

DEVELOPING WEB BASED MOBILE MAPPING APPLICATIONS WITH JAVASCRIPT

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WORKSHOP OVERVIEW

Mobile concepts and best practices overview

Templates walk-through

Presentation, samples, and links repository

- <https://github.com/mdlane/MTNGIC-2013-Workshop>

MOBILE CONSIDERATIONS

USER WANTS

- Fast
- Easy to use
 - Touch driven
 - On-the-go
- Attractive

USE HTML 5

New semantic elements

Geolocation

Local storage

File api

REDUCE PAGE LOAD

Less requests

- Single js
- Single css
- Compact ESRI api

Smaller requests

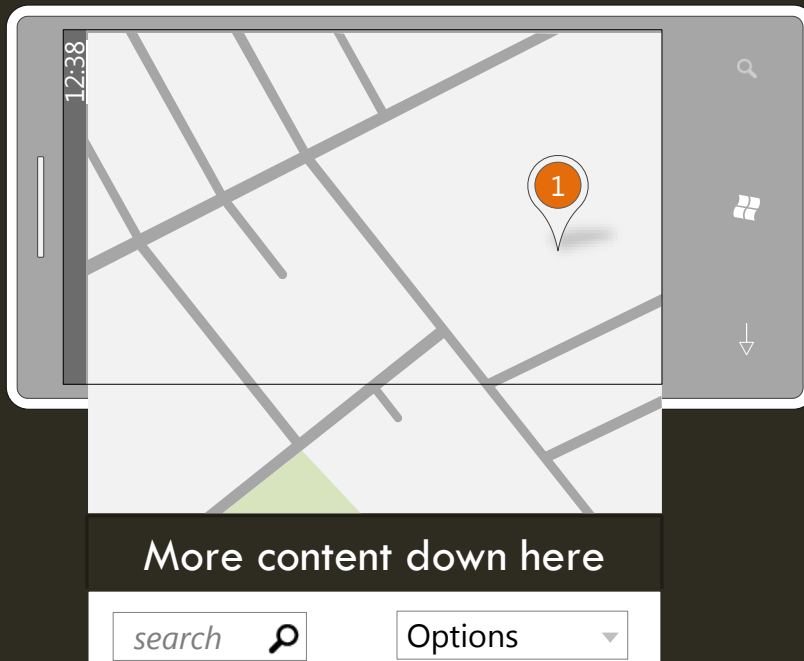
- Minified files
- Compression
- Smaller images
- JavaScript last when possible

