

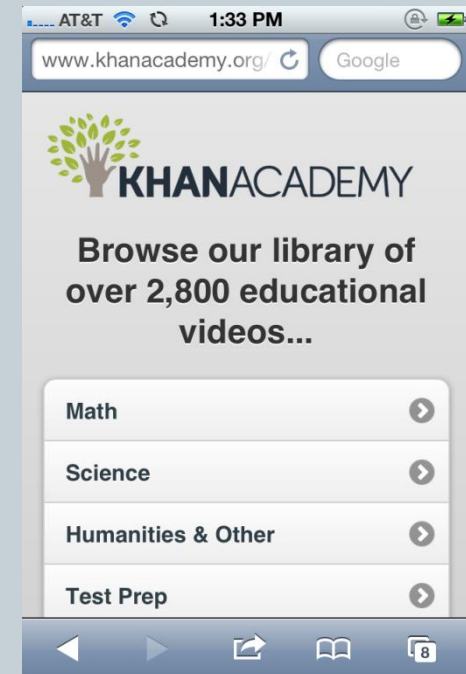
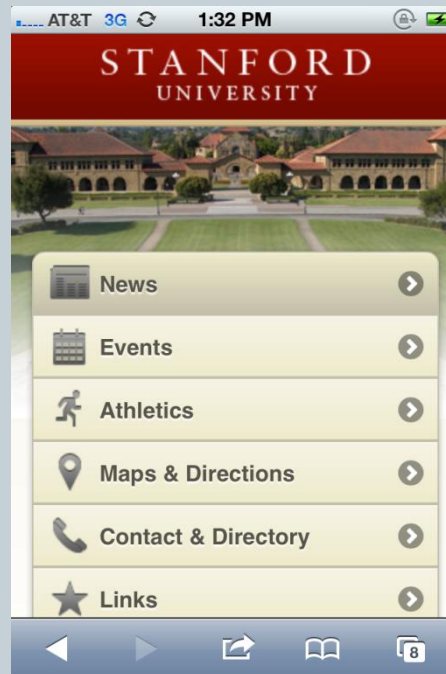
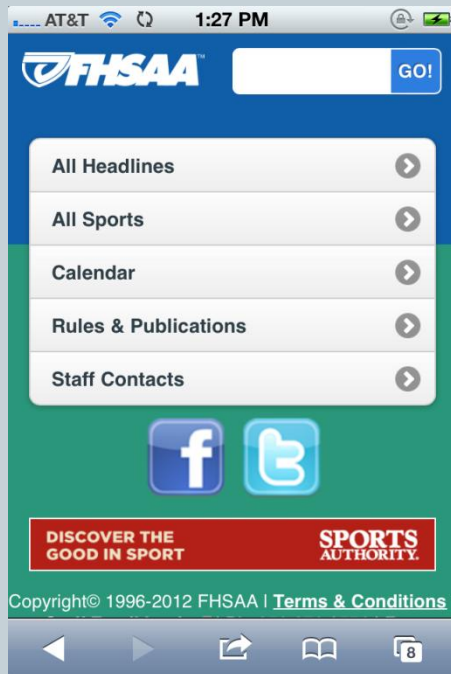


