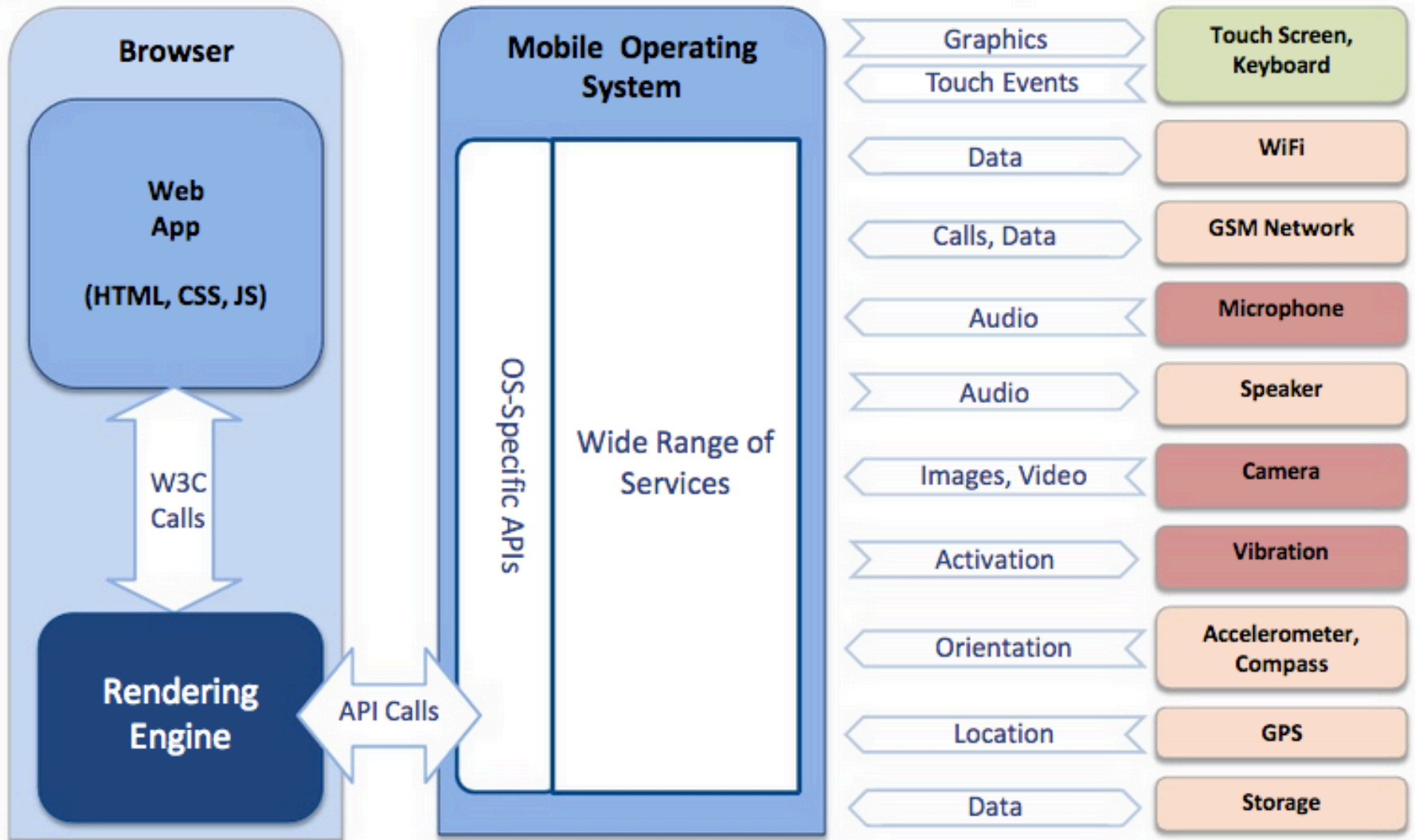
Android - Native App Development



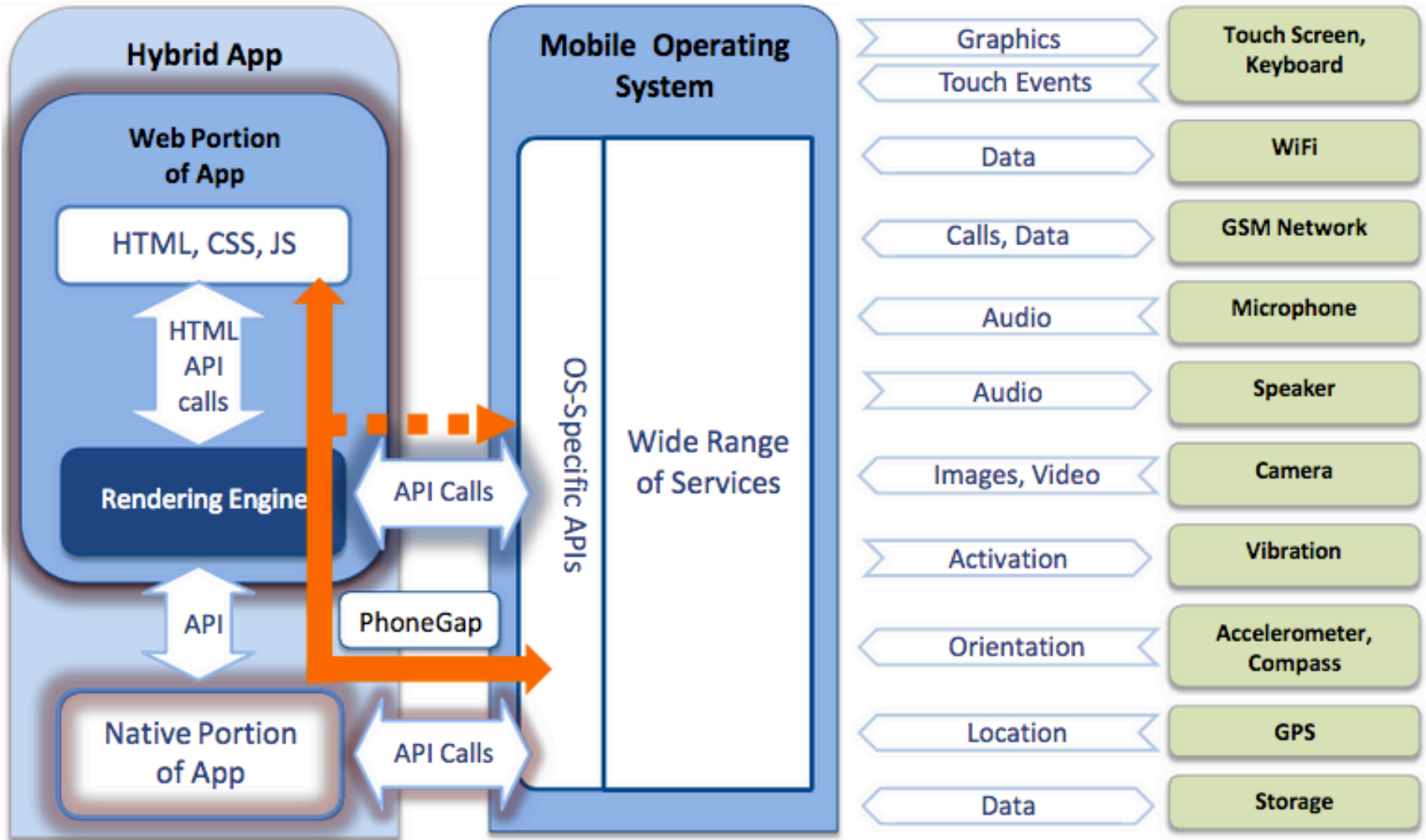
Native App – Interaction with Mobile Device



