

# DEVELOPING WEB BASED MOBILE MAPPING APPLICATIONS WITH JAVASCRIPT

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# 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
- 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 1<sup>ST</sup> 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
  - Devices dimensions change

# 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



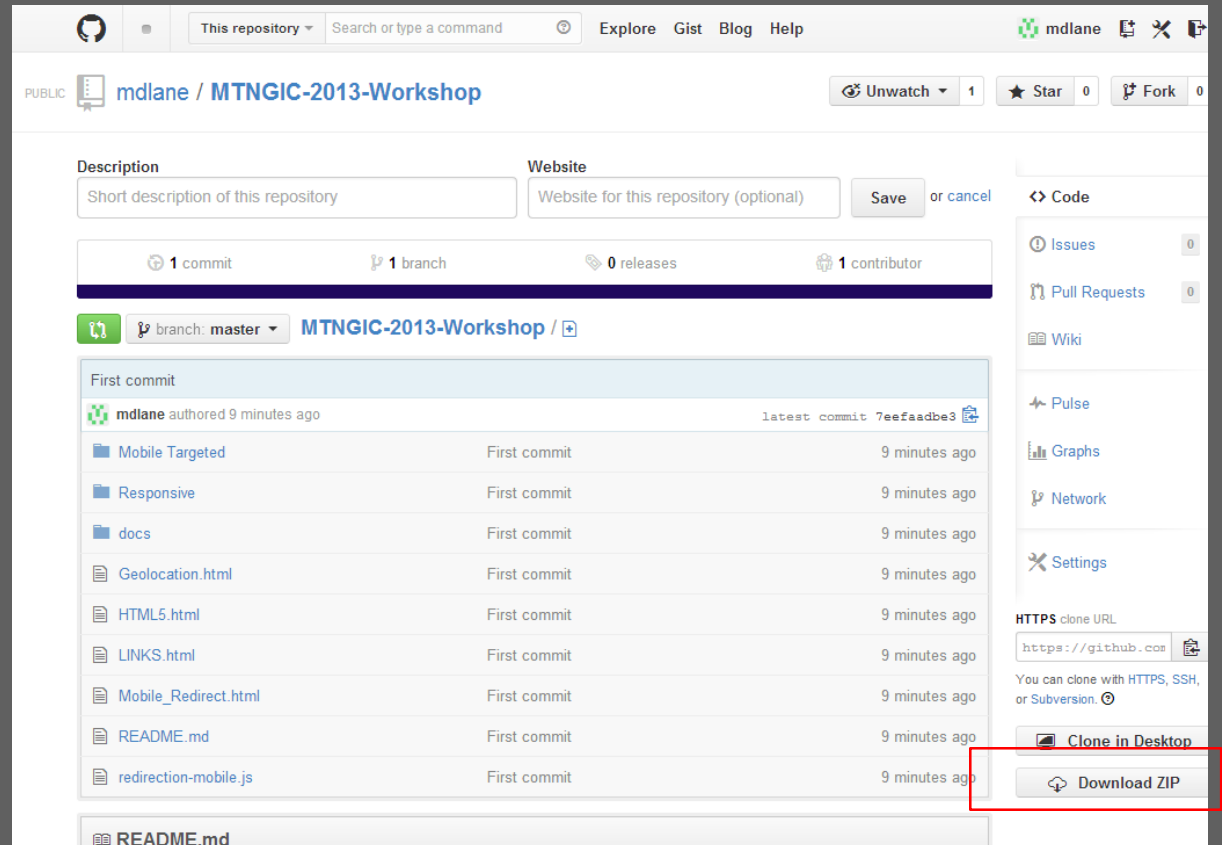
# WRAP UP

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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 'master' branch is selected. The file list shows the following files, all committed 9 minutes ago:

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.