



for fun and profit



# Daniel Cousineau

Interactive Software Engineer @ RAPP

<http://dcousineau.com/>

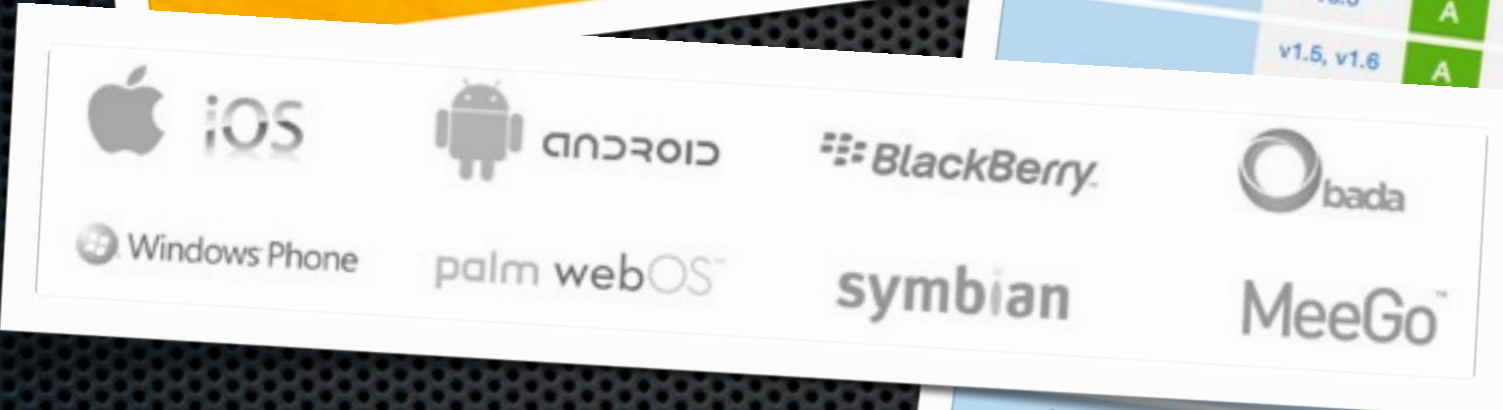
@dcousineau

dcousineau@gmail.com

# What Is jQuery Mobile?

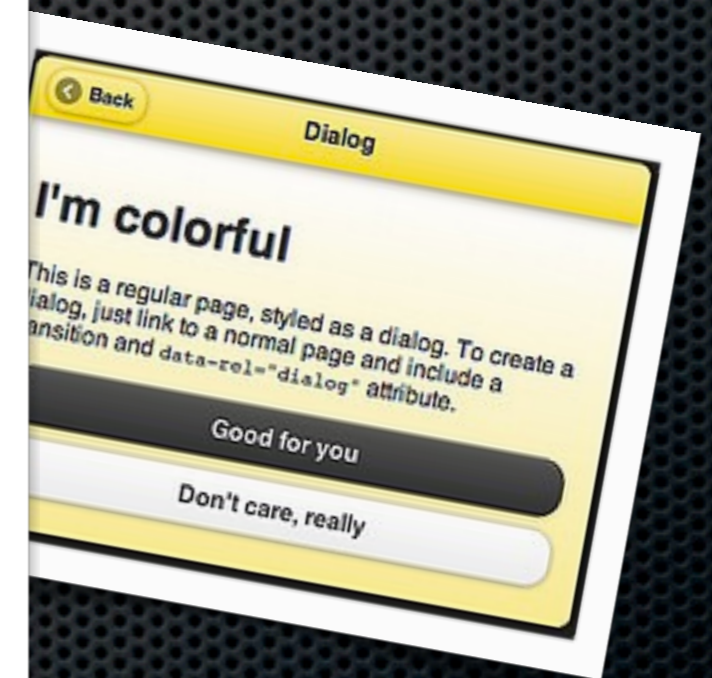
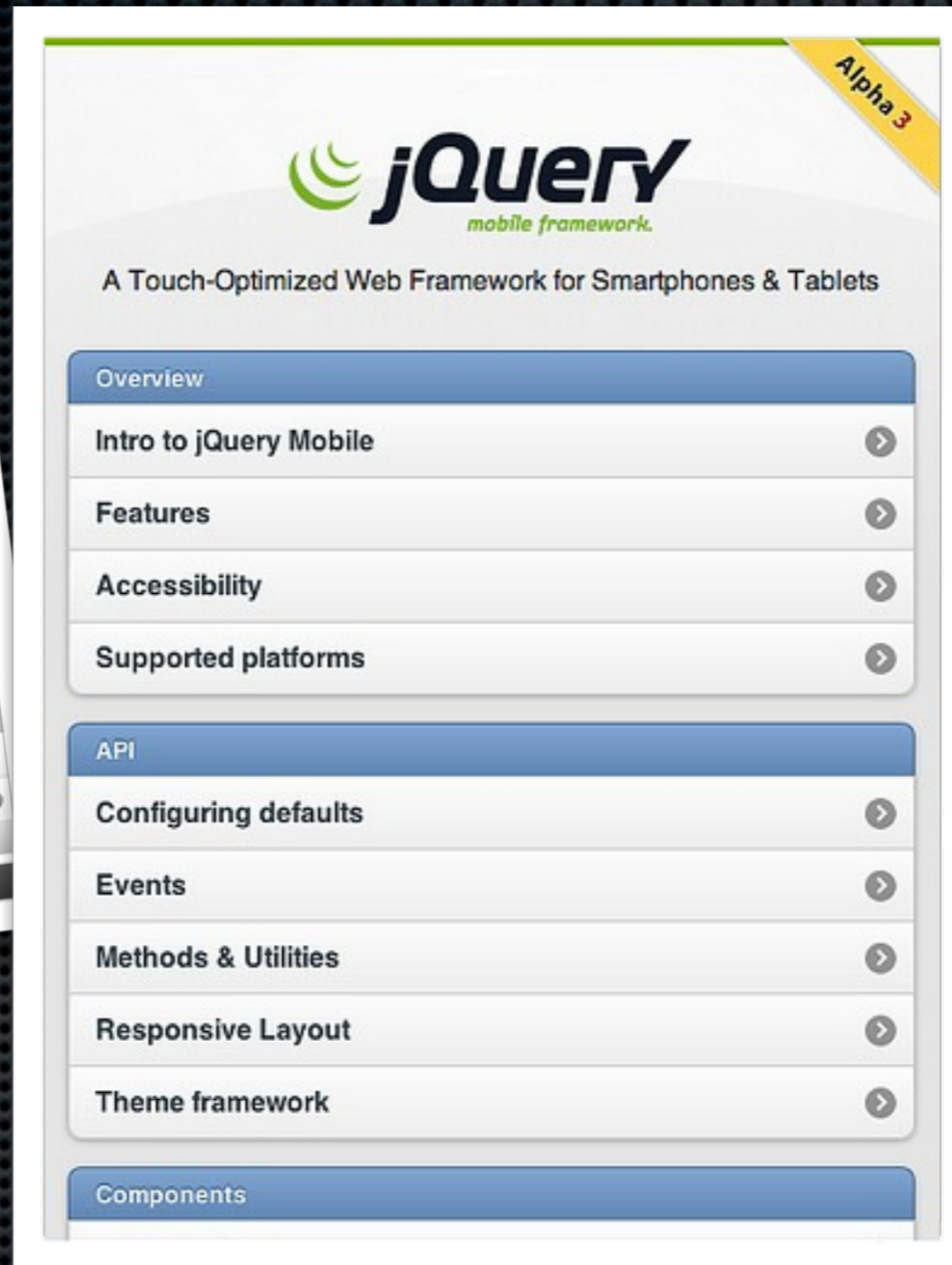
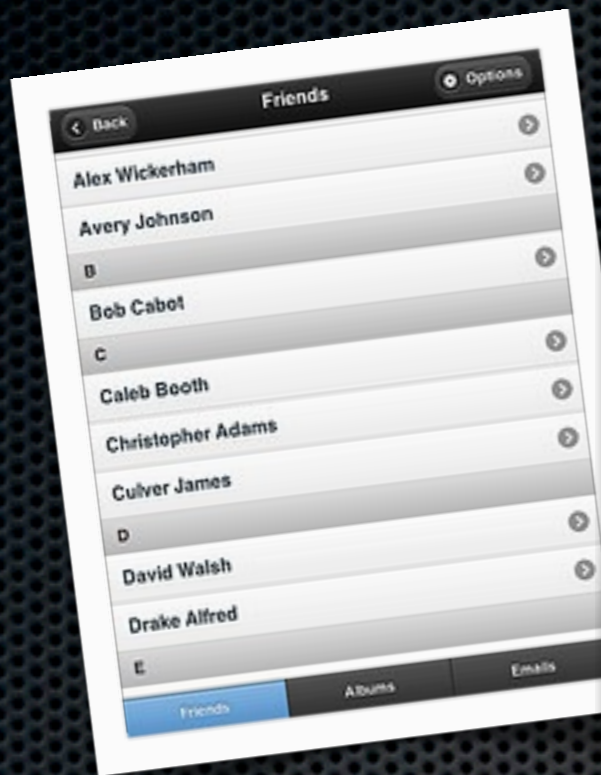


Platform	Version	Native	Opera Mobile				Opera Mini		Fennec	Ozone	Netfront	Phonegap
			8.5	8.65	9.5	10.0	4.0	5.0	1.0	1.1	0.9	4.0
iOS	v2.2.1	A										
	v3.1.3, v3.2	A										
	v4.0	A						A				A
Symbian S60	v3.1, v3.2	C	C	C								A
	v5.0	A	C	C		B	C	B				A
Symbian UIQ	v3.0, v3.1					A	C	A			C	C
	v3.2											A
Symbian Platform	3.0	A									C	C
BlackBerry OS	v4.5	C										
	v4.6, v4.7	C					C	C				
	v5.0	A					C	B				
	v6.0	A					C	A				
bada	v1.5, v1.6	A										
Maemo	1.0	A										
	5.0	B										A
MeeGo	1.1	A										