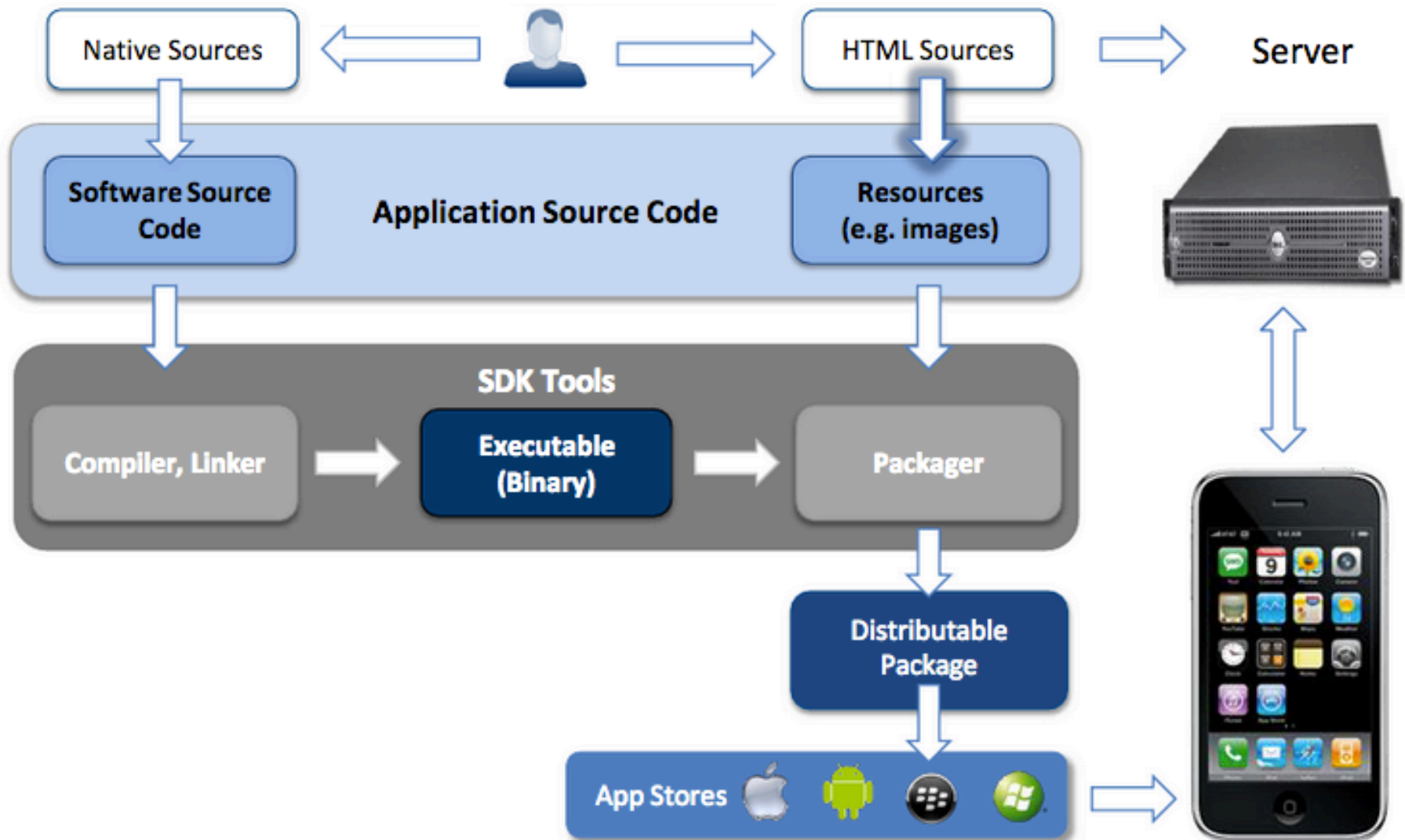
Web App – Interaction with Mobile Device