MAPPING IS (SLIGHTLY) DIFFERENT

Page zoom matters

- `<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">`

Map height matters

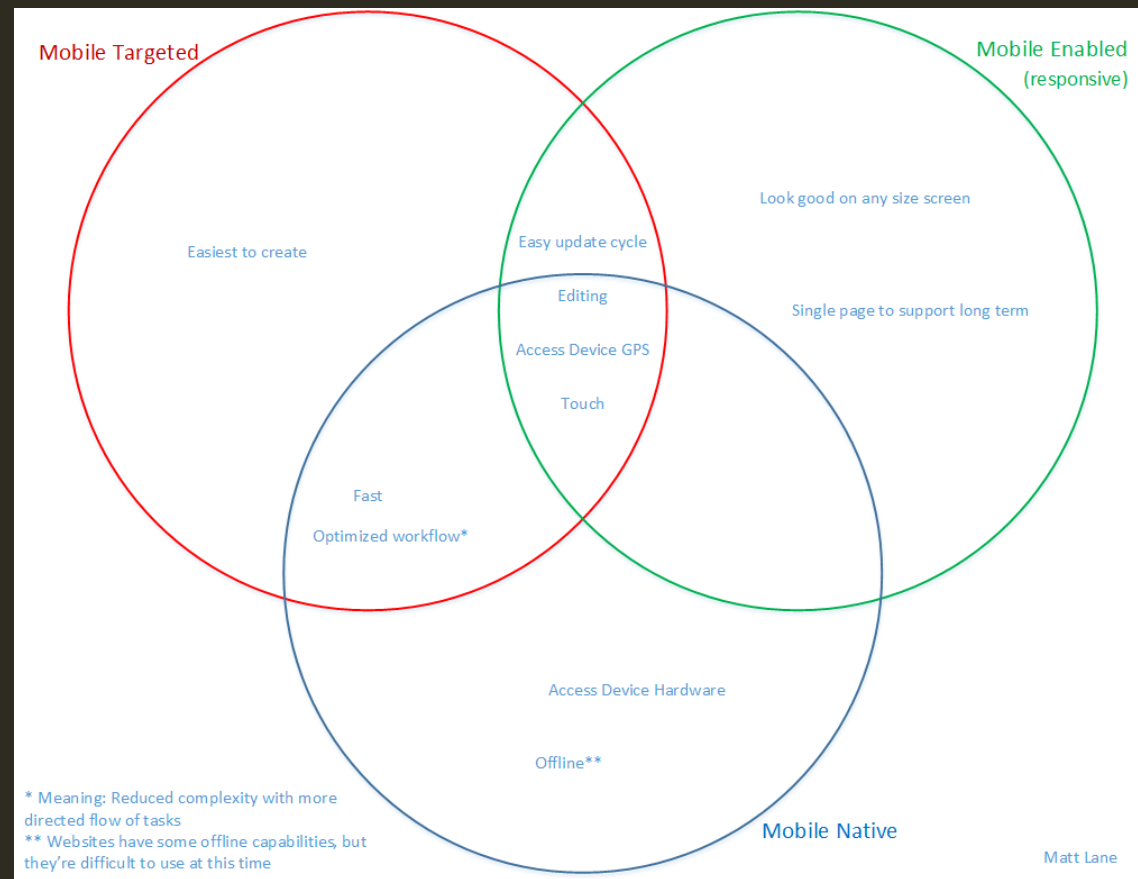


CHOOSE THE CORRECT APPROACH

Mobile Enabled

Mobile Targeted

Mobile Native



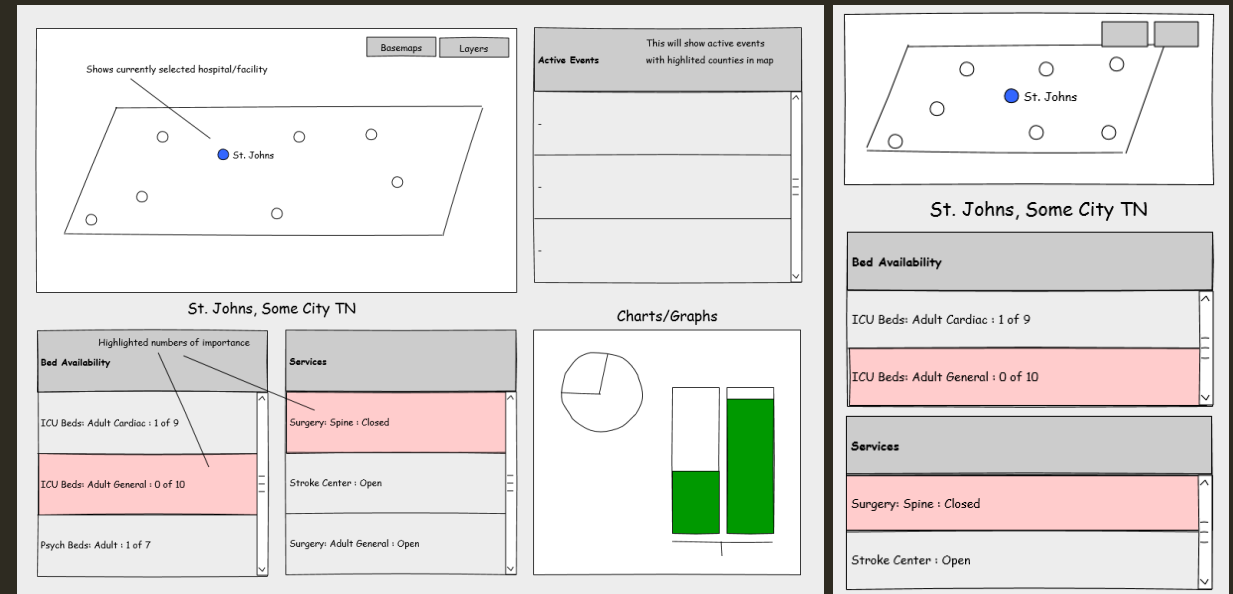
PROTOTYPE THE GUI

Sketch out design

- Small
- Medium
- Large

Can show customer before code, head design problems off early

Some tools can export page markup



MOBILE 1ST APPROACH (RESPONSIVE)

Design a site first for mobile

- No js for structure, just markup and CSS
- Small images
- Small number of requests

Alter structure and dimensions as it sizes up to desktop

Choose media query breakpoints based on content, not device dimensions

- Changes are dependent on needs
- Device dimensions change often

TODAY'S EXAMPLES

Mobile Enabled (responsive)

