Social Media Apps Programming

jQuery Mobile

1061SMAP06
TLMXM1A (8648) (M2143) (Fall 2017)
(MIS MBA) (2 Credits, Elective) [Full English Course]
Fri 8,9 (15:10-17:00) B206

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

2017-10-27
<table>
<thead>
<tr>
<th>Week</th>
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<tr>
<td>1</td>
<td>2017/09/22</td>
<td>Course Orientation and Introduction to Social Media and Mobile Apps Programming</td>
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<td>2</td>
<td>2017/09/29</td>
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<td>Developing Android Native Apps with Java (Android Studio)</td>
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<tr>
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<td>jQuery Mobile/Phonegap</td>
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<td>2017/11/24</td>
<td>Midterm Project Report</td>
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<td>2017/12/01</td>
<td>Case Study on Social Media Apps Programming and Marketing in Google Play and App Store</td>
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<td>Google Cloud Platform</td>
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<td>13</td>
<td>2017/12/15</td>
<td>Google App Engine</td>
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<td>14</td>
<td>2017/12/22</td>
<td>Google Map API</td>
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<td>15</td>
<td>2017/12/29</td>
<td>Facebook API (Facebook JavaScript SDK) (Integrate Facebook with iOS/Android Apps)</td>
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<td>16</td>
<td>2018/01/05</td>
<td>Twitter API</td>
</tr>
<tr>
<td>17</td>
<td>2018/01/12</td>
<td>Final Project Presentation</td>
</tr>
<tr>
<td>18</td>
<td>2018/01/19</td>
<td>Final Exam Week (Final Project Presentation)</td>
</tr>
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</table>
Outline

• jQuery Mobile
  – JavaScript Library
  – jQuery
  – jQuery UI

• Demo
  – Building Mobile Apps with JQuery Mobile
Android /iOS Apps Programming

Native Apps

Hybrid Apps

Mobile Web Apps
App Development Comparison

**Native Apps**
- Device Access: Full
- Speed: Very Fast
- Development Cost: Expensive
- App Store: Available
- Approval Process: Mandatory

**Hybrid Apps**
- Device Access: Full
- Speed: Native Speed as Necessary
- Development Cost: Reasonable
- App Store: Available
- Approval Process: Low Overhead

**Web Apps**
- Device Access: Partial
- Speed: Fast
- Development Cost: Reasonable
- App Store: Not Available
- Approval Process: None

Learn HTML5 and JavaScript for iOS: Web Standards-based Apps for iPhone, iPad, and iPod touch, Scott Preston, Apress, 2012

Source: http://www.amazon.com/Learn-HTML5-JavaScript-iOS-Standards-based/dp/1430240385
Mobile Web App

Source: Scott Preston, Learn HTML5 and JavaScript for iOS: Web Standards-based Apps for iPhone, iPad, and iPod touch, Apress, 2012
MVC Framework of Mobile Apps (HTML5, CSS3, JavaScript)

Source: http://sc5.io/blog/2012/02/anatomy-of-a-html5-app/
Progressive Web App (PWA)
Single-Page Application (SPA)
Responsive Web Design (RWD)
Responsive Front-end Framework
Google Material Design

Mobile frameworks and Libraries
A Touch-Optimized Web Framework

jQuery Mobile is a HTML5-based user interface system designed to make responsive web sites and apps that are accessible on all smartphone, tablet and desktop devices.

Seriously cross-platform with HTML5

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

Developer Links

- Source Code (GitHub)
- jQuery Mobile Git (WIP Build)
  - JavaScript
  - CSS
- Report an issue
- Browser Support
- ChangeLog

http://jquerymobile.com/
Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

Get started  Download

Currently v4.0.0-beta.2

http://getbootstrap.com/
React

A JavaScript library for building user interfaces

Get Started
Take the Tutorial

Declarative
React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the

Component-Based
Build encapsulated components that manage their own state, then compose them to make complex UIs.

Learn Once, Write Anywhere
We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

https://reactjs.org/
React Native

Learn once, write anywhere: Build mobile apps with React

Get Started  Learn the Basics

Build native mobile apps using JavaScript and React

React Native lets you build mobile apps using only JavaScript. It uses the same design as React, letting you compose a rich mobile UI from declarative components.

```javascript
import React, { Component } from 'react';
import { Text, View } from 'react-native';

class WhyReactNativeIsSoGreat extends Component {
  render() {
    return (
      <View>
        <Text>
          If you like React on the web, you'll like React Native.
        </Text>
      </View>
    );
  }
}
```

https://facebook.github.io/react-native/
Vue.js

The Progressive JavaScript Framework

Approachable

Already know HTML, CSS and JavaScript? Read the guide and start building things in no time!