Hybrid App – Interaction with Mobile Device

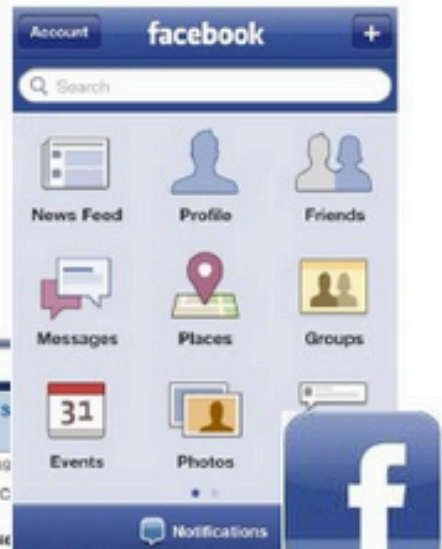


Hybrid App Development



Hybrid App Examples

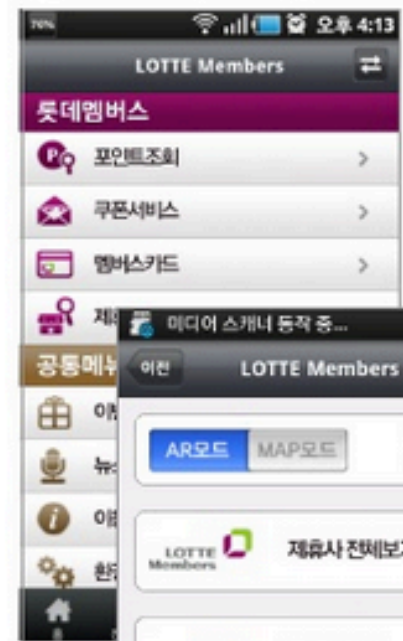
Bank of America



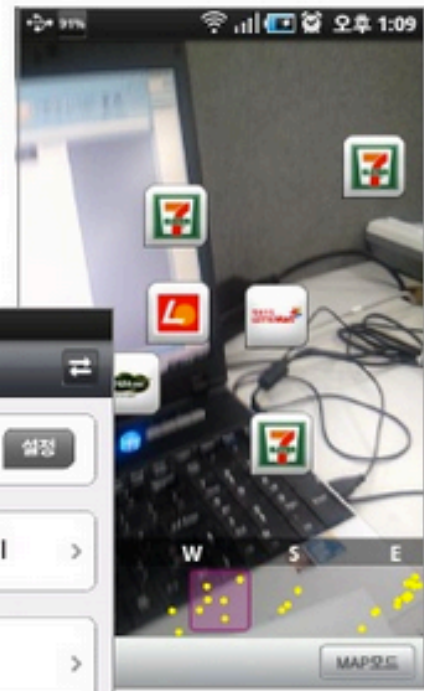
Facebook



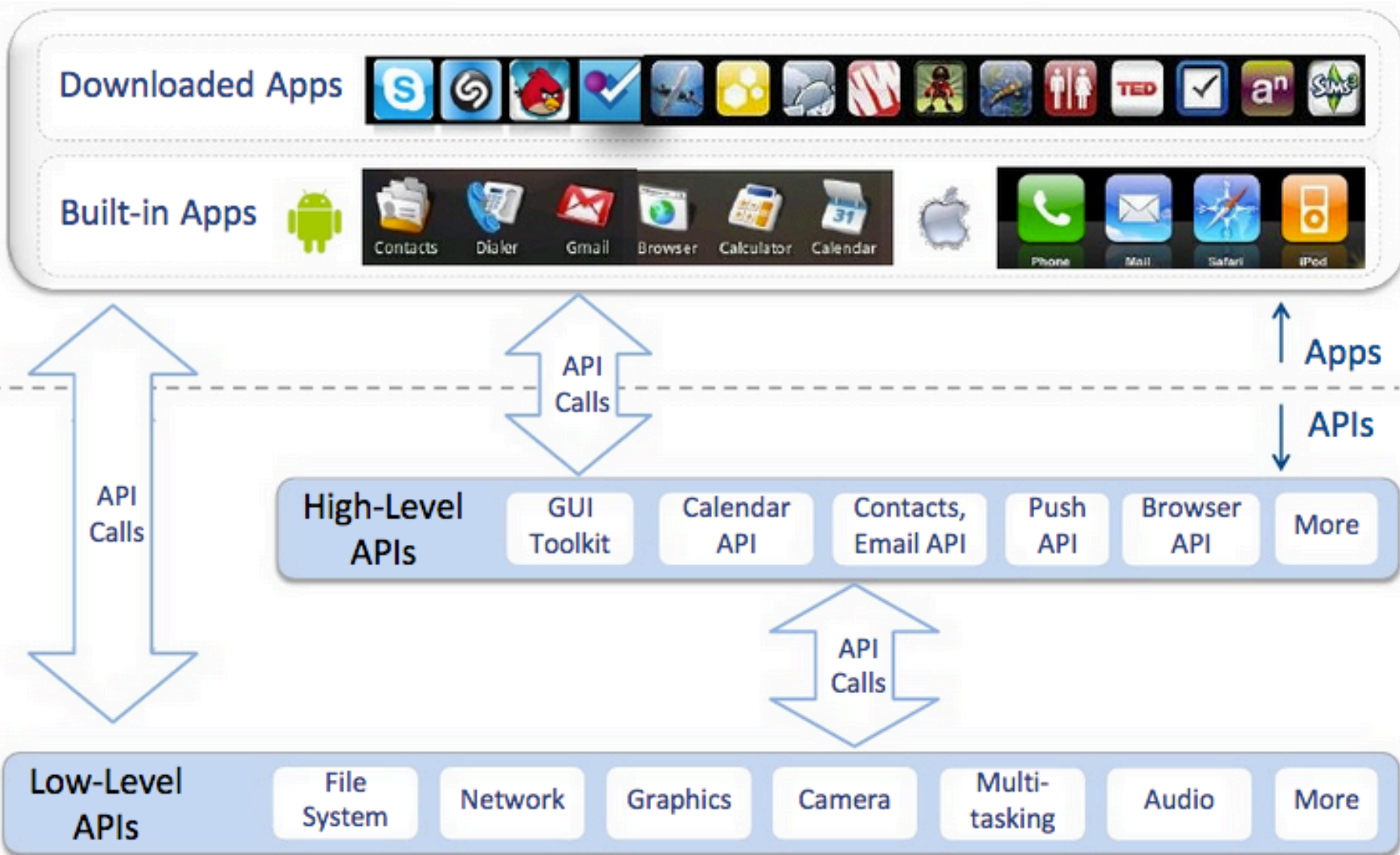
Morgan Stanley



Lotte Card (Korea)



Native App – High-level APIs and Built-in Apps



GUI Toolkit Provides App With “Native” Look



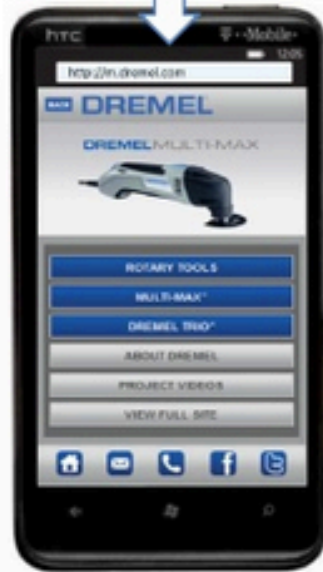
Mobile Web Apps and Mobile Browsing



Mobile Browsing and Mobile Web Apps



Google, Wikipedia:
Mobile-optimized
websites



Dremel:
Launch using
QR-Codes



YouTube: Web App



2B: Web App

Mobile Browsing vs. Mobile Web Apps



Pure Mobile Web Sites

- Visited by browsing
- Static, navigational UI
- Generic look & feel
- Server-side rendering
- Require connectivity

... Gray Area ...

Pure Mobile Web Apps

- Installed and launched
- Interactive UI
- Touch optimized
- Client-side rendering
- Available offline

Characteristics of Mobile Web Apps

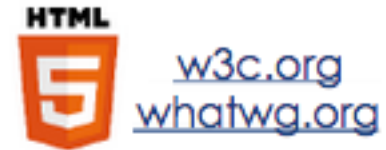
- Entirely written using web technologies
 - HTML, CSS and JavaScript
- Code is executed by the browser, not by the OS
- Various launch mechanisms
 - Typing URL, clicking hyperlink, scanning QR Code or clicking home-screen shortcut
- Installation is optional
- Combine cross-platform HTML5 and device-specific features optimize apps
 - Touch-optimized look & feel
 - No address bar
 - Suggestion to pin to home screen
 - Offline availability

