

# Building Mobile Apps by Example



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# <http://drupal.org/u/tyler.frankenstein>

- Drupal Developer *(7+ Years)*
- Easy Street 3 Co-Founder *(June 2010 - Present)*
- U.M. Library Drupal Developer *(Feb 2011 - May 2013)*
- Drupal Contributor *(10+ Modules)*
- DrupalCon Austin 2014 *(Co-Presenter w/ Commerce Guys)*
- DrupalGap *(Creator / Lead Developer)*

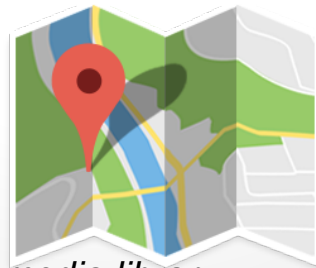
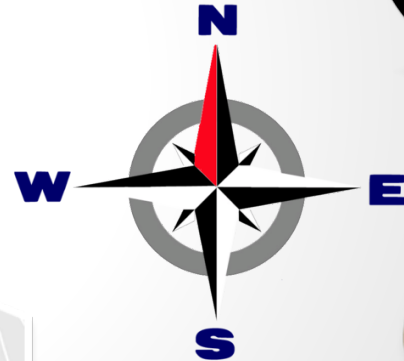


**“I already have a responsive,  
mobile friendly Drupal website...”**

“...why would I want a mobile application?”

# Mobile Application Device Features

- Accelerometer
- Audio Capture
- Camera\*
- Contact List
- GPS
- Notifications
- Offline Storage



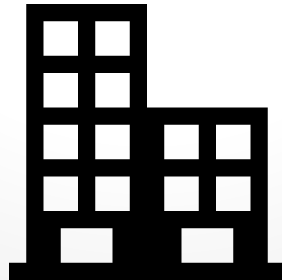
\* Take a photo, record video, and browse local media library.

# Build 2 Example Mobile Apps

1. *GeoTag a Photo and Upload it*



2. *GeoLocate Nearby Content and Display on Map*



# Tools Involved



# Why Drupal?



*Drupal let's us easily manage our...*



Users



Content



Files

# Why PhoneGap?

*It let's us utilize familiar web technologies like...*



Phone**Gap**

**HTML**



**JS**



**CSS**



*and then ...*



# Compiles them into Mobile Apps

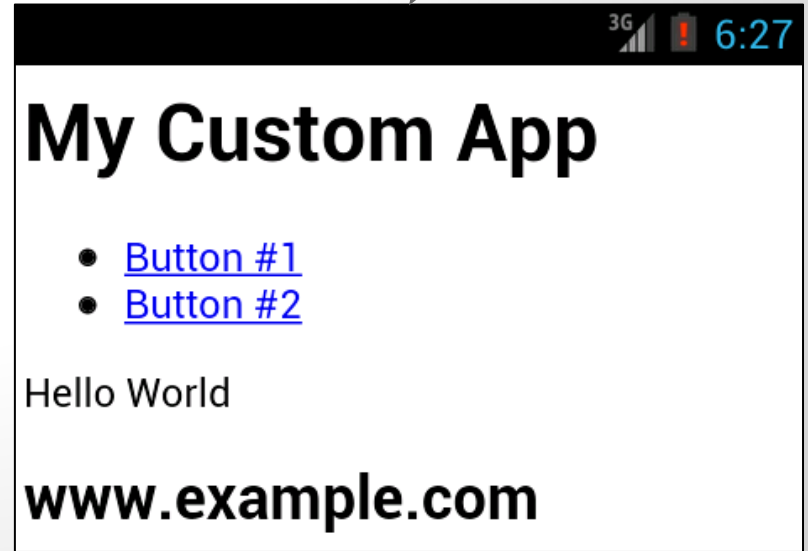


# If we know HTML, CSS and JavaScript, then...

```
<html>
  <body>
    <h1>My Custom App</h1>
    <ul>
      <li><a href="#">Button #1</a></li>
      <li><a href="#">Button #2</a></li>
    </ul>
    <p>Hello World</p>
    <h2>www.example.com</h2>
  </body>
</html>
```