Versatile

An incrementally adoptable ecosystem that scales between a library and a full-featured framework.

Performant

20KB min+gzip Runtime
Blazing Fast Virtual DOM
Minimal Optimization Efforts

https://vuejs.org/
PhoneGap:
Mobile Apps Powered by Open Web Tech

Build amazing mobile apps powered by open web tech.

https://phonegap.com/
Ionic: Framework for Developing Native and Progressive Web Apps

The top open source framework for building amazing mobile apps.

Ionic is the beautiful, free and open source mobile SDK for developing native and progressive web apps with ease.

Get started  Explore the docs

https://ionicframework.com/
Sencha Touch

The leading cross-platform mobile web application framework based on HTML5 and JavaScript for creating universal mobile apps.

Create native-looking HTML5 apps using JavaScript

Sencha Touch is the leading MVC-based JavaScript framework for building cross-platform mobile web applications. Sencha Touch leverages hardware acceleration techniques to provide high-performance UI components for mobile devices.

With over 50 built-in UI components and native looking themes for all major mobile platforms, Sencha Touch provides everything you need to create impressive apps that work on iOS, Android, BlackBerry, Windows Phone, and more. A novel and adaptive layout engine, fluid animations, and smooth scrolling features allow developers to build applications that respond to user actions nearly instantaneously, much like native

https://www.sencha.com/products/touch
Material Design Lite (MDL) is a library of components for web developers based on Google’s Material Design Philosophy: "A visual language for our users that synthesizes the classic principles of good design with the innovation and possibility of technology and science." Understanding the goals and principles of Material Design is critical to the proper use of the Material Design Lite components. If you have not yet read the Material Design Introduction you should do so before attempting to use the components.
MUI is a lightweight CSS framework that follows Google's Material Design guidelines

DOWNLOAD v0.9.1  VIEW ON GITHUB

Quickstart

You can copy-paste this boilerplate HTML to get started using MUI:

```html
<!doctype html>
<html>
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <!-- load MUI -->
    <link href="https://cdn.muicss.com/mui-0.9.1/css/mui.min.css" rel="stylesheet" type="text/css" />
  </head>
</html>
```

https://www.muicss.com/
Materialize

A modern responsive front-end framework based on Material Design

GET STARTED

beta release v0.100.2

90% Unlimited Downloads
Choose from Over 300,000 Vectors, Graphics & Photos.

http://materializecss.com/
Progressive Web Apps are user experiences that have the reach of the web, and are:

- **Reliable** - Load instantly and never show the downasaur, even in uncertain network conditions.
- **Fast** - Respond quickly to user interactions with silky smooth animations and no janky scrolling.
- **Engaging** - Feel like a natural app on the device, with an immersive user experience.

This new level of quality allows Progressive Web Apps to earn a place on the user’s home screen.
jQuery Mobile

A Touch-Optimized Web Framework

jQuery Mobile is a HTML5-based user interface system designed to make responsive web sites and apps that are accessible on all smartphone, tablet and desktop devices.

Seriously cross-platform with HTML5

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

http://jquerymobile.com/
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.

Source: http://jquerymobile.com/
jQuery

What is jQuery?

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

http://jquery.com/
jQuery

• jQuery is a fast, small, and feature-rich JavaScript library.

• jQuery is the most popular JavaScript library – versatility and extensibility

• It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers.

Source: [http://jquery.com/](http://jquery.com/)
jQuery UI

jQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library. Whether you're building highly interactive web applications or you just need to add a date picker to a form control, jQuery UI is the perfect choice.

**What's New in jQuery UI 1.12?**

**New theme:** New theme: Our long-time default grayscale theme Smoothness has been succeeded by a modern theme with some colors, less gradients and some other improvements.