HTML5 and related technologies

Static Pages

Dynamic Pages

Web Applications

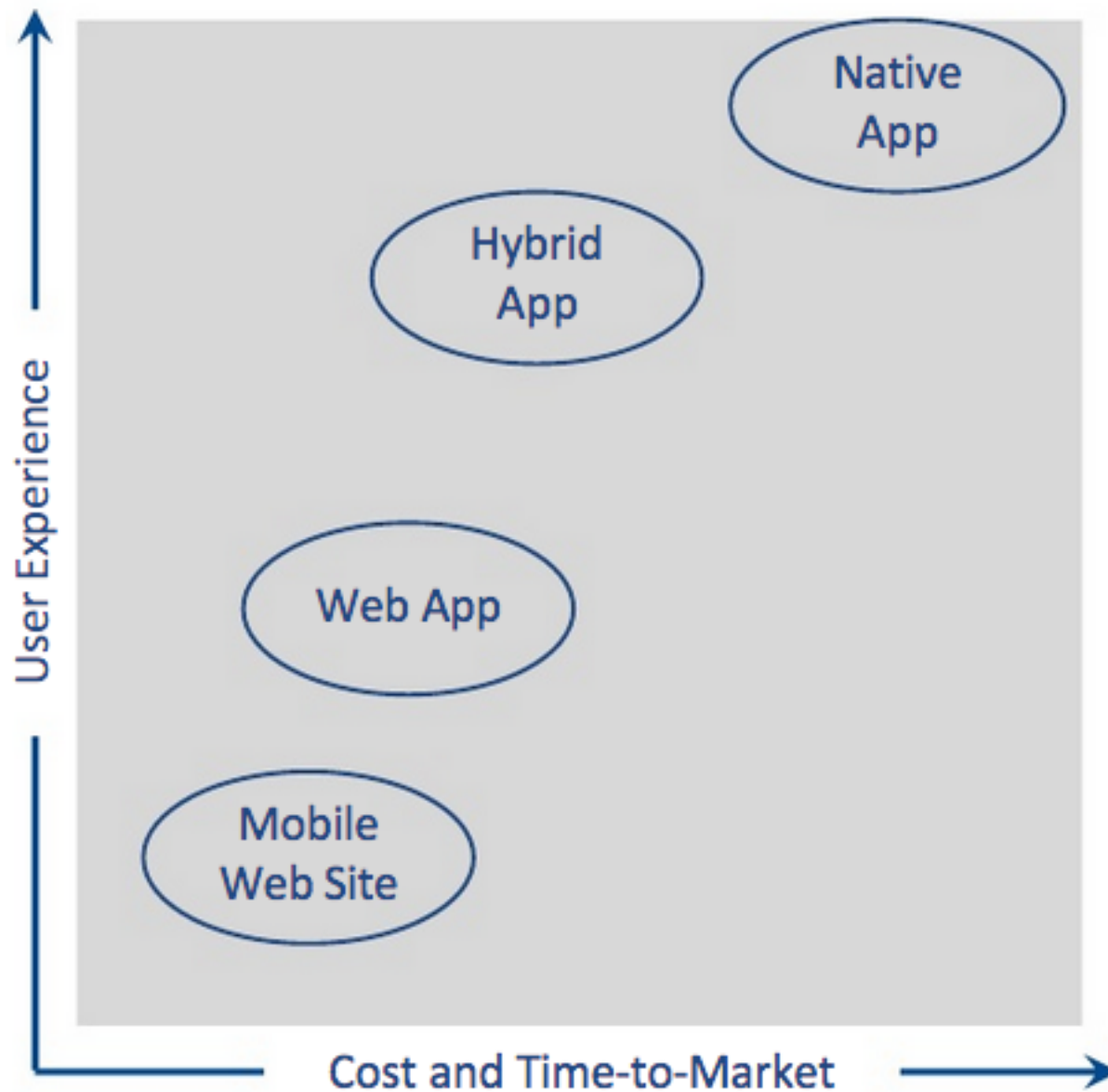


- Main HTML5/CSS3 features on mobile
 - Bitmapped and vector graphics, including animations
 - Offline support and data URLs
 - Geolocation
 - Video and Audio
 - Continuous communications with the server
 - More...

Characteristics of Hybrid Apps

- A Hybrid App is a native app with embedded HTML
- It has all the benefits of native apps: full access to APIs, app-store presence, etc.
- Selected portions of the app are written using web technologies
- The web portions of the app can either be downloaded from the web or packaged within the app