# Multi Platform

Images from jquerymobile.com



# Touch-optimized & Themable

# Mobile Web Framework

- ✦ **Unified User Interface**
- ✦ My Term: *Half Stack*
- ✦ Widget Library
- ✦ Touch Events

# Project Status

- ✦ As of April 7<sup>th</sup>: **ALPHA 4.1**
- ✦ Feature Complete
- ✦ Only Performance and Bug Fixes

# More Details

- ✦ Built on jQuery
- ✦ Lightweight (*12k compressed*)
- ✦ **Progressive Enhancement**
- ✦ HTML5
- ✦ Accessibility baked-in (WAI-ARIA)
- ✦ Theme-able
- ✦ Degradable, Simple 'Media Queries' (*no @media, no prob*)



# jQuery Mobile Primer

# Provided

- ✦ Interface elements
- ✦ Simple device orientation detection
- ✦ Tap & mobile events
  
- ✦ **DOES NOT PROVIDE** Geo Location, Canvas, Local Storage, etc.
  - ✦ Remember: **A 'HALF' STACK**



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <link rel="stylesheet" href="/path/to/jquery.mobile.css" />
    <script type="text/javascript" src="/path/to/jquery.js"></script>
    <script type="text/javascript" src="/path/to/jquery.mobile.js"></script>
  </head>
  <body>
    <div data-role="page">
      <div data-role="content">
        <p>Hello World.</p>
      </div>
    </div>
  </body>
</html>
```



```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello World</title>
    <script src="path/to/sencha-touch.js" type="text/javascript"></script>
    <link href="path/to/sencha-touch.css" rel="stylesheet" type="text/css" />
    <script type="text/javascript">
      new Ext.Application({
        launch: function() {
          new Ext.Panel({
            fullscreen: true,
            html: 'Hello World!'
          });
        }
      });
    </script>
  </head>
  <body></body>
</html>
```



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <link rel="stylesheet" href="/path/to/jquery.mobile.css" />
    <script type="text/javascript" src="/path/to/jquery.js"></script>
    <script type="text/javascript" src="/path/to/jquery.mobile.js"></script>
  </head>
  <body>
    <div data-role="page">
      <div data-role="content">
        <p>Hello World.</p>
      </div>
    </div>
  </body>
</html>
```

Semantic &  
Progressive Refinement



# Sencha

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello World</title>
    <script src="path/to/sencha-touch.js" type="text/javascript"></script>
    <link href="path/to/sencha-touch.css" rel="stylesheet" type="text/css" />
    <script type="text/javascript">
      new Ext.Application({
        launch: function() {
          new Ext.Panel({
            fullscreen: true,
            html: 'Hello World!'
          });
        }
      });
    </script>
  </head>
  <body></body>
</html>
```

# In The Beginning

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <link rel="stylesheet" href="/path/to/jquery.mobile.css" />
  <script type="text/javascript" src="/path/to/jquery.js"></script>
  <script type="text/javascript" src="/path/to/jquery.mobile.js"></script>
</head>
<body>

</body>
</html>
```

# Configuration

- ✦ Configuration ONLY in `mobileinit` listener
- ✦ All `mobileinit` listeners defined BEFORE loading jQuery Mobile

# In The Beginning

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <link rel="stylesheet" href="/path/to/jquery.mobile.css" />
  <script type="text/javascript" src="/path/to/jquery.js"></script>
  <script>
    $( document ).bind("mobileinit", function() {
      $.extend( $.mobile, {
        configurationKey: configurationValue
      });
    });
  </script>
  <script type="text/javascript" src="/path/to/jquery.mobile.js"></script>
</head>
<body>

</body>
</html>
```

# Think In Pages

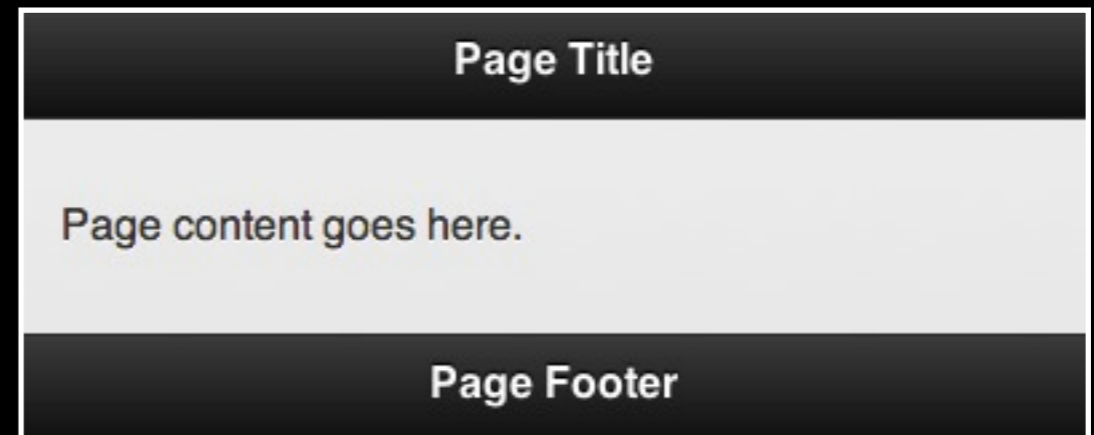
- ✦ `<div data-role="page" />`
- ✦ Only 1 visible at any time
- ✦ Multiple allowed per document
  - ✦ You can write a single-file application
- ✦ Contains header, footer, and content area