**New widgets:** jQuery UI 1.12 includes widgets: Controlgroup replaces buttonset and adds support for selectmenu and the new checkboxradio widget. We've added support for using jQuery UI with AMD and Bower. We also have over 50 bug fixes.

http://jqueryui.com/
jQuery Mobile

• Seriously cross-platform with HTML5
• write less, do more

Source: [http://jquerymobile.com/](http://jquerymobile.com/)
Demos

Latest stable version

- jQuery Mobile 1.4.5 Demos

Legacy versions

- jQuery Mobile 1.3.2 Demos
- jQuery Mobile 1.2.1 Docs & Demos
- jQuery Mobile 1.1.2 Docs & Demos
- jQuery Mobile 1.0.1 Docs & Demos

Latest code

Work in progress demos, for testing.

- jQuery Mobile Demos on branch master

Source: http://jquerymobile.com/demos/
jQuery Mobile is a touch-optimized HTML5 UI framework designed to make responsive websites and apps that are accessible on all smartphone, tablet and desktop devices.
jQuery Mobile Demos

Icons

Listview widget
Loader widget
Navbar widget
Navigation
Pages
Panel widget
Popup widget
Rangeslider widget
Responsive Web Design

Selectmenu widget
Slider widget
Table widget
Tabs widget
Textinput widget
Theming

Widgets

Toolbox, Navbar
Tabs, Panel, Popup
Listview
Collapsible, Collapsible set
Table Reflow, Table Column Toggle
Filterable

CSS Framework

Theming
Buttons
Icons
Grids
Body and bar classes

Form widgets

Checkboxes, Radio buttons
Selectmenu, Custom menu
Flipswitch
Slider, Rangeslider
Input button
Controlgroup

Source: http://demos.jquerymobile.com/1.4.4/
jQuery Mobile Download

Download

Download Builder
We recommend using our tool to build a custom bundle that contains only the components you need. The builder generates a custom JavaScript file, as well as full and structure-only stylesheets for production use.

Download Builder

Latest stable version
1.4.5

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

- Zip File: jquery.mobile-1.4.5.zip (JavaScript, CSS, and images)

jQuery CDN provided by MaxCDN

JavaScript:
jQuery Mobile

Latest stable version
1.4.5

ZIP file

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

- Zip File: jquery.mobile-1.4.5.zip (JavaScript, CSS, and images)

jQuery CDN provided by MaxCDN

JavaScript:

- Uncompressed: jquery.mobile-1.4.5.js (useful for debugging)
- Minified and Gzipped: jquery.mobile-1.4.5.min.js (full library, ready to deploy)

CSS:

- Uncompressed with Default theme: jquery.mobile-1.4.5.css (useful for debugging)
- Minified and Gzipped with Default theme: jquery.mobile-1.4.5.min.css (full library, ready to deploy)
- Uncompressed structure without a theme: jquery.mobile-1.4.5.css (useful for theme development)
- Minified and Gzipped structure without a theme: jquery.mobile-1.4.5.min.css (to be used with custom theme and icon CSS, ready to deploy)

Copy-and-Paste snippet for jQuery CDN hosted files:

```
1 | <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
2 | <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
3 | <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
```
viewport

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Mobile App Title</title>
    <meta charset=utf-8 />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css">
    <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
  </head>
  <body>
  </body>
</html>
```
viewport

