

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

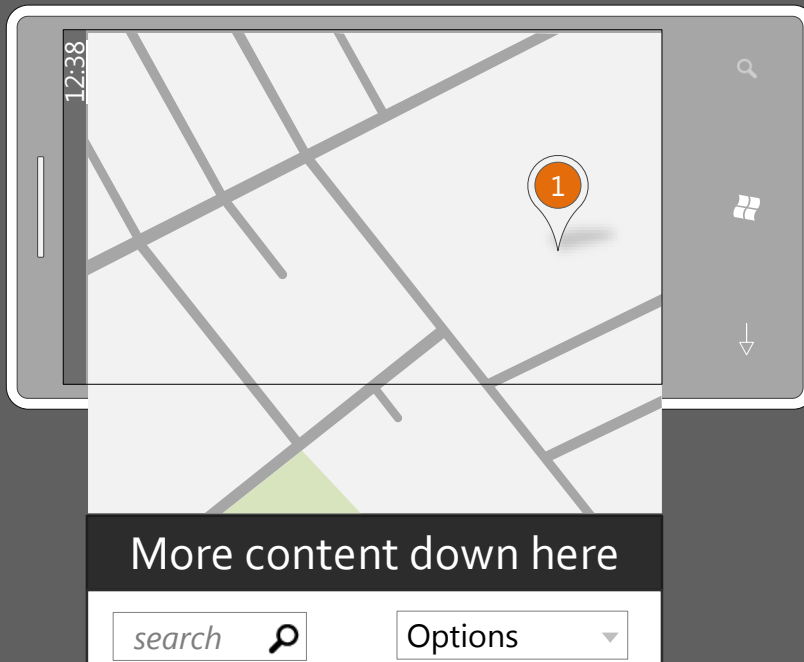
- Less requests
 - Single js
 - Single css
 - Compact ESRI api
- Smaller requests
 - Minified files
 - Compression
 - Smaller images
 - JavaScript last when possible

MAPPING IS (SLIGHTLY) DIFFERENT

- Page zoom matters

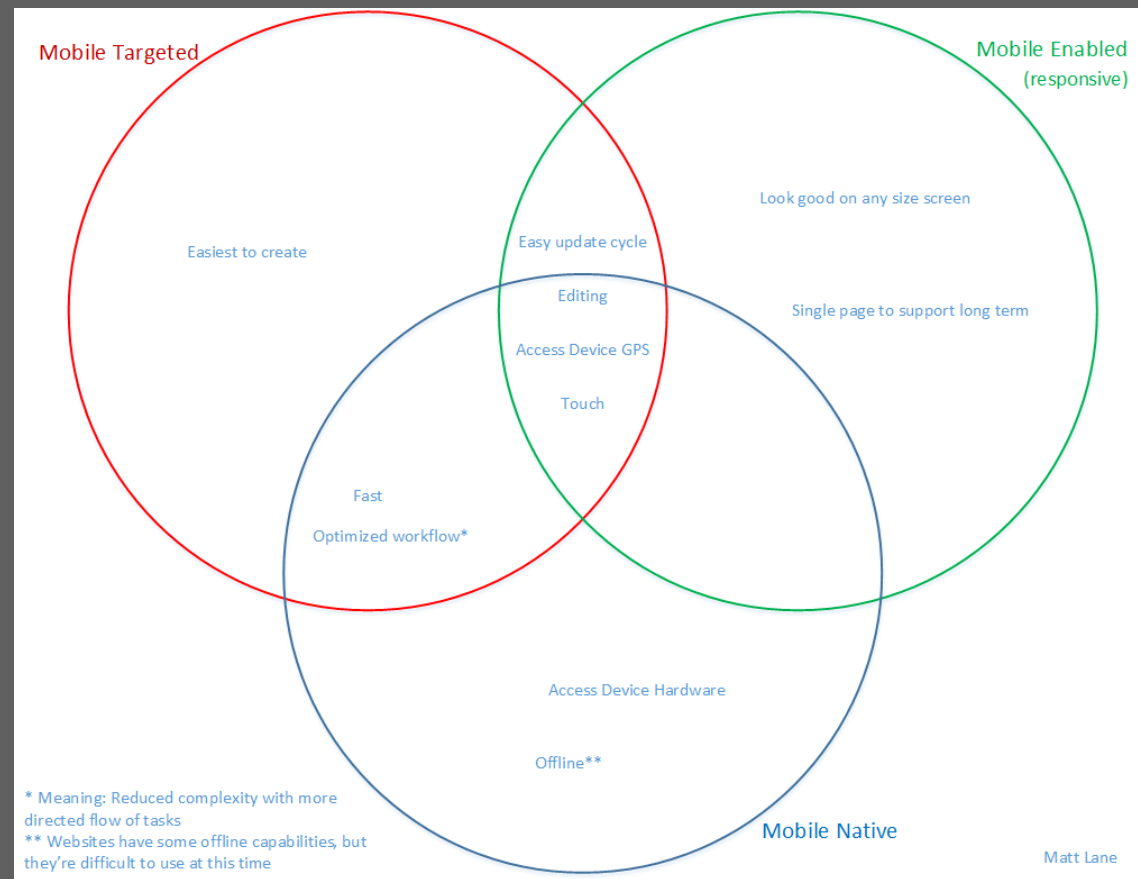
- `<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">`