```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <link rel="stylesheet" href="/path/to/jquery.mobile.css" />
  <script type="text/javascript" src="/path/to/jquery.js"></script>
  <script>
    $( document ).bind("mobileinit", function() {
      $.extend( $.mobile, {} );
    });
  </script>
  <script type="text/javascript" src="/path/to/jquery.mobile.js"></script>
</head>
<body>
<div data-role="page">
  <div data-role="header">
    <h1>Page Title</h1>
  </div>

  <div data-role="content">
    <p>Page content goes here.</p>
  </div>

  <div data-role="footer">
    <h4>Page Footer</h4>
  </div>
</div>
</body>
</html>
```



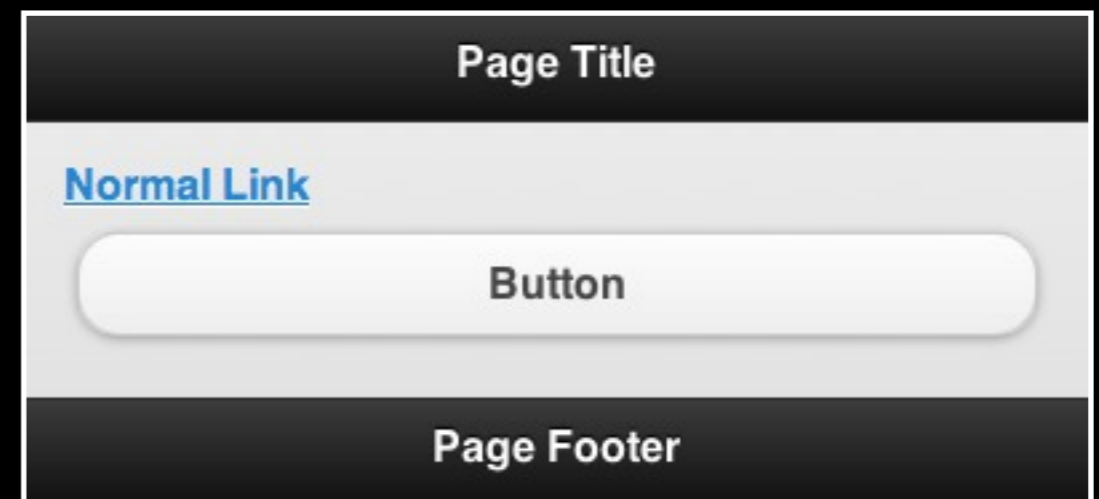
# Progressive Enhancement

- ✦ Uses the HTML5 `data-*` attributes to auto-enhance and configure widgets
- ✦ `data-role` is now the center of your world.
- ✦ E.g. To create a button, add a `<a href="#" data-role="button">LABEL</a>` and jQuery Mobile will automagically set it up during page creation.

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <link rel="stylesheet" href="/path/to/jquery.mobile.css" />
  <script type="text/javascript" src="/path/to/jquery.js"></script>
  <script>
    $( document ).bind("mobileinit", function() {
      $.extend( $.mobile, {} );
    });
  </script>
  <script type="text/javascript" src="/path/to/jquery.mobile.js"></script>
</head>
<body>
<div data-role="page">
  <div data-role="header">
    <h1>Page Title</h1>
  </div>

  <div data-role="content">
    <a href="#">Normal Link</a>
    <a href="#" data-role="button">Button</a>
  </div>

  <div data-role="footer">
    <h4>Page Footer</h4>
  </div>
</div>
</body>
</html>
```



# jQuery Mobile.com Docs

<http://jquerymobile.com/demos/1.0a4.1/>

Load jQueryMobile JS

mobileinit

domready

pagebeforecreate

Enhance Page

pagecreate

pagehide

pagebeforeshow

pagebeforehide

Navigate

pageshow

# Touch Events

- tap
- taphold
- swipe
- swipeleft
- swiperight
- orientationchange
- scrollstart
- scrollstop

# Auto-‘AJAX’

- ✦ By default, **all local** links get a click listener
- ✦ Can be disabled
- ✦ Overrides default action:
  - ✦ Fires XMLHttpRequest request for target
  - ✦ Pulls `<div data-role="page"></div>` from results, inserts into DOM
  - ✦ Transitions to displaying the new target page

# Auto-‘AJAX’

- ✦ By default, **all local** forms get a submission handler
- ✦ Same process as links, only overriding for form submit
- ✦ **WARNING:** The classic “Form Submit → 302 REDIRECT → Result/Target Page” workflow breaks



# Auto-‘AJAX’

- ✦ **CAUTION:** There is no official way to pass parameters to AJAX'ed pages
- ✦ Sever side via GET requests to back-end
- ✦ Use #page?key=value, manually parse window.location
- ✦ Disable / override hash listener