```html
<meta name="viewport" content="width=device-width, initial-scale=1">
```
<!DOCTYPE html>
<html>
  <head>
    <title>Mobile App Title</title>
    <meta charset=utf-8 />
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css">
    <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
  </head>
  <body>

  </body>
</html>
jQuery Mobile Page

http://jsbin.com/fozugopuxi/edit?html,output
jQuery Mobile Page

<!DOCTYPE html>
<html>
<head>
<title>jQuery Mobile App</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
<script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
<script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
</head>
<body>
<div data-role="page" id="page1">
  <div data-role="header" id = "header1">
    <h1>Hello jQuery Mobile</h1>
  </div>
  <div data-role="content" id="content1">
    <p>Simple jQuery Mobile App</p>
  </div>
  <div data-role="footer" id="footer1" data-position="fixed">
    <h4>Footer 2017</h4>
  </div>
</div>
</body>
</html>

http://jsbin.com/fozugopuxi/edit?html,output
<body>
  <div data-role="page" id="page1">
    <div data-role="header" id="header1">
      <h1>Hello jQuery Mobile</h1>
    </div>
    <div data-role="content" id="content1">
      <p>Simple jQuery Mobile App</p>
    </div>
    <div data-role="footer" id="footer1" data-position="fixed">
      <h4>Footer 2017</h4>
    </div>
  </div>
</body>

http://jsbin.com/fozugopuxi/edit?html,output
jQuery Mobile: Mobile Graded Browser Support

**Graded Browser Support**

We use a 3-level graded browser support system: A (full), B (full minus Ajax), C (basic HTML). The visual fidelity of the experience and smoothness of page transitions are highly dependent on the CSS rendering capabilities of the device and platform so not all A grade experience will be pixel-perfect but that's the nature of the web.

**A-grade** - Full enhanced experience with Ajax-based animated page transitions.

- **Apple iOS 4-8.1** – Tested on the original iPad (4.3 / 5.0), iPad 2 (7.2 / 8.1 / 6.1), iPad 3 (5.1 / 6.0), iPad Mini (7.1), iPad Retina (7.0), iPhone 3GS (4.3), iPhone 4 (4.3 / 5.1), iPhone 4S (5.1 / 6.0), iPhone 5 (6.0), iPhone 5S (7.0), iPhone 6 (8.1)
- **Android 5.0 (Lollipop)** – Tested on a Nexus 6
- **Android 4.4 (KitKat)** – Tested on a Nexus 5
- **Android 4.1-4.3 (Jelly Bean)** – Tested on a Galaxy Nexus and Galaxy 7
- **Android 4.0 (ICS)** – Tested on a Galaxy Nexus. Note: transition performance can be poor on upgraded devices
- **Android 3.2 (Honeycomb)** – Tested on the Samsung Galaxy Tab 10.1 and Motorola XOOM
- **Android 2.1-2.3** – Tested on the HTC Incredible (2.2), original Droid (2.2), HTC Aria (2.1), Google Nexus S (2.3). Functional on 1.5 & 1.6 but performance may be sluggish, tested on Google G1 (1.5)

Source: [http://jquerymobile.com/gbs/1.4/](http://jquerymobile.com/gbs/1.4/)
jQuery Mobile: Mobile Graded Browser Support

- jQuery Mobile has broad support for the vast majority of all modern desktop, smartphone, tablet, and e-reader platforms.
- A-grade — Full enhanced experience with Ajax-based animated page transitions.
  - Apple iOS 4-8.1
    - Tested on the original iPad (4.3 / 5.0), iPad 2 (7.2 / 8.1 / 6.1), iPad 3 (5.1 / 6.0), iPad Mini (7.1), iPad Retina (7.0), iPhone 3GS (4.3), iPhone 4 (4.3 / 5.1), iPhone 4S (5.1 / 6.0), iPhone 5 (6.0), iPhone 5S (7.0), iPhone 6 (8.1)
  - Android 5.0 (Lollipop)
    - Tested on a Nexus 6
  - Android 4.4 (KitKat)
    - Tested on a Nexus 5
  - Android 4.1-4.3 (Jelly Bean)
    - Tested on a Galaxy Nexus and Galaxy 7

jQuery Mobile is a framework for creating mobile web applications.

jQuery Mobile works on all popular smartphones and tablets.

jQuery Mobile uses HTML5 & CSS3 for laying out pages with minimal scripting.

Try jQuery Mobile by clicking the buttons above!

Source: http://www.w3schools.com/jquerymobile/default.asp
codiqa: drag-and-drop builder for mobile apps

Source: [http://jquerymobile.com/](http://jquerymobile.com/)
Build jQuery Mobile apps, the easy way.

Codiqa is a powerful drag-and-drop builder for creating cross-platform HTML5 mobile apps and websites. It's simple, easy to use, and so damn useful.