Native Apps vs. Hybrid Apps



HTML5 vs. Hybrid vs. Native Apps



39%

**SPEND TIME DEVELOPING
THE SAME APP/FEATURE FOR
MULTIPLE PLATFORMS**



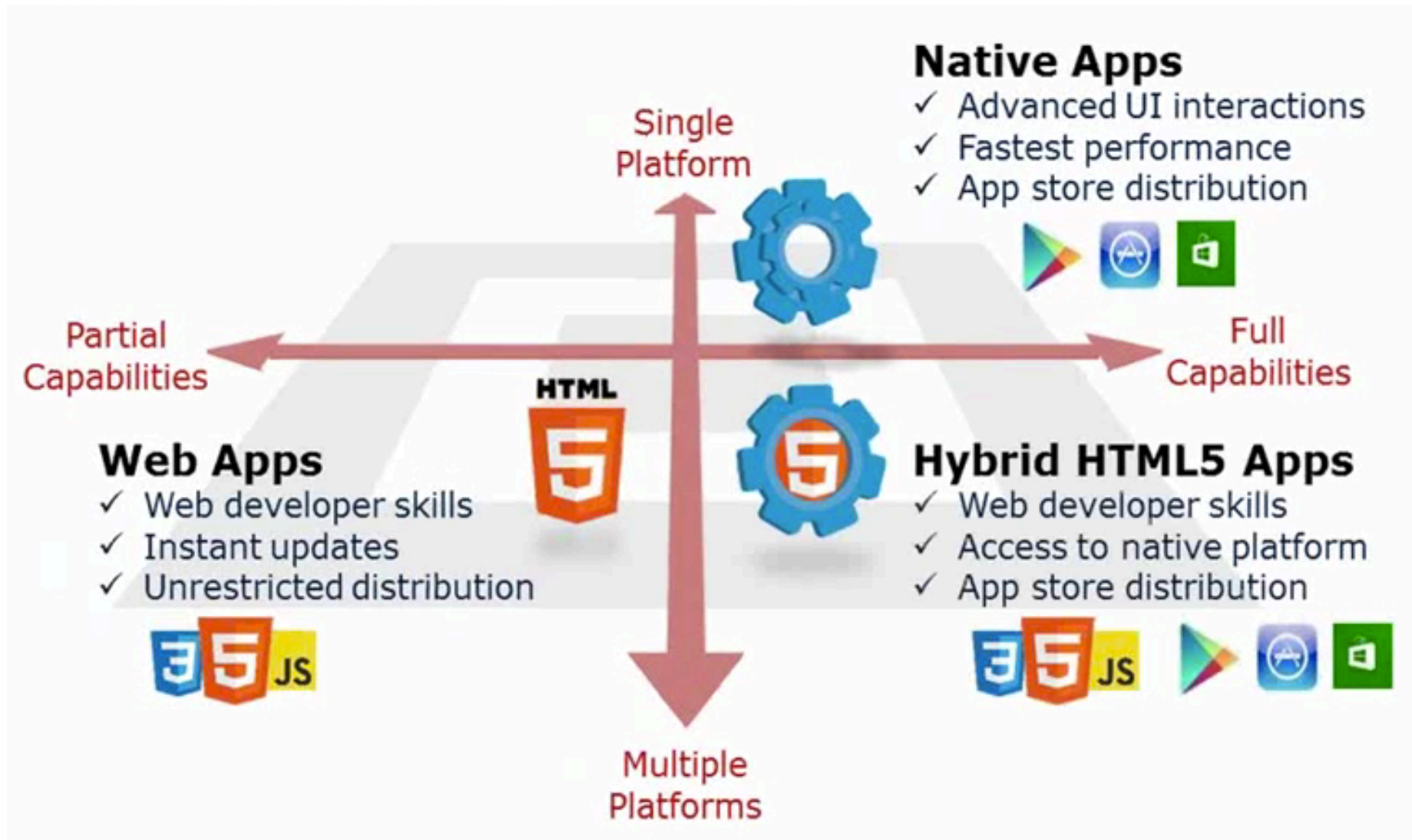
HTML5 is #1

**CHOICE FOR BUILDING APPS FOR
MULTIPLE MOBILE PLATFORMS**



Source: KendoUI.com

Native Apps vs. Hybrid HTML5 Apps



HTML5, JavaScript, CSS3

HTML



CSS



JS



jQuery Mobile: <http://jquerymobile.com/>



The image shows a browser window displaying the jQuery Mobile website. The browser's address bar shows 'jquerymobile.com'. The website has a dark blue header with a navigation menu containing 'jQuery', 'UI', 'Mobile', 'Plugins', 'Meetups', 'Forum', 'Events', 'About', and 'Donate'. Below the header is a green navigation bar with buttons for 'Demos', 'API', 'Download', 'Platforms', 'Themes', 'Resources', and 'Blog'. The main content area features a yellow banner announcing 'JQUERY MOBILE 1.4.0 BETA RELEASED!'. Below this is the title 'jQuery Mobile: Touch-Optimized Web Framework for Smartphones & Tablets' and a paragraph describing it as a unified, HTML5-based user interface system. A link for the 'Latest stable version - 1.3.2' is provided, along with legacy versions '1.2.1 - 1.1.2 - 1.0.1'. To the right of the text is an image of a tablet, a smartphone, and a feature phone, all displaying the jQuery Mobile logo. Below the image is a section titled 'Seriously cross-platform with HTML5' and a paragraph explaining that the framework allows for a single design that works across different mobile devices and desktop platforms. A link for 'Device support' is also present.

jQuery Mobile | jQuery Mo x

jquerymobile.com

jQuery UI Mobile Plugins Meetups Forum Events About Donate

jQuery mobile

Demos API Download Platforms Themes Resources Blog

JQUERY MOBILE 1.4.0 BETA RELEASED!

jQuery Mobile: Touch-Optimized Web Framework for Smartphones & Tablets

A unified, HTML5-based user interface system for all popular mobile device platforms, built on the rock-solid jQuery and jQuery UI foundation. Its lightweight code is built with progressive enhancement, and has a flexible, easily themeable design.

[Latest stable version - 1.3.2](#)

Legacy versions: [1.2.1](#) - [1.1.2](#) - [1.0.1](#)

Seriously cross-platform with HTML5

jQuery mobile framework takes the "write less, do more" mantra to the next level: Instead of writing unique apps for each mobile device or OS, the jQuery mobile framework allows you to design a single highly-branded web site or application that will work on all popular smartphone, tablet, and desktop platforms. [Device support](#)

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

The screenshot shows the PhoneGap website homepage. At the top, there is a navigation bar with links for 'About', 'Developer', 'Community', 'Apps', and 'Support', along with an 'Install' button. The main content area features the headline 'Easily create apps using the web technologies you know and love: HTML, CSS, and JavaScript'. Below this is a sub-headline: '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.' There are two buttons: 'Install PhoneGap' and 'Getting Started Guides'. A video player is embedded on the right with a 'Watch Intro' button. At the bottom, a workflow diagram illustrates the process: 'Wrap your app with PhoneGap' (represented by a box containing JS, CSS, and HTML icons) followed by 'Deploy to mobile platforms!' (represented by mobile device icons).