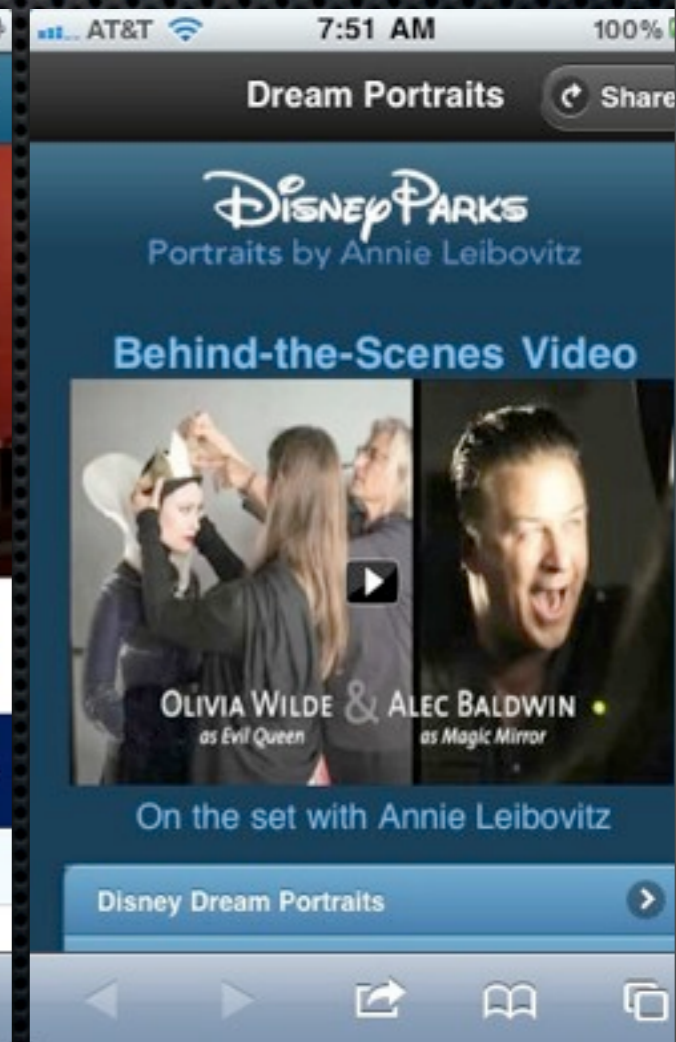
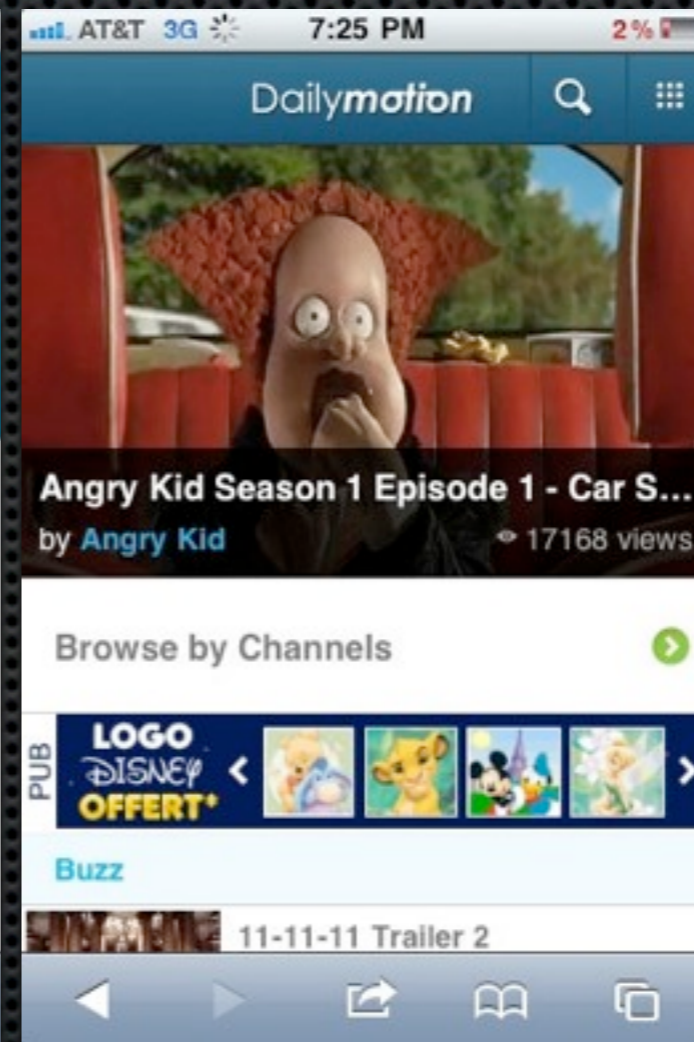