- Map height matters



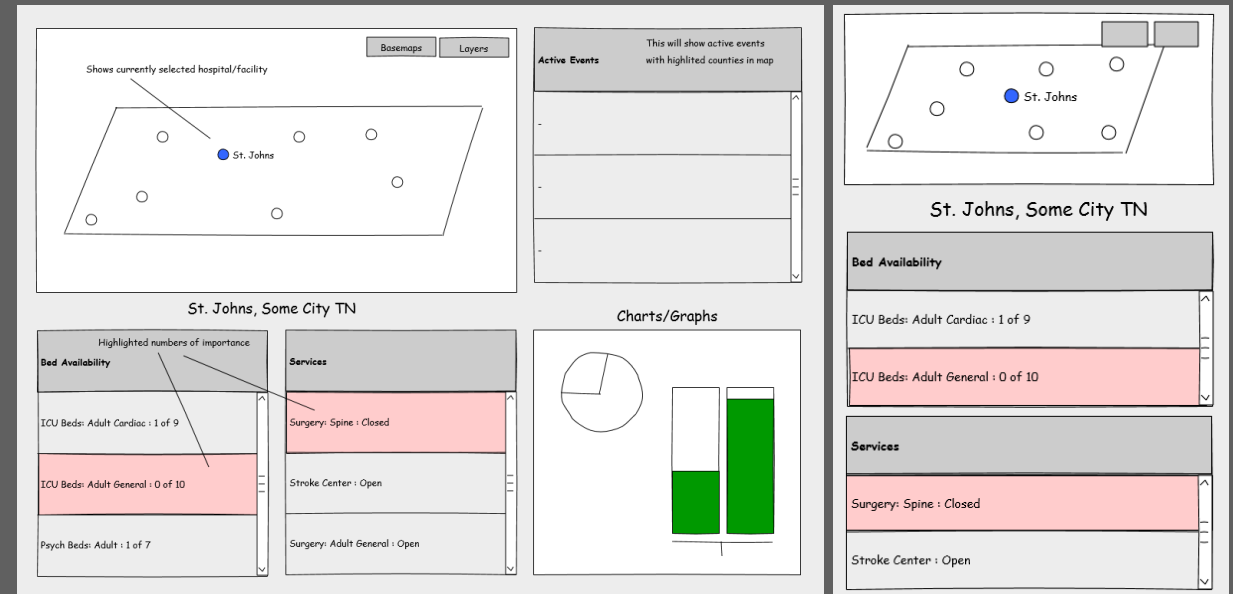
CHOOSE THE CORRECT APPROACH

- 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 interface for the repository 'mdlane / MTNGIC-2013-Workshop'. The repository is public and has 1 commit, 1 branch, 0 releases, and 1 contributor. The 'Code' tab is selected, showing a list of files and folders. The files include 'Mobile Targeted', 'Responsive', 'docs', 'Geolocation.html', 'HTML5.html', 'LINKS.html', 'Mobile_Redirect.html', 'README.md', and 'redirection-mobile.js'. All files were committed 9 minutes ago. The 'Download ZIP' button is highlighted with a red box.

File/Folder	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