**FGP stuff**

**Links:**

Our FGP asset directory: <http://geoportal.gc.ca/arcgis/rest/services>

NRCAN FGP asset directory: <http://geoappext.nrcan.gc.ca/arcgis/rest/services>

Example map stuff: <http://wwwdev.ncr.dfo-mpo.ca/science/mockup-WET4/map/index-eng.html>

FGP Git: <https://github.com/fgpv-vpgf> / <http://fgpv-vpgf.github.io/>

**How scripts and page work currently**

Base index page that has an <iframe> embedding another HTML file that renders the actual map. This is done in case we want more than one map on a page, we can add extra <iframe>’s and use WET4 classes to lay them out. Height and Width need to be set or it defaults to something around 400px\*400px, width 100% seems like a good choice, choose height at your discretion for the page you are making.

I have simplified the embedded HTML file by removing the js and css off of it and placing them in their own files. If there are updates to the css or js then these files can easily be changed. The way the page was set up required “bootstrap.js” to be injected after certain functions and before others for the map to render properly, this is why I have pre- and post- bootstrap js files rather than having one. Might change this if I find a way to inject the file and wait for it to be loaded in a single js file that works on our server. The css that was on this page is in the fgpmap.css.

Bootstrap.js = bootstrap functionality for the FGP that allows it to work cross platform etc.

Pre-boostrap.js = set up the map for the height and width it is on the page, check for IE, other pre-rendering stuff

Post-bootstrap.js = parse the JSON file to get all the layers for your map

Core.js = All the FGP map functions that have been built. This runs the map

Ie-polyfills = required for IE to render the map properly. Only gets loaded if IE is detected as the browser

Basically, the embedded HTML file will do a bunch of set up for the map, and then parse your JSON file to find the layers you want to be on the map. The rest of the heavy lifting and actual FGP stuff is up to the core.js file and the hope that all the layers have been properly set up in FGP.

**Adding layers in the JSON file**

Most of the JSON file does not need to be changed. I have set up the English and French files with all the basic layers (referenced as the “baseMaps” element in the file) we need for and map. These are all from NRCAN:

“[Canada Base Map – Simple](http://geoappext.nrcan.gc.ca/arcgis/rest/services/BaseMaps/Simple/MapServer?f=jsapi)” Base Canada Map: has no text so it’s the same on both

“[Canada Base Map - Transportation (CBMT) with labels](http://geoappext.nrcan.gc.ca/arcgis/rest/services/BaseMaps/CBMT3978/MapServer?f=jsapi)” English map: roads, waterways, various names

“[La Carte de Base du Canada – Transport (CBCT)](http://geoappext.nrcan.gc.ca/arcgis/rest/services/BaseMaps/CBCT3978/MapServer?f=jsapi)” French map : roads, waterways, various names

“[Canada Base Map - Elevation (CBME)](http://geoappext.nrcan.gc.ca/arcgis/rest/services/BaseMaps/CBME_CBCE_HS_RO_3978/MapServer?f=jsapi)” Elevation map of Canada: has no text so it’s the same on both

The part of the JSON file where we point to our layers is above the “baseMaps” layers, just under the “legend” element in the JSON. The basic set up for this is like this, I have included two to show that we can have more than one layer easily if we want that:

{

"id": "LAYER ID",

"name": "LAYER NAME",

"layerType": "esriFeature",

"url": "LINK TO THE LAYER IN FGP",

"options": {

"visibility": { "value": true },

"opacity": { "value": 1.0 }

}

},

{

"id": " XXXXX ",

"name": " ZZZZZ ",

"layerType": "esriFeature",

"url": " LINK TO THE LAYER IN FGP",

"options": {

"visibility": { "value": true },

"opacity": { "value": 1.0 }

}

}

Most of those are self-explanatory. More options things to look in to can be found in the [fgpv-vpgf github](https://github.com/fgpv-vpgf/fgpv-vpgf) under the “src” folder. For the “url”, you need to point to the layers page of an FGP entry, for example: on [this page](http://geoportal.gc.ca/arcgis/rest/services/FGP/500m_Gridded_Bathymetry_Index/MapServer) you click on the only link under the heading “Layers:” and the url of the page is what you paste into the layer “url”.

**Other Notes**

* The .map files allow the browser to debug as if the js and css were not minified, so I have included them.
* The only edits I have made to the js and css have been to make it work with the folder structure I have set up as well as removed a function that is used to hide and show the theme footer on the FGP site (for reference: the commit that changed the folder structure and file paths happened at revision 13481 in the SVN).