**FLORIDA
DRUPAL CAMP**
FEBRUARY 11 & 12, 2012
ROLLINS COLLEGE • WINTER PARK, FL

Building a mobile site in 45 minutes using Mobile Tools and JQuery Mobile



BY MICHAEL HERCHEL





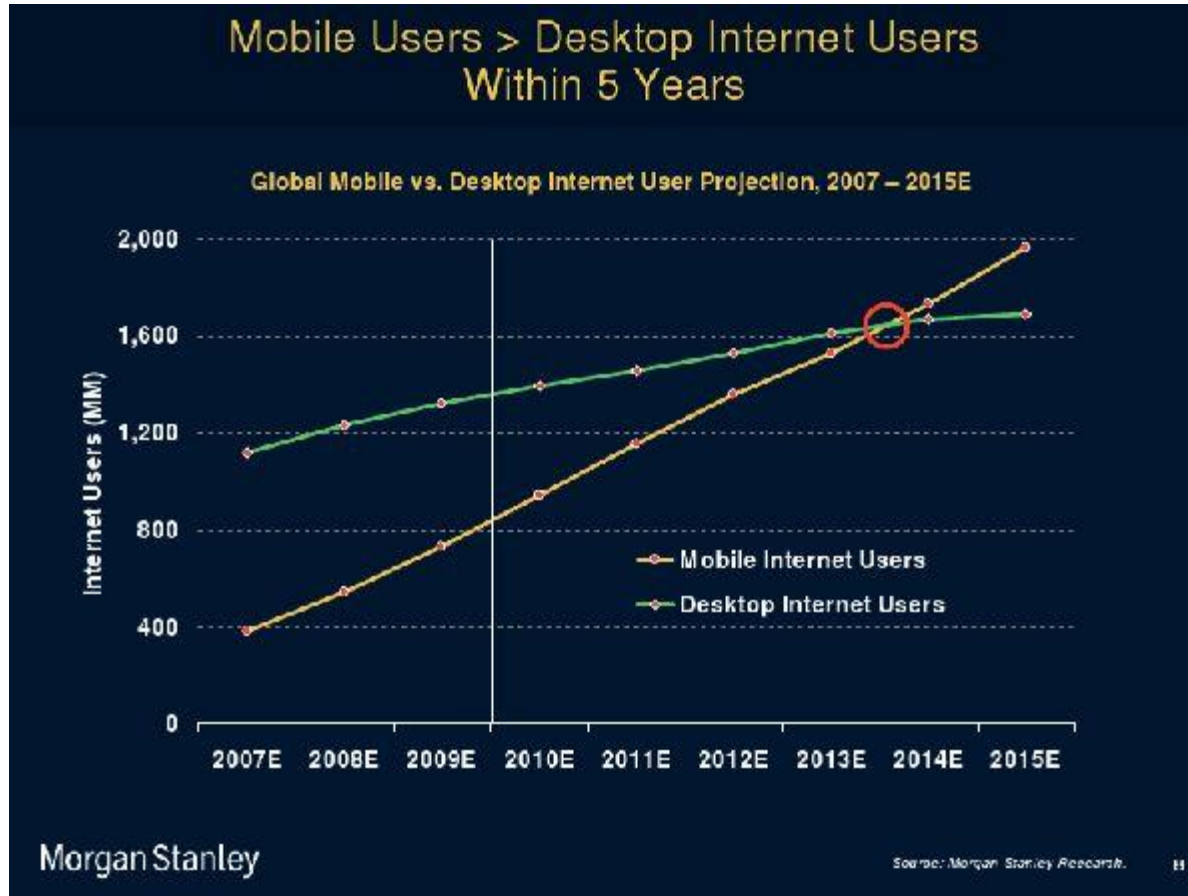
Goal of This Presentation



- Create a basic JQuery Mobile (JQM) mobile site with navigation using Drupal 7, JQuery Mobile.
- Set up redirection using Mobile Tools
- Convince the user (you!) that there's absolutely **NO** reason that you should not have a mobile site :)



Why Mobile?





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Mobile Website Strategies

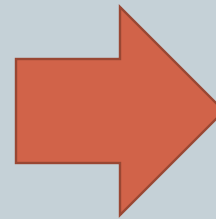


1. Responsive Website Design
2. Dedicated Mobile Website
3. No Mobile Website

Responsive Website Design



- Uses CSS3 to automatically adjust page to smaller screen





Responsive Web Design



- **Pros**

- Only have to worry about one theme
- Do not have to worry about device detection and redirection
- Its the 'hip' way of doing things :)