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 ▶

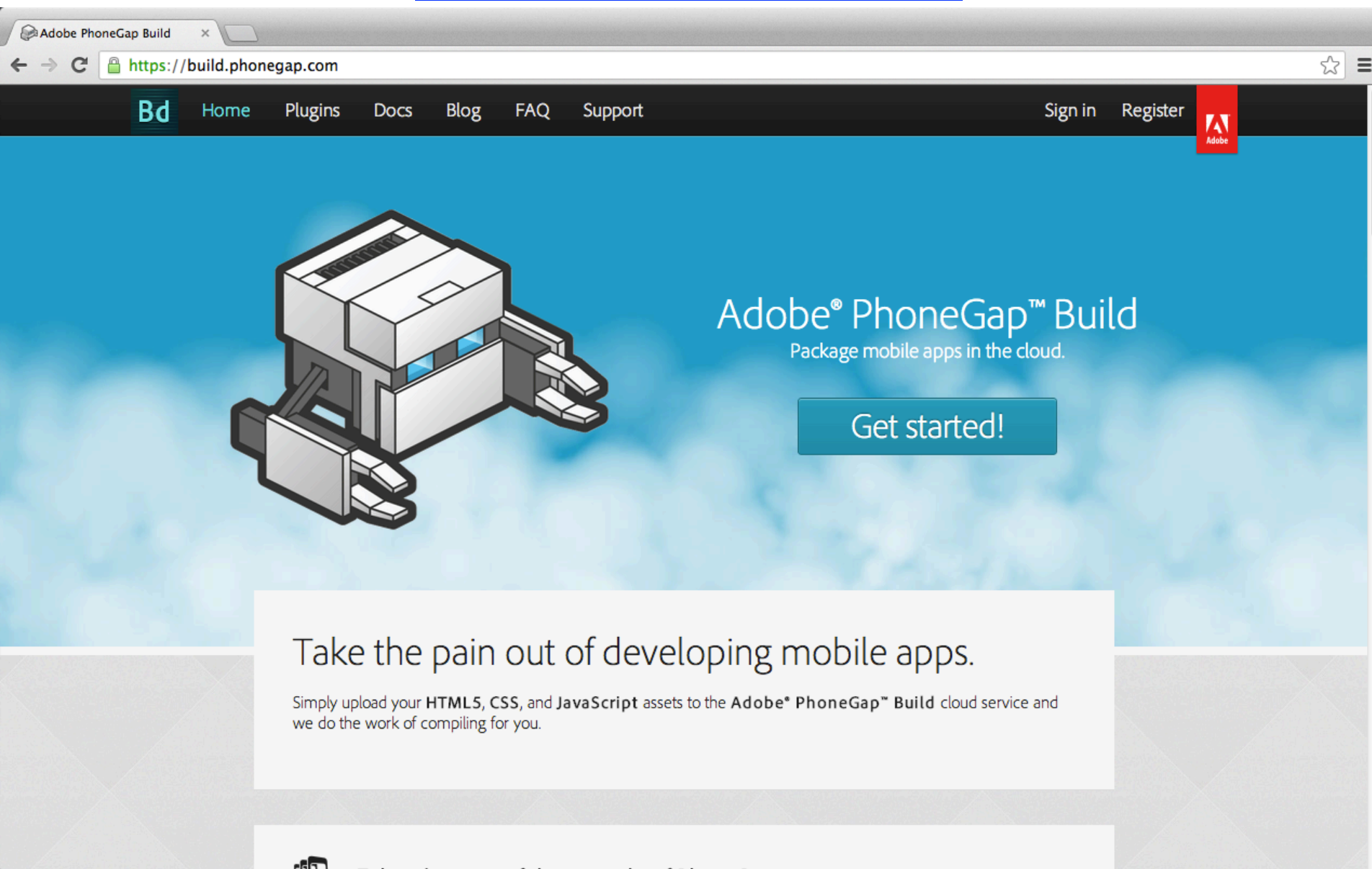
Watch Intro

Wrap your app with PhoneGap

Deploy to mobile platforms!

Adobe PhoneGap Build: Package mobile apps in the cloud

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

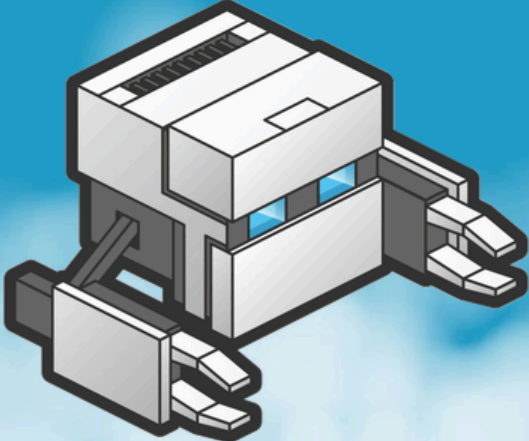


The image shows a browser window displaying the Adobe PhoneGap Build website. The browser's address bar shows the URL <https://build.phonegap.com/>. The website's navigation bar includes links for Home, Plugins, Docs, Blog, FAQ, and Support, along with Sign in and Register options. The Adobe logo is visible in the top right corner. The main content area features a large illustration of a white, boxy mobile phone with a screen and a camera. To the right of the phone, the text reads "Adobe® PhoneGap™ Build" and "Package mobile apps in the cloud." Below this text is a prominent blue button labeled "Get started!". A white box below the main content area 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."

Adobe PhoneGap Build

[Home](#) [Plugins](#) [Docs](#) [Blog](#) [FAQ](#) [Support](#) [Sign in](#) [Register](#)

Adobe



Adobe® PhoneGap™ Build

Package mobile apps in the cloud.

[Get started!](#)

Take the pain out of developing mobile apps.

Simply upload your **HTML5**, **CSS**, and **JavaScript** assets to the **Adobe® PhoneGap™ Build** cloud service and we do the work of compiling for you.

Demo

CompileOnline: Try jQueryMobile
Online

http://www.compileonline.com/try_jquerymobile_online.php



CompileOnline: Try jQueryMobile Online

Try jQuery Mobile Online

www.compileonline.com/try_jquerymobile_online.php

compileonline.com - Try jQueryMobile online

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Result Preview HTML with jQuery Mobile Default Ace Editor

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Page Title</title>
5     <meta name="viewport" content="width=device-width, initial-scale=1" />
6     <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
7     <link type="text/css" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel
8   ="stylesheet" />
9     <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"
10  ></script>
11   </head>
12   <body>
13     <div data-role="page" id="first" data-theme="a">
14       <div data-role="header">
15         <h1>Page Title1</h1>
16       </div><!-- /header -->
17
18       <div data-role="content">
19         <p>Page content goes here.</p>
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23       <div data-role="footer">
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26     </div><!-- /page -->
27
28     <div data-role="page" id="second" data-add-back-btn="true" data-theme="b">
29       <div data-role="header">
30         <h1>Page Title2</h1>
31       </div><!-- /header -->
32
33       <div data-role="content">
34         <p>Page content goes here.</p>
35       </div><!-- /content -->
36
37       <div data-role="footer">
38         <h4>Page Footer2</h4>
39       </div><!-- /footer -->
40     </div><!-- /page -->
41   </body>
42 </html>
```


Result


How it works?

Just follow the following simple steps to compile and execute any of your favorites programming languages online using your favorite browser and without having any setup on your local machine.

Step - 1 Select your favorite language which you want to execute.

Step - 2 Type your source using available text editor.

Step - 3 Finally click  button [Ctrl+E on Windows & Command+E on Mac] to see the result.

NOTE: If you do not get result, then kindly try clicking  button once again.

Advanced Functionality

- If you are willing to provide input to your program then use **input.txt** to give input to your program. Internally you will need to read this input.
- If you know how to use multiple files to implement packages, modules etc. in your favorite language then you can enable multi-file support using available checkbox.
- If you are willing to provide command line arguments to your program then use below mentioned input box to specify your command line arguments.

Tutorials

Try jQuery Mobile Online

www.compileonline.com/try_jquermobile_online.php

compileonline.com - Try jQueryMobile online

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Result Preview HTML with jQuery Mobile Default Ace Editor Result Download Files

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Page Title1

Page content goes here.

[Go to second page](#)

Page Footer1

javascript:void(0)

http://www.compileonline.com/try_jquermobile_online.php

Try jQuery Mobile Online

www.compileonline.com/try_jquermobile_online.php

compileonline.com - Try jQueryMobile online

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[Go to second page](#)

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http://www.compileonline.com/try_jquermobile_online.php

Try jQuery Mobile Online

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compileonline.com - Try jQueryMobile online

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Download Files

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  <head>
    <title>Page Title</title>
    <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>
  </head>
```

```
<body>
  <div data-role="page" id="first" data-theme="a">
    <div data-role="header">
      <h1>Page Title1</h1>
    </div><!-- /header -->

    <div data-role="content">
      <p>Page content goes here. Hello World Myday</p>
      <a href="#second">Go to second page</a>
    </div><!-- /content -->

    <div data-role="footer">
      <h4>Page Footer1</h4>
    </div><!-- /footer -->
  </div><!-- /page -->
```

```
<div data-role="page" id="second" data-add-back-btn="true"  
data-theme="b">  
  <div data-role="header">  
    <h1>Page Title2</h1>  
  </div><!-- /header -->  
  
  <div data-role="content">  
    <p>Page content goes here.</p>  
  </div><!-- /content -->  
  
  <div data-role="footer">  
    <h4>Page Footer2</h4>  
  </div><!-- /footer -->  
</div><!-- /page -->  
</body>  
</html>
```