Get started now! Or try the demo

https://codiqa.com/
codiqa demo

https://codiqa.com/demo
<!-- Home -->
<div data-role="page" id="page1">
  <div data-theme="b" data-role="header">
    <h3>
      Header
    </h3>
  </div>
  <div data-role="content">
    <div style="">
      <img style="width: 50%; height: 50%" src="http://mail.tku.edu.tw/myday/image.png" />
    </div>
    <a data-role="button" href="#page1">
      Button
    </a>
  </div>
  <div data-theme="a" data-role="footer" data-position="fixed">
    <h3>
      Footer
    </h3>
  </div>
</div>

Source: http://jquerymobile.com/
```html
1. <!-- Home -->
2.  <div data-role="page" id="page1">
3.   <div data-theme="b" data-role="header">
4.    <h3>
5.      Tamkang U.
6.    </h3>
7.  </div>
8.  <div data-role="content">
10.   <a data-role="button" href="#page1">
11.     Button
12.   </a>
13. </div>
14. </div>
15.  <div data-theme="b" data-role="footer" data-position="fixed">
16.    <h3>
17.      Footer
18.    </h3>
19. </div>
20. </div>
```

Source: [http://jquerymobile.com/](http://jquerymobile.com/)
<html>
<head>
    <link href="http://code.jquery.com/mobile/latest/jquery.mobile.css" rel="stylesheet" type="text/css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/latest/jquery.mobile.js"></script>
    <meta charset="utf-8" />
    <title>JS Bin</title>
</head>
<body>
    <div data-role="page" id="page1">
        <div data-theme="b" data-role="header">
            <h3>Tamkang U.</h3>
        </div>
        <div data-role="content">
            <img src="https://maps.googleapis.com/maps/api/staticmap?center=No.151,Yiingzhang Rd.,Yansui,New Taipei,Taiwan&amp;zoom=14&amp;size=288x288&amp;markers=Taipei&amp;sensor=false" width="288" height="288">
            <a data-role="button" href="#page1">
                Button
            </a>
        </div>
        <div data-theme="b" data-role="footer" data-position="fixed">
            <h3>Footer</h3>
        </div>
    </div>
</body>
</html>
<!DOCTYPE html>
<html>
<head>
  <link href="http://code.jquery.com/mobile/latest/jquery.mobile.css" rel="stylesheet" type="text/css"/>
  <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
  <script src="http://code.jquery.com/mobile/latest/jquery.mobile.js"></script>
  <meta charset=utf-8 />
  <title>JS Bin</title>
</head>
<body>
<div data-role="page" id="page1">
  <div data-theme="b" data-role="header">
    <h3>
      Tamkang U.
    </h3>
  </div>
  <div data-role="content">
    <img src="https://maps.googleapis.com/maps/api/staticmap?center=No.151, Yingzhang Rd., Tamsui, New Taipei, Taiwan&amp;zoom=14&amp;size=288x200&amp;markers=Taipei&amp;sensor=false"
      width="288" height="200">
    <a data-role="button" href="#page1">
      Button
    </a>
  </div>
  <div data-theme="b" data-role="footer" data-position="fixed">
    <h3>
      Footer
    </h3>
  </div>
</div>
</body>
</html>
Get inspired: Built with jQuery Mobile

Source: http://jquerymobile.com/
Human impact
Stanford group explores competing interests of wildlife and people on the Galápagos Islands.

Improving diagnostics
Using MRI, Stanford researchers develop a way to quantitatively measure brain tissue.

Dreaming & hunting
Stanford research probes Aboriginal use of small fires to hunt.
Mobile website for Stanford University
http://m.stanford.edu

http://www.jqmgallery.com/2011/06/10/stanford/
<div data-role="page" id="first" data-theme="b">
  <div data-role="header">
    <h1>Page Header</h1>
  </div>
  <div data-role="content">
    <p>Page content goes here.</p>
    <a href="#second">Go to second page</a>
  </div>
  <div data-role="footer" data-position="fixed">
    <h4>Page Footer</h4>
  </div>
</div>
data-role="button"

<a href="#" data-role="button" data-icon="star">Star button</a>

Source: [http://view.jquerymobile.com/1.3.2/dist/demos/intro/](http://view.jquerymobile.com/1.3.2/dist/demos/intro/)
<ul data-role="listview" data-inset="true" data-filter="true">
  <li><a href="#">Acura</a></li>
  <li><a href="#">Audi</a></li>
  <li><a href="#">BMW</a></li>
  <li><a href="#">Cadillac</a></li>
  <li><a href="#">Ferrari</a></li>
</ul>
ListView Example

List Example