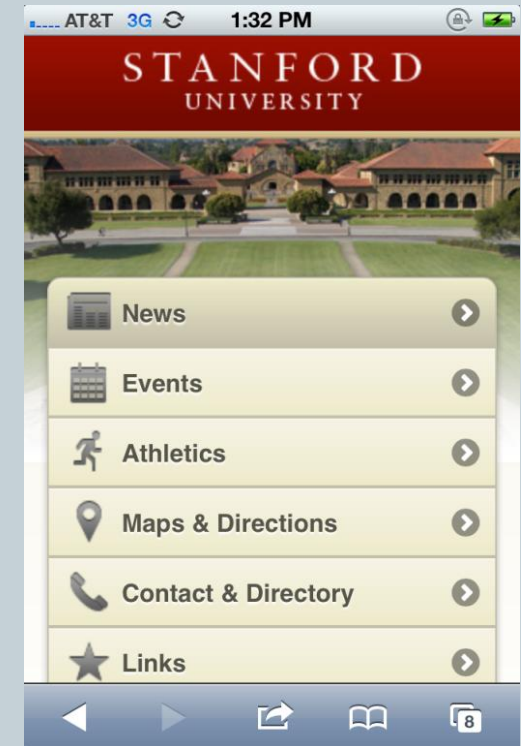
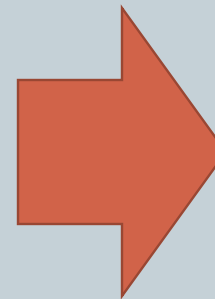
- **Cons**

- Can not change data between mobile and desktop versions
- Difficult to implement (especially with content rich layouts)

Dedicated Mobile Site



- Uses device detection and redirection to automatically transfer mobile device to a completely separate website (usually *m.domainname.com*)





Dedicated Mobile Site

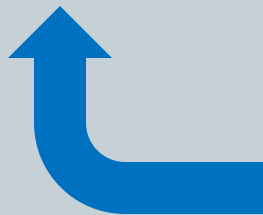


- **Pros**

- Can serve different (simplified) content to mobile users
- If you have a desktop theme in place, this is easier to implement.

- **Cons**

- You manage two different themes: one desktop, one mobile
- You have to set mobile device detection
- You have to set up mobile device *redirection*



Drupal Makes This Easy!



Tools – JQuery Mobile (JQM)



- **What is JQuery Mobile**

- 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.
- Touch optimized
- Works on ALL mobile devices
- Large community
- <http://jquerymobile.com/>



Jquery Mobile Markup



```
<link rel="stylesheet"  
href="//code.jquery.com/mobile/1.0.1/jquery.mobile-  
1.0.1.min.css" />
```

```
<script  
src="//code.jquery.com/mobile/1.0.1/jquery.mobile-  
1.0.1.min.js"></script>
```



Jquery Mobile Markup



```
1 <div data-role="content">
2     <div class="content-primary">
3         <ul data-role="listview">
4             <li data-role="list-divider">Friday, October 8, 2010 <span class="ui-li-count">2</span></li>
5             <li><a href="index.html">
6                 <h3>Stephen Weber</h3>
7                 <p><strong>You've been invited to a meeting at Filament Group in Boston, MA</strong></p>
8                 <p>Hey Stephen, if you're available at 10am tomorrow, we've got a meeting with the jQuery team.</p>
9                 <p class="ui-li-aside"><strong>6:24</strong>PM</p>
10            </a></li>
11            <li><a href="index.html">
12                <h3>jQuery Team</h3>
13                <p><strong>Boston Conference Planning</strong></p>
14                <p>In preparation for the upcoming conference in Boston, we need to start gathering a list of sponsors and speake
15                <p class="ui-li-aside"><strong>9:18</strong>AM</p>
16            </a></li>
17            <li data-role="list-divider">Thursday, October 7, 2010 <span class="ui-li-count">1</span></li>
18            <li><a href="index.html">
19                <h3>Avery Walker</h3>
20                <p><strong>Re: Dinner Tonight</strong></p>
21                <p>Sure, let's plan on meeting at Highland Kitchen at 8:00 tonight. Can't wait! </p>
22                <p class="ui-li-aside"><strong>4:48</strong>PM</p>
23            </a></li>
24            <li data-role="list-divider">Wednesday, October 6, 2010 <span class="ui-li-count">3</span></li>
25            <li><a href="index.html">
26                <h3>Amazon.com</h3>
27                <p><strong>4-for-3 Books for Kids</strong></p>
28                <p>As someone who has purchased children's books from our 4-for-3 Store, you may be interested in these featured
29                <p class="ui-li-aside"><strong>12:47</strong>PM</p>
30            </a></li>
31        </ul>
32    </div>
33 </div>
```