Try jQuery Mobile Online

www.compileonline.com/try_jquerymobile_online.php

compileonline.com - Try jQueryMobile online

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Result Preview HTML with jQuery Mobile Default Ace Editor

```
6 <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
7 <link type="text/css" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel
="stylesheet" />
8 <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"
></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="first" data-theme="a">
13 <div data-role="header">
14 <h1>Page Title1</h1>
15 </div><!-- /header -->
16
17 <div data-role="content">
18 <p>Page content goes here. Hello World Myday</p>
19 <a href="#second">Go to second page</a>
20 </div><!-- /content -->
21
22 <div data-role="footer">
23 <h4>Page Footer1</h4>
24 </div><!-- /footer -->
25 </div><!-- /page -->
26
27 <div data-role="page" id="second" data-add-back-btn="true" data-theme="b">
28 <div data-role="header">
29 <h1>Page Title2</h1>
30 </div><!-- /header -->
31
32 <div data-role="content">
33 <p>Page content goes here.</p>
34 </div><!-- /content -->
35
36 <div data-role="footer">
37 <h4>Page Footer2</h4>
38 </div><!-- /footer -->
39 </div><!-- /page -->
```

Result Download Files

Page Title1

Page content goes here. Hello World Myday

[Go to second page](#)

Page Footer1

www.compileonline.com/download.php

project.tar.gz

Show All

http://www.compileonline.com/try_jquerymobile_online.php

Try jQuery Mobile Online

www.compileonline.com/try_jquerymobile_online.php

compileonline.com - Try jQueryMobile online

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Result Preview HTML with jQuery Mobile Default Ace Editor

```
8 <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"
9 ></script>
10 </head>
11 <body>
12 <div data-role="page" id="first" data-theme="e">
13 <div data-role="header">
14 <h1>Page Title1</h1>
15 </div><!-- /header -->
16
17 <div data-role="content">
18 <p>Page content goes here. Hello World Myday</p>
19 <a href="#second">Go to second page</a>
20 </div><!-- /content -->
21
22 <div data-role="footer">
23 <h4>Page Footer1</h4>
24 </div><!-- /footer -->
25 </div><!-- /page -->
26
27 <div data-role="page" id="second" data-add-back-btn="true" data-theme="b">
28 <div data-role="header">
29 <h1>Page Title2</h1>
30 </div><!-- /header -->
31
32 <div data-role="content">
33 <p>Page content goes here.</p>
34 </div><!-- /content -->
35
36 <div data-role="footer">
37 <h4>Page Footer2</h4>
38 </div><!-- /footer -->
39 </div><!-- /page -->
40 </body>
41 </html>
42
```

Result Download Files

Page Title1

Page content goes here. Hello World Myday

[Go to second page](#)

Page Footer1

project.tar.gz Show All

Try jQuery Mobile Online

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compileonline.com - Try jQueryMobile online

Home Languages Web Editors About Help

Result Preview HTML with jQuery Mobile Default Ace Editor

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Page Title</title>
5     <meta name="viewport" content="width=device-width, initial-scale=1" />
6     <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
7     <link type="text/css" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel
8     ="stylesheet" />
9     <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"
10    ></script>
11   </head>
12   <body>
13     <div data-role="page" id="first" data-theme="e">
14       <div data-role="header">
15         <h1>Page Title1</h1>
16       </div><!-- /header -->
17       <div data-role="content">
18         <p>Page content goes here. Hello World Myday</p>
19         <a href="#second">Go to second page</a>
20       </div><!-- /content -->
21       <div data-role="footer">
22         <h4>Page Footer1</h4>
23       </div><!-- /footer -->
24     </div><!-- /page -->
25     <div data-role="page" id="second" data-add-back-btn="true" data-theme="b">
26       <div data-role="header">
27         <h1>Page Title2</h1>
28       </div><!-- /header -->
29       <div data-role="content">
30         <p>Page content goes here.</p>
31       </div><!-- /content -->
32     </div><!-- /page -->
33   </body>
34 </html>
```

Result Download Files

Back Page Title2

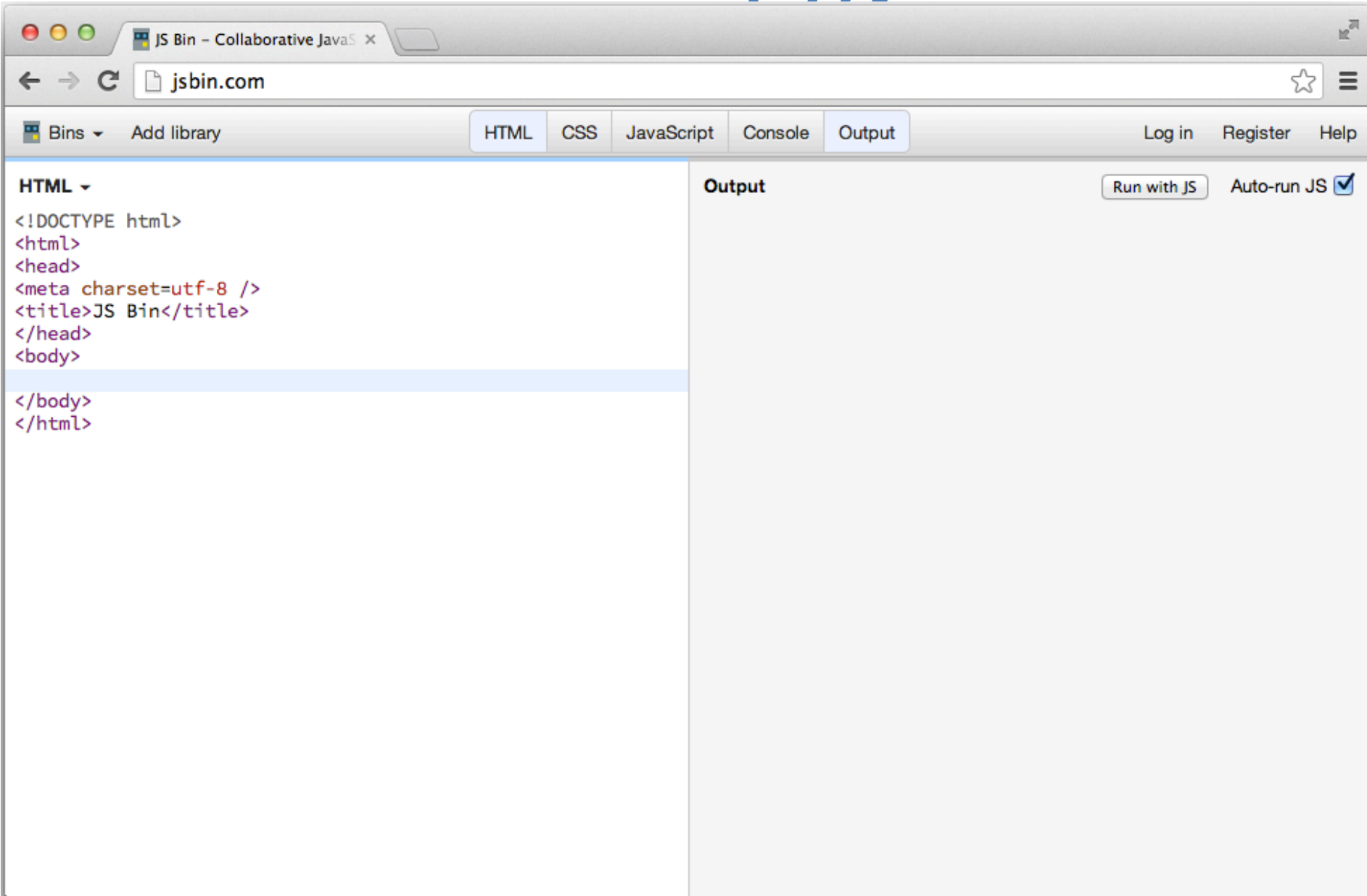
Page content goes here.

Page Footer2

project.tar.gz Show All

