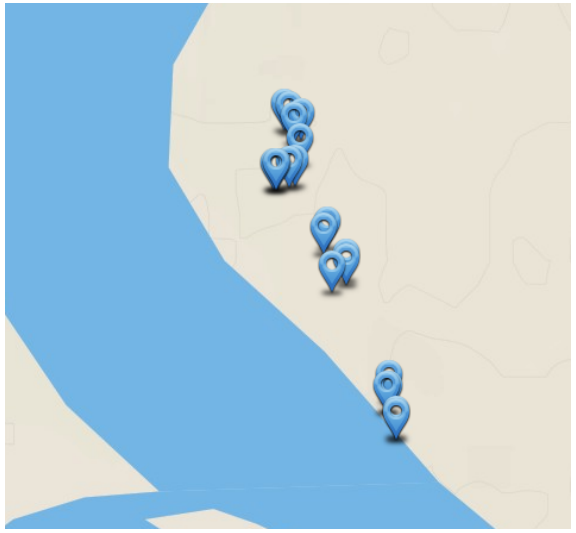
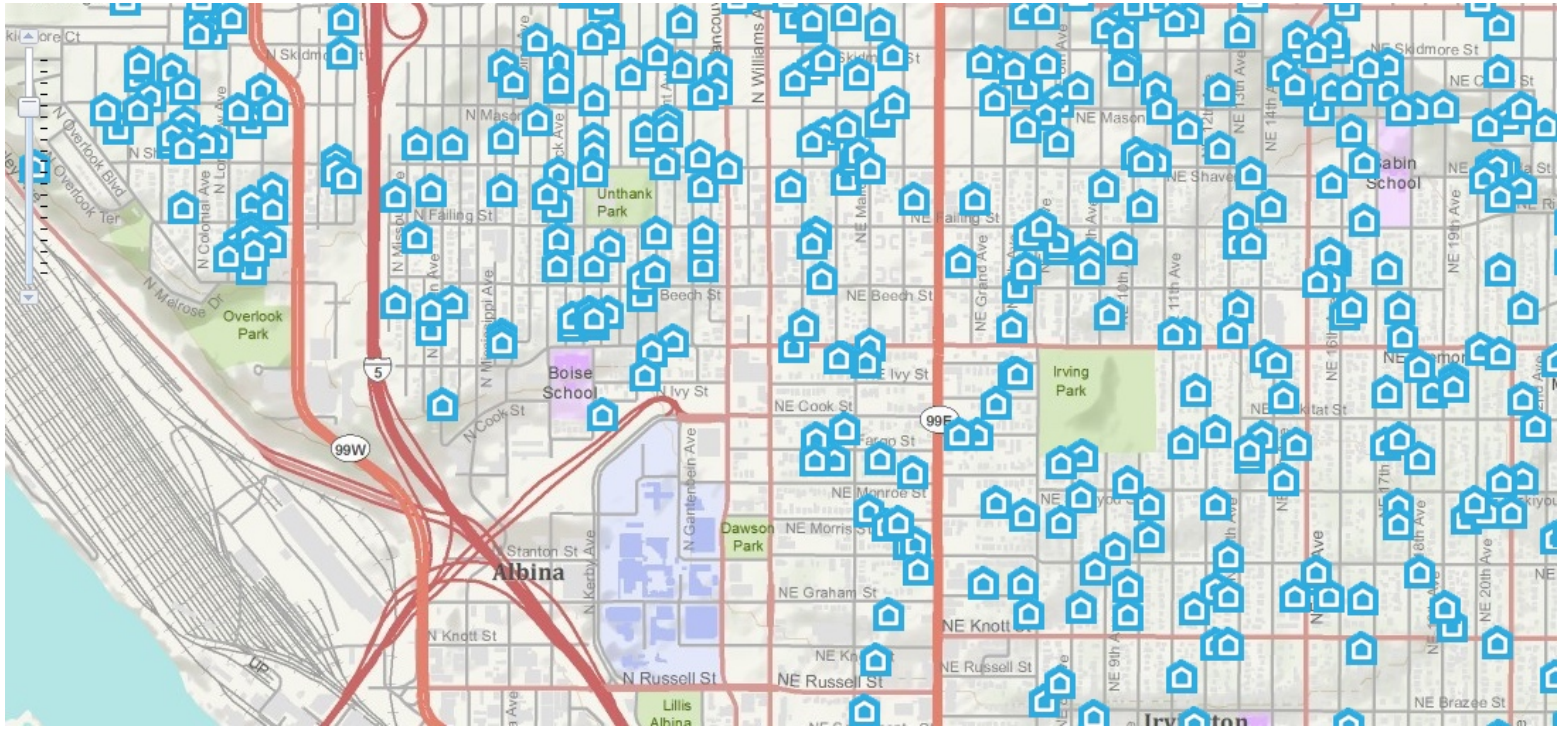
PGRestAPI