PhoneGap

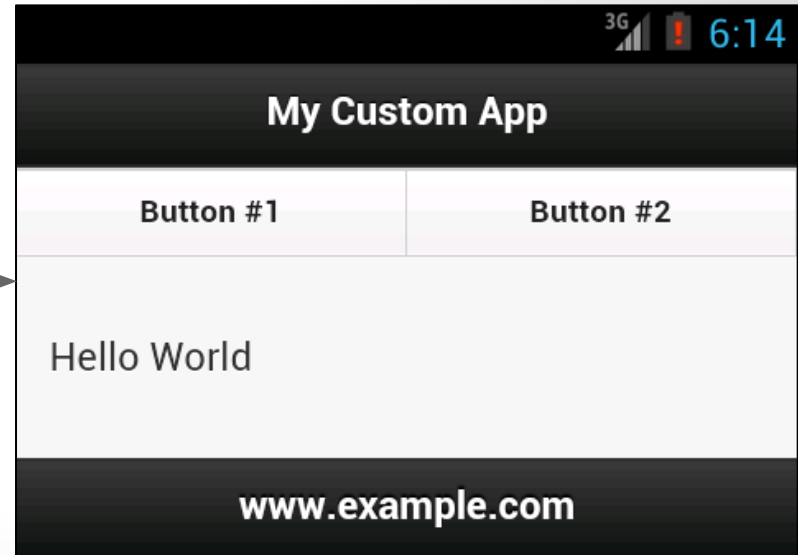
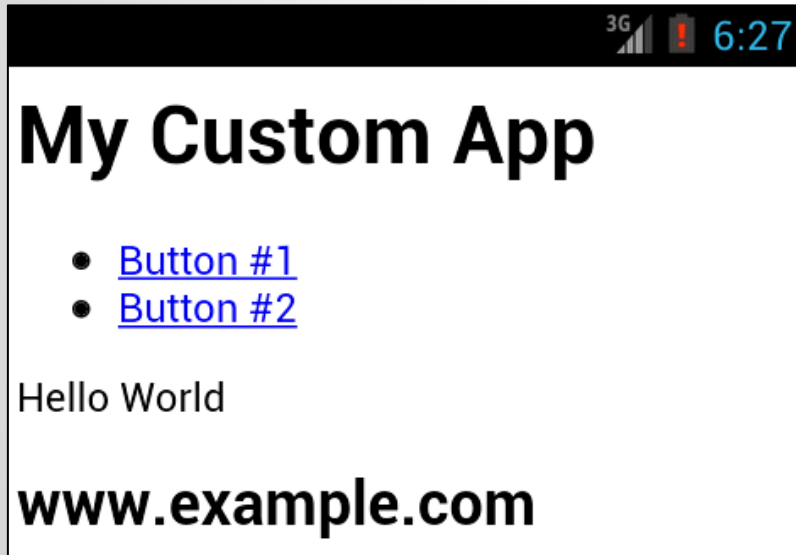


... we can build mobile apps.