```
TextWrangler File Edit Text View Search Go Window #! Help
index.htm
File Path: ~/Downloads/Project1/index.htm
index.htm (no symbol selected)
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Page Title</title>
5 <meta name="viewport" content="width=device-width, initial-scale=1" />
6 <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
7 <link type="text/css" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel="stylesheet" />
8 <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="first" data-theme="a">
13 <div data-role="header">
14 <h1>Page Title1</h1>
15 </div><!-- /header -->
16
17 <div data-role="content">
18 <p>Page content goes here. Hello World Myday</p>
19 <a href="#second">Go to second page</a>
20 </div><!-- /content -->
21
22 <div data-role="footer">
23 <h4>Page Footer1</h4>
24 </div><!-- /footer -->
25 </div><!-- /page -->
26
27 <div data-role="page" id="second" data-add-back-btn="true" data-theme="b">
28 <div data-role="header">
29 <h1>Page Title2</h1>
30 </div><!-- /header -->
31
32 <div data-role="content">
33 <p>Page content goes here.</p>
34 </div><!-- /content -->
35
36 <div data-role="footer">
37 <h4>Page Footer2</h4>
38 </div><!-- /footer -->
39 </div><!-- /page -->
40 </body>
41 </html>
42
43
Recent Documents
index.htm
Line 18 Col 1 HTML Unicode (UTF-8) Unix (LF) Last saved: 13/9/30 上午06:40:32 1,455 / 154 / 43
```

Online Editor: <http://jsbin.com>



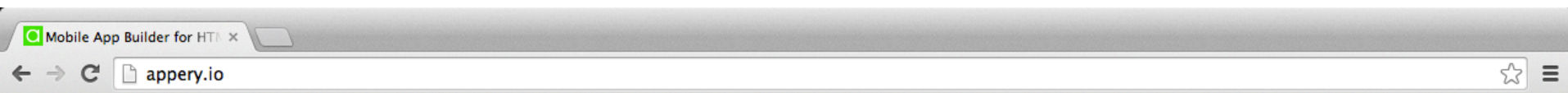
The screenshot shows a web browser window with the address bar displaying `jsbin.com`. The page title is "JS Bin - Collaborative JavaScript". The interface includes a navigation bar with tabs for "HTML", "CSS", "JavaScript", "Console", and "Output". The "HTML" tab is selected, showing a code editor with the following HTML code:

```
<!DOCTYPE html>
<html>
<head>
<meta charset=utf-8 />
<title>JS Bin</title>
</head>
<body>

</body>
</html>
```

The "Output" panel is empty. In the top right corner of the editor, there are buttons for "Run with JS" and "Auto-run JS" (checked).

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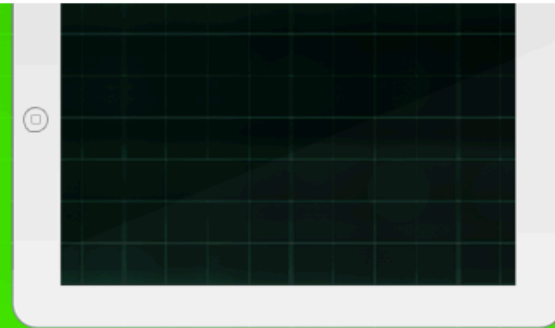
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The screenshot displays the Appery.io web-based IDE interface. At the top, the browser address bar shows the URL `appery.io/app/project/f044ff9d-24e0-4f68-9962-f855b35bff3e/editor`. The main interface is divided into several sections:

- Left Panel:** A project tree for "iMydayApp" showing folders for Project, App settings, Model and Storage, Pages (containing Screen1 and startScreen), Dialogs, Templates, Themes, CSS, Services, JavaScript, and Custom components. A "CREATE NEW" button is visible at the top of this panel.
- Top Bar:** Contains navigation and utility buttons: CLOSE, SAVE, EXPORT, TEST, Database, Push, Server Code, and user/notifications icons.
- Design Palette:** A central panel titled "PALETTE" with a "DESIGN" tab. It lists various UI controls under "CONTROLS": Button, Group Buttons, Input, Textarea, Datepicker, Label, Link, Radio, Checkbox, Slider, Toggle, Select, List, Image, Grid, and Navbar.
- Canvas:** A central workspace showing a mobile device mockup. The screen displays a green header bar with the text "Caption".
- Properties Panel:** A right-hand panel titled "PROPERTIES - Header" showing settings for the selected "Caption" element. It includes sections for OPERATIONS (Zoom Level set to 100), CUSTOM (Text: Caption, Swatch: Inherit, Back Button: unchecked, Back Button Text: Back, Position: fixed, Full Screen: unchecked), and COMMON (Name: mobileheader, Class Name: Enter Class Name). A "More properties" link is also present.

<http://appery.io/>

References

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- Native, Web or Hybrid Mobile Apps?,
<https://www.youtube.com/watch?v=Ns-JS4amITc>
- Porting your Apple iOS and Android Apps to HTML5,
<https://www.youtube.com/watch?v=-k43St4LCe0>
- jQuery Mobil: <http://jquerymobile.com/>
- PhoneGap: <http://phonegap.com/>
- Adobe PhoneGap Build: Package mobile apps in the cloud,
<https://build.phonegap.com/>
- Try jQueryMobile Online:
http://www.compileonline.com/try_jquerymobile_online.php
- Online Editor jsbin: <http://jsbin.com/>
- appery.io: <http://appery.io/>