Before / After JQM



- Friday, October 8, 2010 2

- **[Stephen Weber](#)**

[You've been invited to a meeting at Filament Group in Boston, MA](#)

[Hey Stephen, if you're available at 10am tomorrow, we've got a meeting with the jQuery team.](#)

[6:24PM](#)

- **[jQuery Team](#)**

[Boston Conference Planning](#)

[In preparation for the upcoming conference in Boston, we need to start gathering a list of sponsors and speakers.](#)

[9:18AM](#)

- Thursday, October 7, 2010 1

- **[Avery Walker](#)**

[Re: Dinner Tonight](#)

[Sure, let's plan on meeting at Highland Kitchen at 8:00 tonight. Can't wait!](#)

[4:48PM](#)

- Wednesday, October 6, 2010 3



Friday, October 8, 2010

2

Stephen Weber

6:24PM

You've been invited to a meeting at Filament Group in Boston, MA

Hey Stephen, if you're available at 10am tomorrow, we've got a meeting with th...

jQuery Team

9:18AM

Boston Conference Planning

In preparation for the upcoming conference in Boston, we need to start gatheri...

Thursday, October 7, 2010

1

Avery Walker

4:48PM

Re: Dinner Tonight

Sure, let's plan on meeting at Highland Kitchen at 8:00 tonight. Can't wait!

Wednesday, October 6, 2010

3

Amazon.com

12:47PM

4-for-3 Books for Kids

As someone who has purchased children's books from our 4-for-3 Store, you ...

Mike Taylor

6:24AM

Re: This weekend in Maine

Hey little buddy, sorry but I can't make it up to vacationland this weekend. Mayb...



Tools We'll Be Using



- Mobile JQuery Base Theme
 - http://drupal.org/project/mobile_jquery
- JQuery Mobile UI Module
 - http://drupal.org/project/jquermobile_ui
- Mobile Tools Module
 - http://drupal.org/project/mobile_tools
- JQuery Mobile Views Integration
 - http://drupal.org/project/views_jqm



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Demo-Time



- During this demonstration, I will walk the attendees through creating a simple JQuery Mobile sub-theme, and will enable mobile tools automatic detection and redirection.



- Add the following into your theme's template.php (create this if it doesn't exist) to automatically make all menu blocks inherit the JQM list-style

```
<?php
// http://drupal.org/node/1407882
function YOURTHEME_menu_tree($variables) {
  return '<ul class="menu" data-role="listview" data-
inset="true">' . $variables['tree'] . '</ul>';
}
```



CSS for Menu Blocks



- Add this to your CSS if you are using a menu as a block.

```
ul.menu li {padding: 0; margin: 0;}
```




Tip on changing JQM themes



- Don't forget to check the box "Use Global Theme" if you change your theme's global theme under admin/appearance/settings/YOURTHEME

JQUERY MOBILE CONFIGURATION

Rebuild theme registry for every page.
Note: Not recommended for production use.

Use global theme
This option forces all items to be set to the same switch rather than set each item individually.

Viewport
width=device-width; initial-scale=1; maximum-scale=1.0; minimum-s
Modify the viewport as needed.

GLOBAL SETTINGS

Global Theme (data-theme)
White

Inset Style Lists/Menus (data-inset)
 True
 False

Split Button Icon (data-split-icon)
Search



- Disable the frontpage 'River of News' feature within the JQueryMobile_UI module if not being used





Tip on Google Analytics



- Google Analytics will not report pageviews correctly if AJAX is enabled in the JQueryMobile_UI module.
 - Set **ajaxEnabled** to False
 - Or Add following code to your theme's html.tpl.php directly above the closing body tag. See <http://drupal.org/node/1301000>

```
<script>
jqm('[data-role=page]').live('pageshow', function (event, ui) {
  try {
    _gaq.push(['_setAccount', 'YOUR_UA_CODE']);
    hash = location.hash;
    if (hash) {
      _gaq.push(['_trackPageview', hash.substr(1)]);
    } else {
      _gaq.push(['_trackPageview']);
    }
  } catch(err) {
  }
});
</script>
```