```html
<div data-role="page">
  <header data-role="header" data-theme="b">
    <h1>List Example</h1>
  </header>
  <section data-role="content">
    <h1>Basic List</h1>
    <ul data-role="listview">
      <li><a href="#">Link 1</a></li>
      <li><a href="#">Link 2</a></li>
    </ul>

    <h1>List with Counts</h1>
    <ul data-role="listview">
      <li><a href="#">Link 1</a><span class="ui-li-count ui-btn-up-c ui-btn-corner-all">11</span></li>
      <li><a href="#">Link 2</a><span class="ui-li-count ui-btn-up-c ui-btn-corner-all">22</span></li>
    </ul>

    <h1>List with Thumbnails</h1>
    <ul data-role="listview">
      <li><a href="index.html" class="ui-link-inherit">
          <img src="staufs_thumb.jpg" class="ui-li-thumb">
          <h3 class="ui-li-heading">Staufs</h3>
          <p class="ui-li-desc">Staufs Coffee</p>
        </a></li>
      <li><a href="index.html" class="ui-link-inherit">
          <img src="vino_vino_thumb.jpg" class="ui-li-thumb">
          <h3 class="ui-li-heading">Vino Vino</h3>
          <p class="ui-li-desc">Vino Vino Restaurant</p>
        </a></li>
    </ul>
  </section>
</div>
```

<form>
  <label for="textinput-s">Text Input:</label>
  <input type="text" name="textinput-s" id="textinput-s" placeholder="Text input" value="" data-clear-btn="true"/>

  <label for="select-native-s">Select:</label>
  <select name="select-native-s" id="select-native-s">
    <option value="small">One</option>
    <option value="medium">Two</option>
    <option value="large">Three</option>
  </select>

  <label for="slider-s">Input slider:</label>
  <input type="range" name="slider-s" id="slider-s" value="25" min="0" max="100" data-highlight="true"/>
</form>
data-theme="a"

Source: http://view.jquerymobile.com/1.3.2/dist/demos/intro/
data-icon="star"

Custom Icons

.ui-icon-myapp-email {
    background-image: url("app-icon-email.png");
}

white icon
18x18 pixels
PNG-8 with alpha transparency

Source: http://view.jquerymobile.com/1.3.2/dist/demos/widgets/icons/
jQuery Mobile Icon Pack

1. Choose your icons
   Click to add to your set. Clear

2. Preview your icon set
   Click an icon to remove it.

3. Download
   (CSS, LESS & SCSS files)
   Download Now

Source: http://jqmiconpack.andymatthews.net/
ThemeRoller for jQuery Mobile

http://jquerymobile.com/themeroller/
ThemeRoller for jQuery Mobile

http://jquerymobile.com/themeroller/
http://grandviewave.com
Demo
Building Mobile Apps with jQuery Mobile

http://jsbin.com
Mobile Myday

Dr. Min-Yuh Day is an Assistant Professor in the Department of Information Management at Tamkang University, Taiwan. Prior to joining the faculty at TKU in 2011, he was a Postdoctoral Fellow in the Intelligent Agent Systems Lab, Institute of Information Science, Academia Sinica.

Ph.D. Department of Information Management, National Taiwan University, 2001-2010
Dissertation: A Study of Evaluation

http://jsbin.com/IwOMezo
Online Editor: http://jsbin.com

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

http://jsbin.com
<!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" rel="stylesheet" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css"/>
    <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"></script>
  </head>

  <body 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">
        <img style="width: 50%; height: 50%;" src="http://mail.tku.edu.tw/myday/images/Myday_Photo.jpg">
      </div>

      <ul data-role="listview" data-inset="true" data-filter="true">
        <li data-role="listitem"><a href="#Vita">Vita</a></li>
        <li data-role="listitem"><a href="#Education">Education</a></li>
        <li data-role="listitem"><a href="#Research">Research</a></li>
        <li data-role="listitem"><a href="#Publications">Publications</a></li>
        <li data-role="listitem"><a href="#Teaching">Teaching</a></li>
        <li data-role="listitem"><a href="#ProfessionalActivities">Professional Activities</a></li>
      </ul>

      <a href="http://mail.tku.edu.tw/myday" data-role="button" data-icon="star">Classic Web</a>
    </div><!-- /content -->

    <div data-role="footer" data-position="fixed" data-theme="b">
      <h6>Mobile Myday © 2013</h6>
    </div><!-- /footer -->
</div><!-- /page 1 MyHome -->

http://jsbin.com/IwOMezo
<!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>
</head>

http://jsbin.com/IwOMezo
<body>
  <div data-role="page" id="first" data-theme="b">
    <div data-role="header" data-theme="b">
      <h1>Min-Yuh Day</h1>
      <a href="index.html" data-icon="home">Home</a>
    </div>
    <div data-role="content">