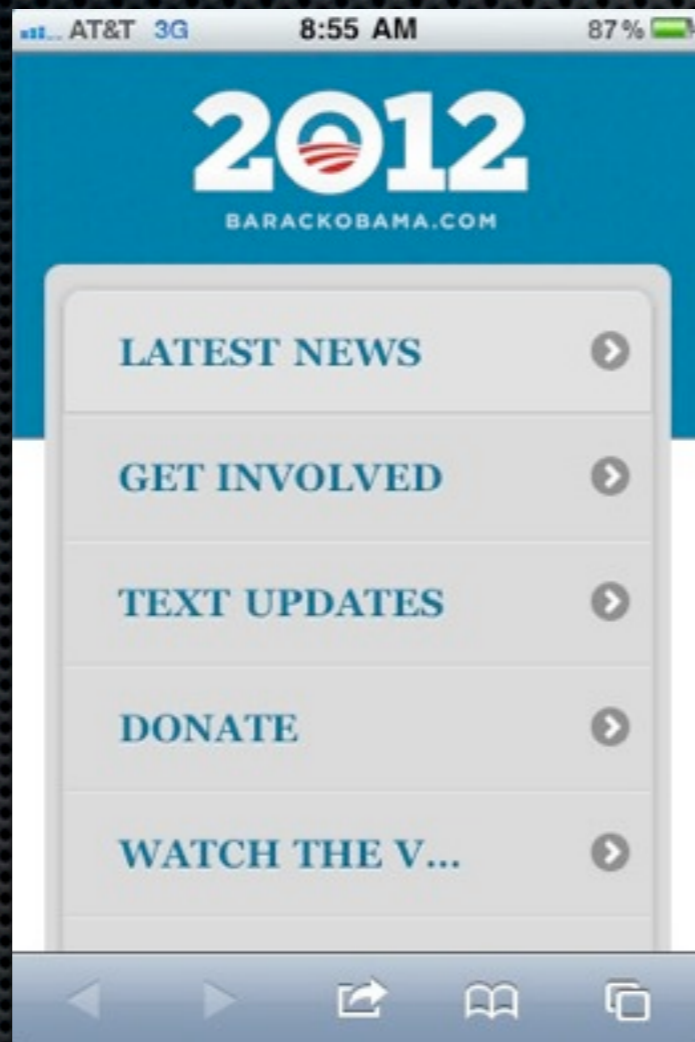
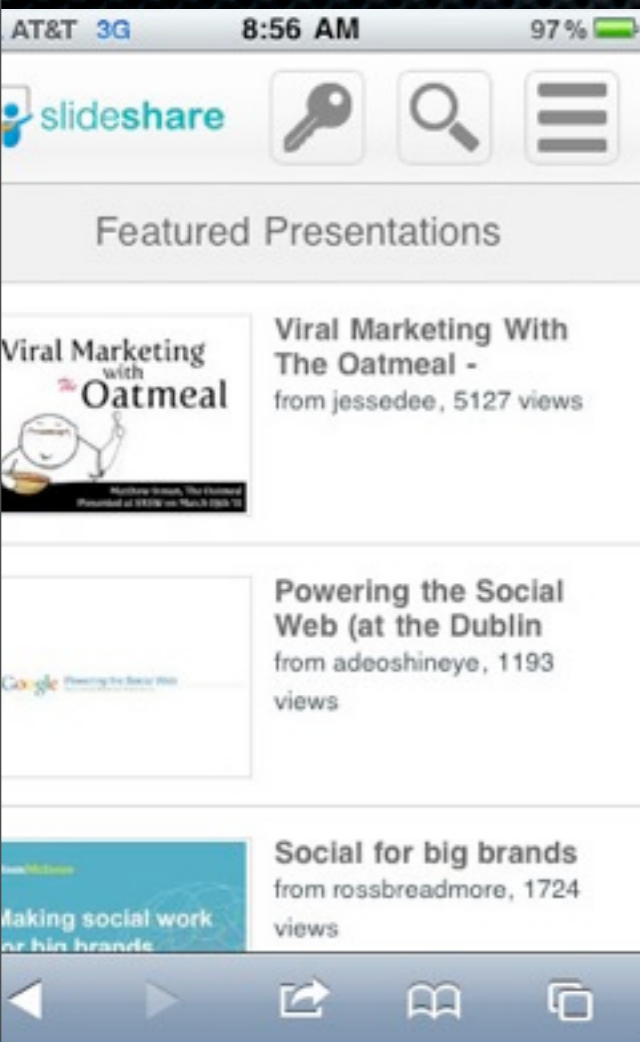
# Learn By Doing