# Why jQuery Mobile?



*jQuery Mobile takes simple HTML and...*

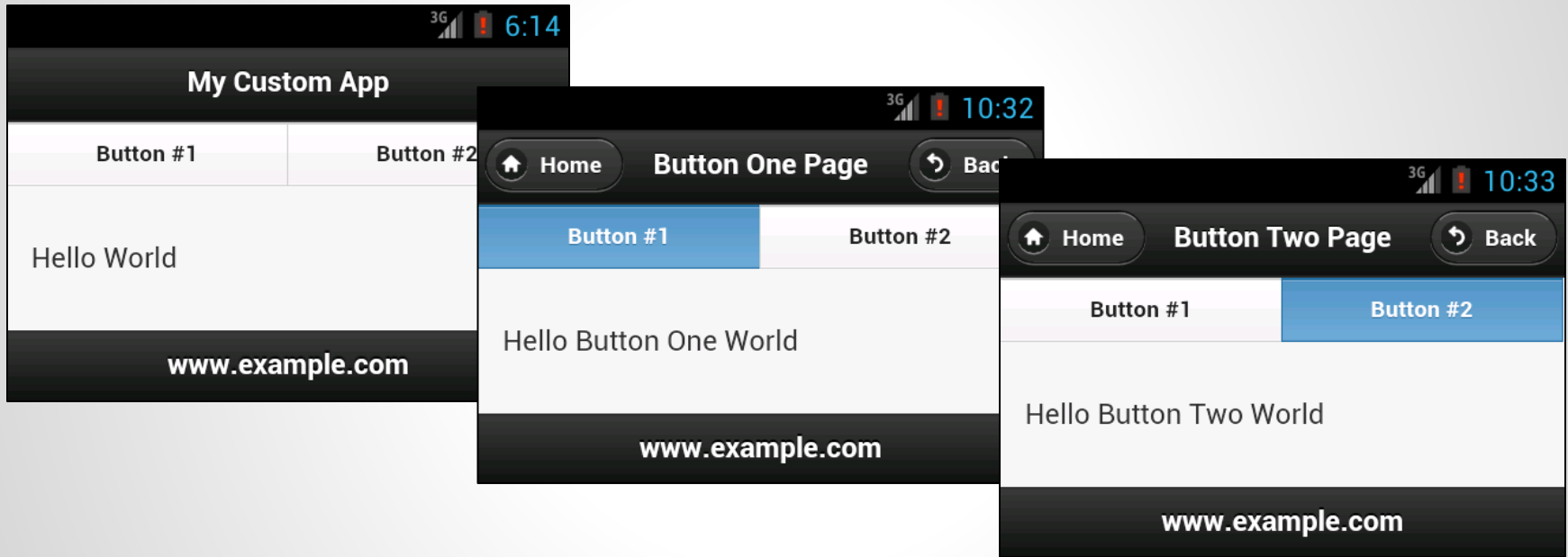


*... makes it pretty, and mobile friendly.*

# jQuery Mobile's HTML Markup

```
<html>
  <head><!-- jQuery Mobile includes go here --></head>
  <body>
    <div data-role="page">
      <div data-role="header"><h1>My Custom App</h1></div>
      <div data-role="navbar"><ul>
        <li><a href="#">Button #1</a></li>
        <li><a href="#">Button #2</a></li>
      </ul></div>
      <div data-role="content"><p>Hello World</p></div>
      <div data-role="footer"><h2>www.example.com</h2></div>
    </div><!-- page -->
  </body>
</html>
```

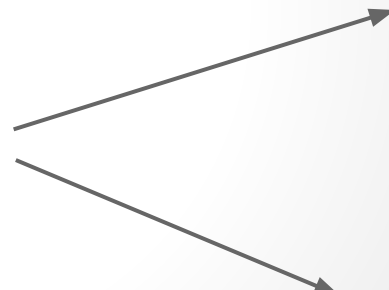
# That's great, but...



... how do we handle multiple pages?

# Say “Hello World” to DrupalGap

“DrupalGap is an *open source* mobile application development kit for Drupal websites. It is powered by PhoneGap, jQuery Mobile and Drupal.”



# We use Drupal to easily build our websites...

... so let's use DrupalGap to easily build our apps.



# Easily build mobile apps, you say?

Let's see it to believe it...

*Example #1: GeoTag a Photo and Upload it*

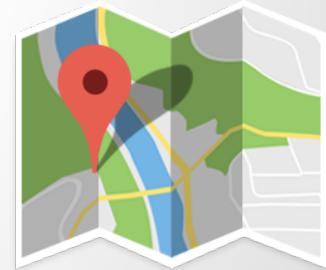
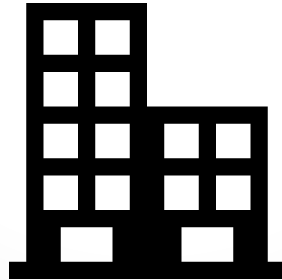


<http://tylerfrankenstein.com/code/build-mobile-app-geo-tag-photo>



# Not too bad, how about one more...

*Example #2: GeoLocate Nearby Content and Display on Map*



<http://www.tylerfrankenstein.com/code/build-mobile-app-geo-locate-content-drupal>

# Neat-o! How do I get started?

## DrupalGap Module

- <https://drupal.org/project/drupalgap>

## DrupalGap SDK

- <https://github.com/signalpoint/DrupalGap>

## Hello World

- <http://drupalgap.org/hello-world>

# Questions / Comments ?

- <https://drupal.org/u/tyler.frankenstein>
- <https://github.com/signalpoint>
- <http://tylerfrankenstein.com>
- *@FrankensteinTJ*

“Thank you!”