      <div style="text-align:center">
        <img style="width: 50%; height: 50%" src="http://mail.tku.edu.tw/myday/images/Myday_Photo.jpg">
      </div>
      <ul data-role="listview" data-inset="true" data-filter="true">
        <li><a href="#Vita">Vita</a></li>
        <li><a href="#Education">Education</a></li>
        <li><a href="#Research">Research</a></li>
        <li><a href="#Publications">Publications</a></li>
        <li><a href="#Teaching">Teaching</a></li>
        <li><a href="#ProfessionalActivities">Professional Activities</a></li>
      </ul>
      <a href="http://mail.tku.edu.tw/myday" data-role="button" data-icon="star">Classic Web</a>
    </div>
    <div data-role="footer" data-position="fixed" data-theme="b">
      <h4>Mobile Myday @ 2013</h4>
    </div>
  </div>
</body>

http://jsbin.com/IwOMezo
Dr. Min-Yuh Day is an Assistant Professor in the Department of Information Management at Tamkang University, Taiwan. ....</p>
<div data-role="page" id="Education" data-theme="b">
  <div data-role="header" data-position="inline" data-theme="b">
    <a data-icon="back" data-rel="back" back-btn="true">Back</a>
    <h1>Education</h1>
    <a href="#" data-icon="home">Home</a>
  </div> <!-- /header -->
  <div data-role="content">
    <ul data-role="listview" data-inset="true" data-filter="true">
      <li>
        <a href="#" class="ui-link-inherit">
          <h3 class="ui-li-heading">Ph.D.</h3>
          <p class="ui-li-desc">Department of Information Management, National Taiwan University, 2001-2010</p>
        </a>
      </li>
      <li>
        <a href="#" class="ui-link-inherit">
          <h3 class="ui-li-heading">M.B.A.</h3>
          <p class="ui-li-desc">Department of Information Management, Tamkang University, 1993-1995</p>
        </a>
      </li>
      <li>
        <a href="#" class="ui-link-inherit">
          <h3 class="ui-li-heading">B.B.A.</h3>
          <p class="ui-li-desc">Department of Information Management, Tamkang University, 1989-1993</p>
        </a>
      </li>
    </ul>
  </div> <!-- /content -->
  <div data-role="footer" data-position="fixed" data-theme="b">
    <h4>Mobile Myday @ 2013</h4>
  </div> <!-- /footer -->
</div> <!-- /page 3 Education -->
Dr. Min-Yuh Day is an Assistant Professor in the Department of Information Management at Tamkang University, Taiwan. Prior to joining the faculty at TKU in 2011, he was a Postdoctoral Fellow in the Intelligent Agent Systems Lab, Institute of Information Science, Academia Sinica. His Ph.D. dissertation was titled "A Study of Evaluation of Agent Systems."
Research Interests:

- Social Media Service
- Mobile Apps Marketing
- Data Mining and Text Mining
- Business Intelligence
- Big Data Analytics
- Information Systems Evaluation
- Question Answering Systems
- Knowledge Management
- Electronic Commerce
- Learning Technology
- Intelligent Information Systems
- Biomedical Informatics
Myday Teaching

<ul data-role="listview" data-inset="true" data-filter="true" data-filter-placeholder="Search courses..." data-theme="c">
  <li data-role="list-divider" data-theme="c">Fall 2013 (2013.09 - 2014.01)<span class="ui-li-count">3</span></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1021SMAP" rel="external">Social Media Apps Programming <br>(Fall 2013)</a></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1021CSIM4B" rel="external">Case Study for Information Management <br>(Fall 2013)</a></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1021IS" rel="external">Digital Information Services <br>(Fall 2013)</a></li>
  <li data-role="list-divider" data-theme="c">Spring 2013 (2013.02 - 2013.06)<span class="ui-li-count">4</span></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1012BIT" rel="external">Business Intelligence Trends <br>(Spring 2013)</a></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1012SMMM" rel="external">Social Media Marketing Management <br>(Spring 2013)</a></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1012DM" rel="external">Data Mining <br>(Spring 2013)</a></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1012ISM" rel="external">The Issue of Information Security Management <br>(Spring 2013)</a></li>
</ul>
Summary

• jQuery Mobile
  – JavaScript Library
  – jQuery
  – jQuery UI

• Demo
  – Building Mobile Apps with JQuery Mobile
References

• Learn HTML5 and JavaScript for iOS: Web Standards-based Apps for iPhone, iPad, and iPod touch, Scott Preston, Apress, 2012

• jQuery Mobile
  – http://jquerymobile.com/

• W3schools jQuery Mobile
  – http://www.w3schools.com/jquerymobile/default.asp