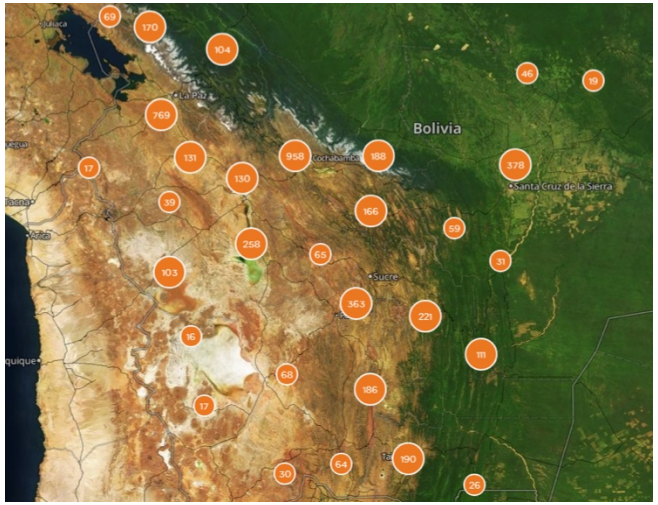
The location sensation that's sweepin' the nation….

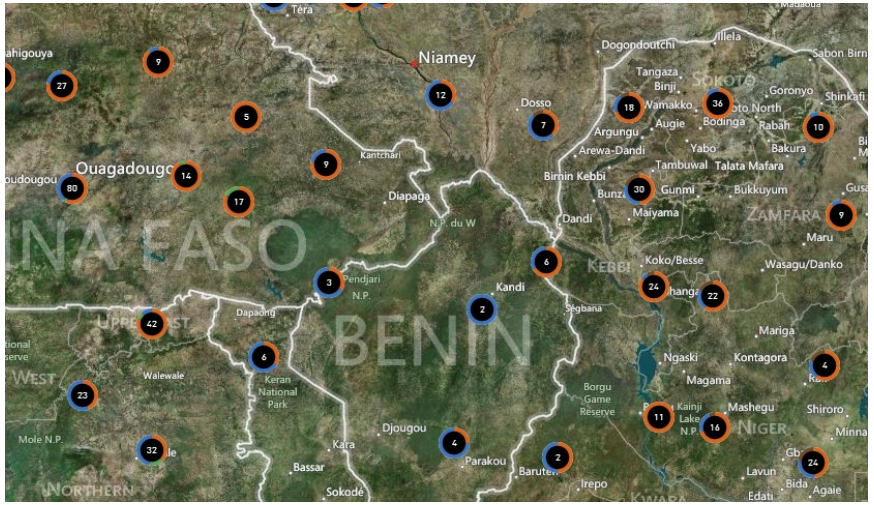
https://github.com/spatialdev/PGRestAPI/