- Traditional desktop oriented web layout
- Grid system (bootstrap)

Mobile Targeted

- jQuery mobile

Extras

- Geolocation (follows your position)
- Redirection of a desktop site to a mobile one

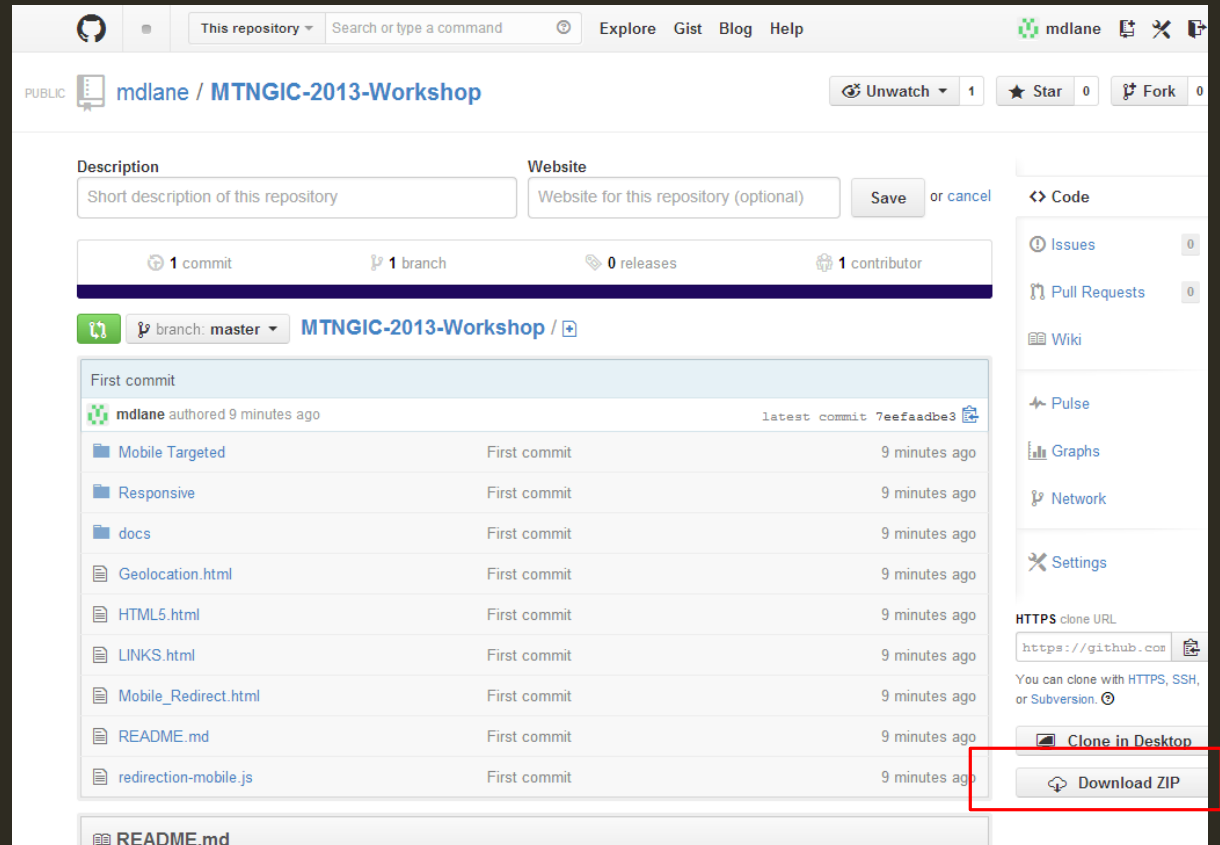
WRAP UP

CONTACT

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DOWNLOAD / FORK

- <https://github.com/mdlane/MTNGIC-2013-Workshop>



The screenshot shows the GitHub repository page for `mdlane / MTNGIC-2013-Workshop`. The repository is public and has 1 commit, 1 branch, 0 releases, and 1 contributor. The files listed are:

File	Commit	Time
Mobile Targeted	First commit	9 minutes ago
Responsive	First commit	9 minutes ago
docs	First commit	9 minutes ago
Geolocation.html	First commit	9 minutes ago
HTML5.html	First commit	9 minutes ago
LINKS.html	First commit	9 minutes ago
Mobile_Redirect.html	First commit	9 minutes ago
README.md	First commit	9 minutes ago
redirection-mobile.js	First commit	9 minutes ago

The `Download ZIP` button is highlighted with a red box.