# Code Time...

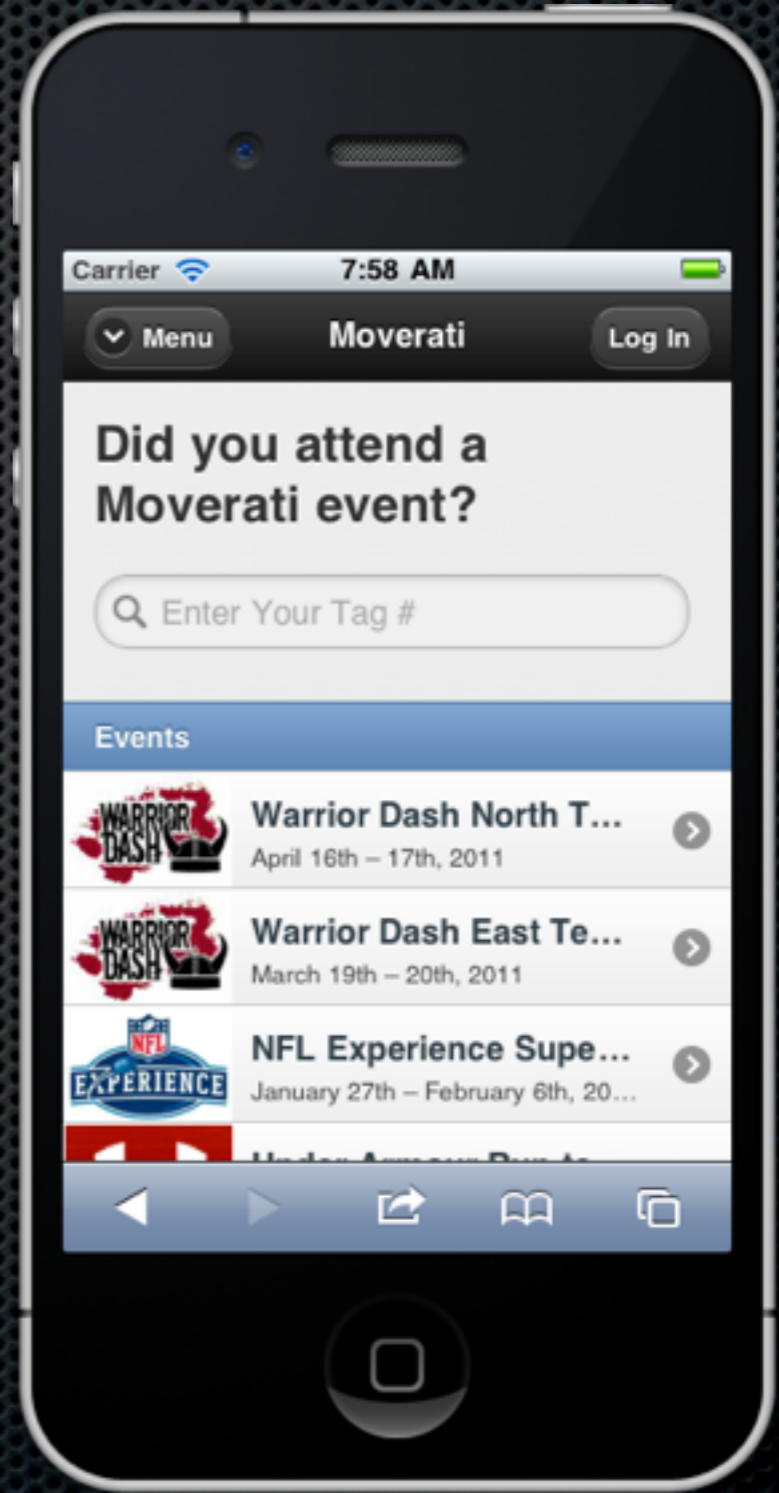
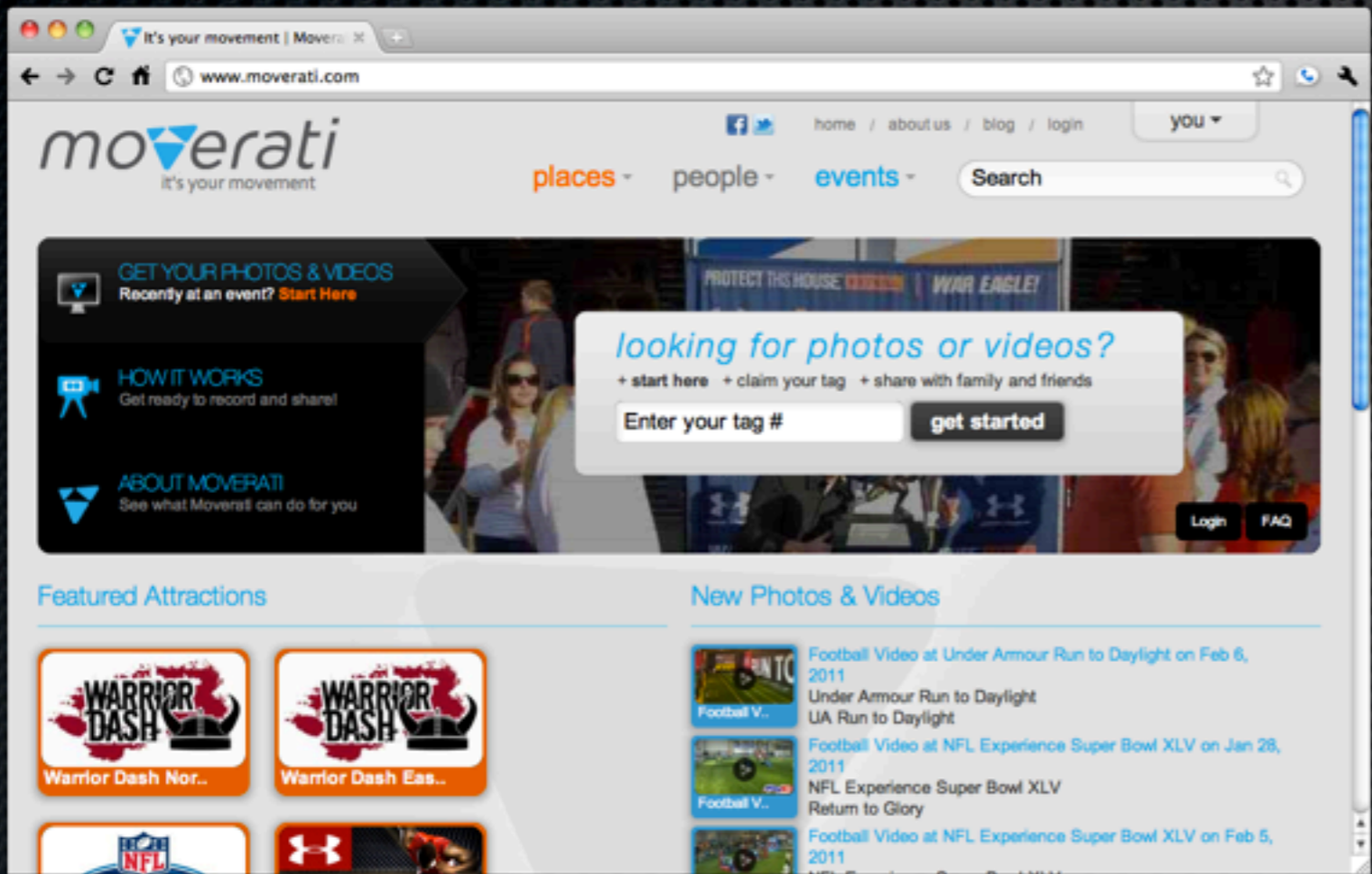
<https://github.com/dcousineau/jQuery-Mobile-For-Fun-And-Profit>

