

Interactive Map on a Webpage for FLC Department of Gender and Sexualities

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Updated Project

- No longer limited to Canvas!
- Design a web page
- Interactive map as main feature
- Tabs/Links on top of the page
 - Like so

Updated Map Requirements

- Click-commands
- Pop-up Windows
- External Link(s) to Resource
- Include layers for multiple data sets
- Ability to be linked to Canvas
 - No longer embedding straight to Canvas

Website

- Needs to be open source and open access
- No-cost options
 - Free web hosting
 - Free map data

FLC Website Hosting

- Right from your M Drive
 - WWW folder
- URL format
 - `student.fortlewis.edu/userID`
 - `faculty.fortlewis.edu/userID`

Limitations on FLC Web Hosting

- Marketing Department
 - Scott Kadera – Director of Web Development
 - Directed back to IT Department

Map

- Free!
- Layering Feature
- Interactive

Map Generators/Development Tools

- Google Maps
- Mapbox
- Maptiler
- Modest Maps
- Leaflet
- QGIS
- More!

Google Maps

Pros

- Layering Feature
- Free to Use
- Can be embedded to Canvas if needed in the future

Cons

- Not completely customizable

Mapbox

Pros

- Layering Feature
- Completely Customizable

Cons

- Possibly Not Free to Use*

Open Street Map

- Open Source Map Data
- Alternative to Google Maps

Maptiler

- Multiple Pricing Tiers with Free Option
- Multiple Input Files Unsupported with Free Tier

Open Source Libraries

○ JavaScript Libraries that Stood Out:

- Modest Maps
- Leaflet
- D3.js

○ Python Libraries that Stood Out:

- Django
- Geoplotlib
- Python Shapefile Library (PyShp)
 - Used with Matplotlib, Geopandas, and Seaborn