Web maps…



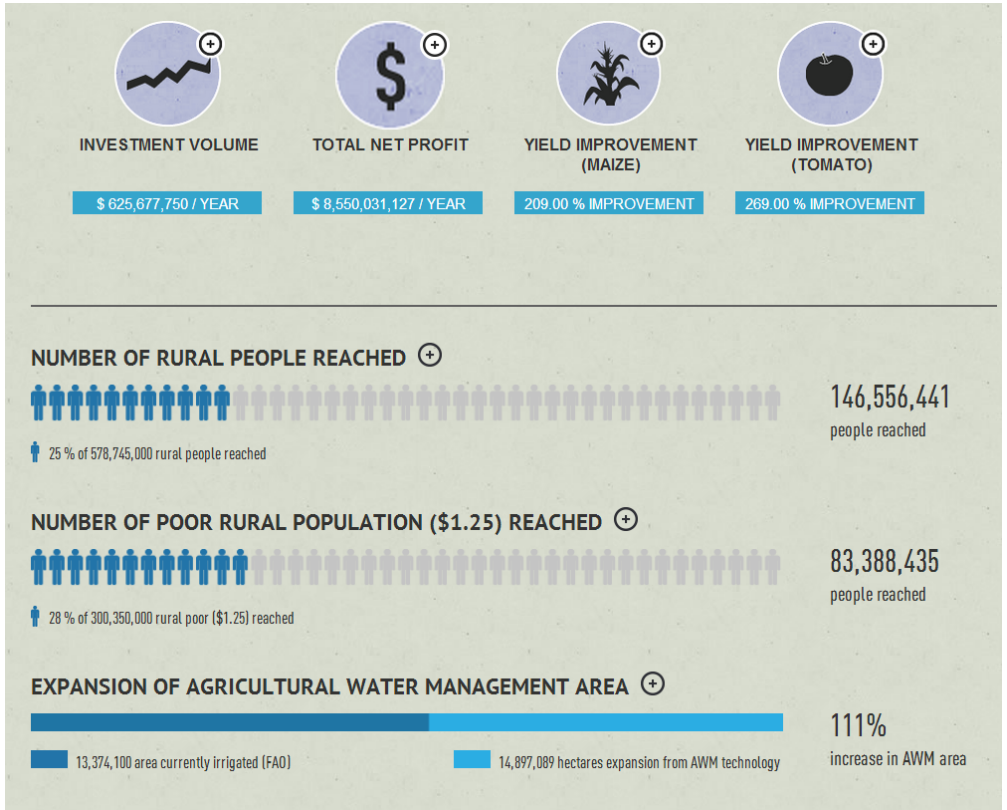

Overlook Park
Unthank Park
Boise School
Irving Park
Dawson Park
Albina
Lillis Albina
99W
99E
5
N Russell St
NE Russell St
NE Knott
NE Graham St
NE Monroe St
NE Beech St
NE Ivy St
NE Cook St
NE Brazee St