<http://jquerymobile.com/demos/1.0a4.1/>

# Wrap Up



<http://jqmgallery.com/>



# Resources

- ✦ @jquerymobile
- ✦ <http://jquerymobile.com/blog/>
- ✦ <http://jquerymobile.com/demos/1.0a4.1/>

# Advanced Learning

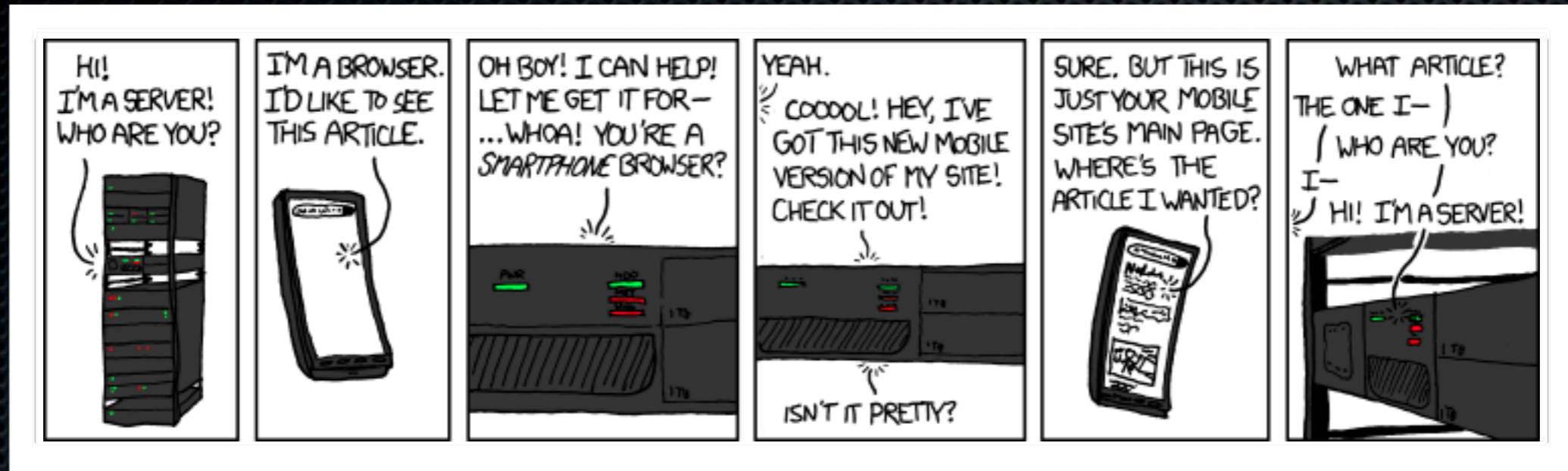
- ✦ **Dynamic Page Navigation & Parameters**

- ✦ <https://developers.jivesoftware.com/community/blogs/engineering/2011/04/15/jivin-with-jquery-mobile-inter-page-navigation>

- ✦ **Panel / iPad Ready Layouts**

- ✦ <http://asyraf9.github.com/jquery-mobile/>





<http://jquerymobile.com/>