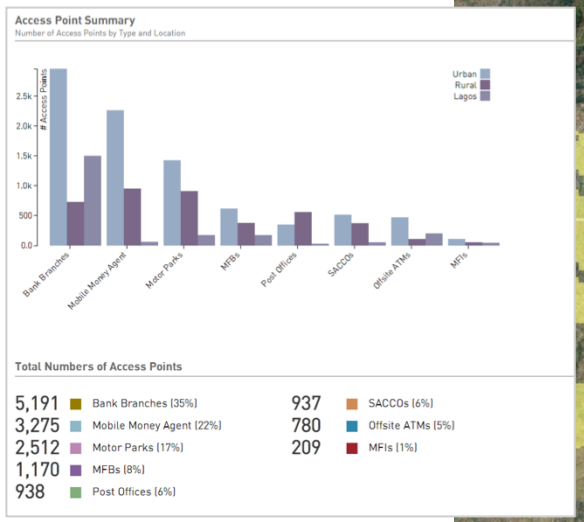

Bolivia

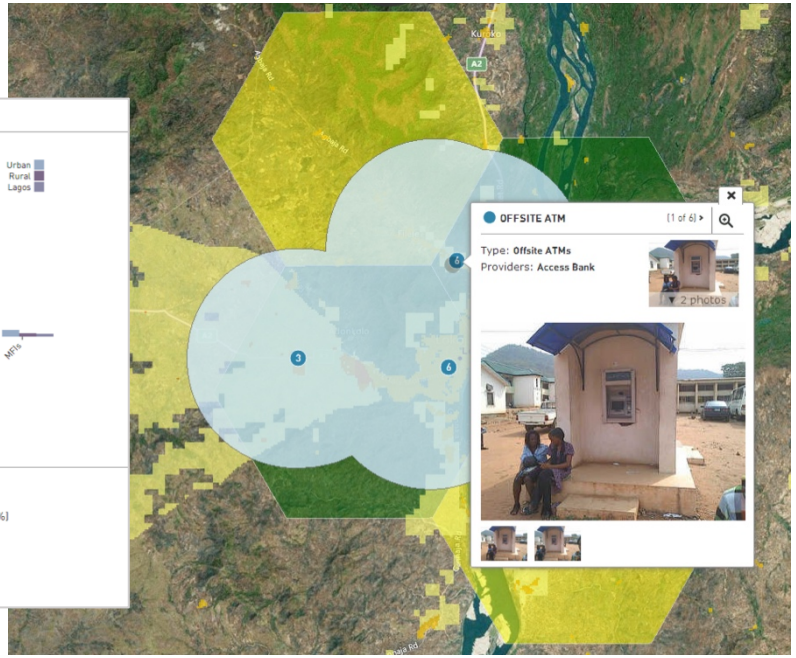

Niamey
Ouagadougou
BURKINA FASO
BENIN
NIGER


Niamey
NIGERIA
CAMEROON

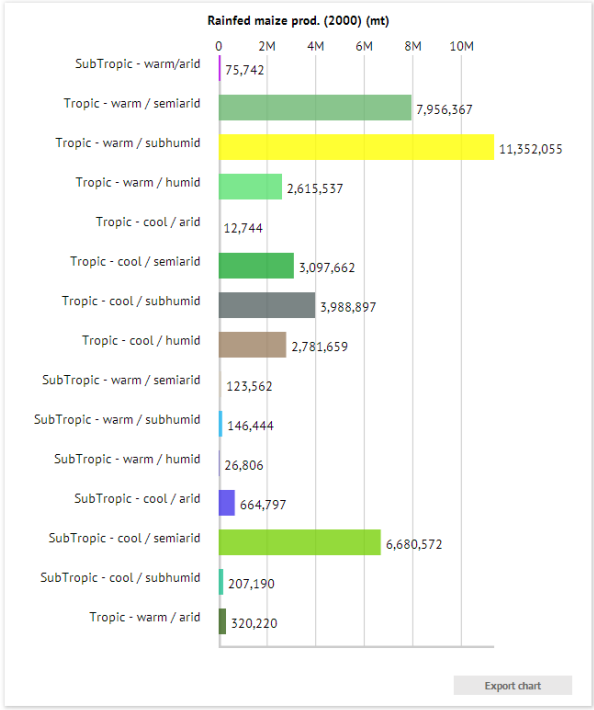
Maybe a little more…

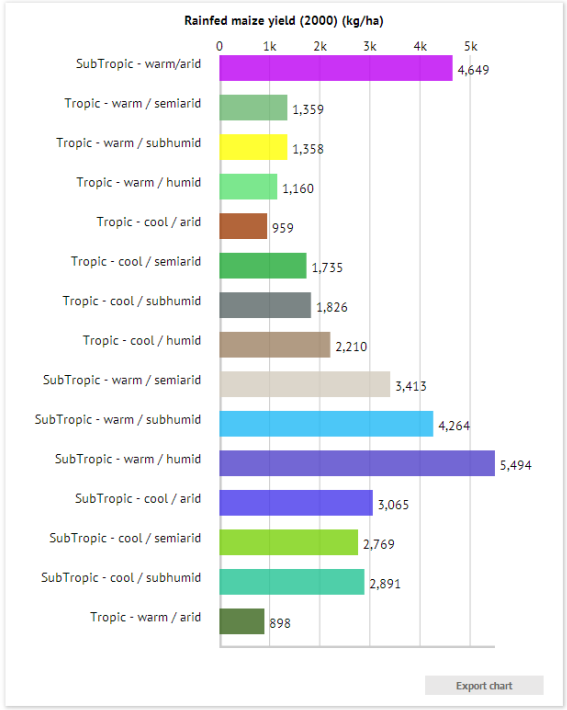






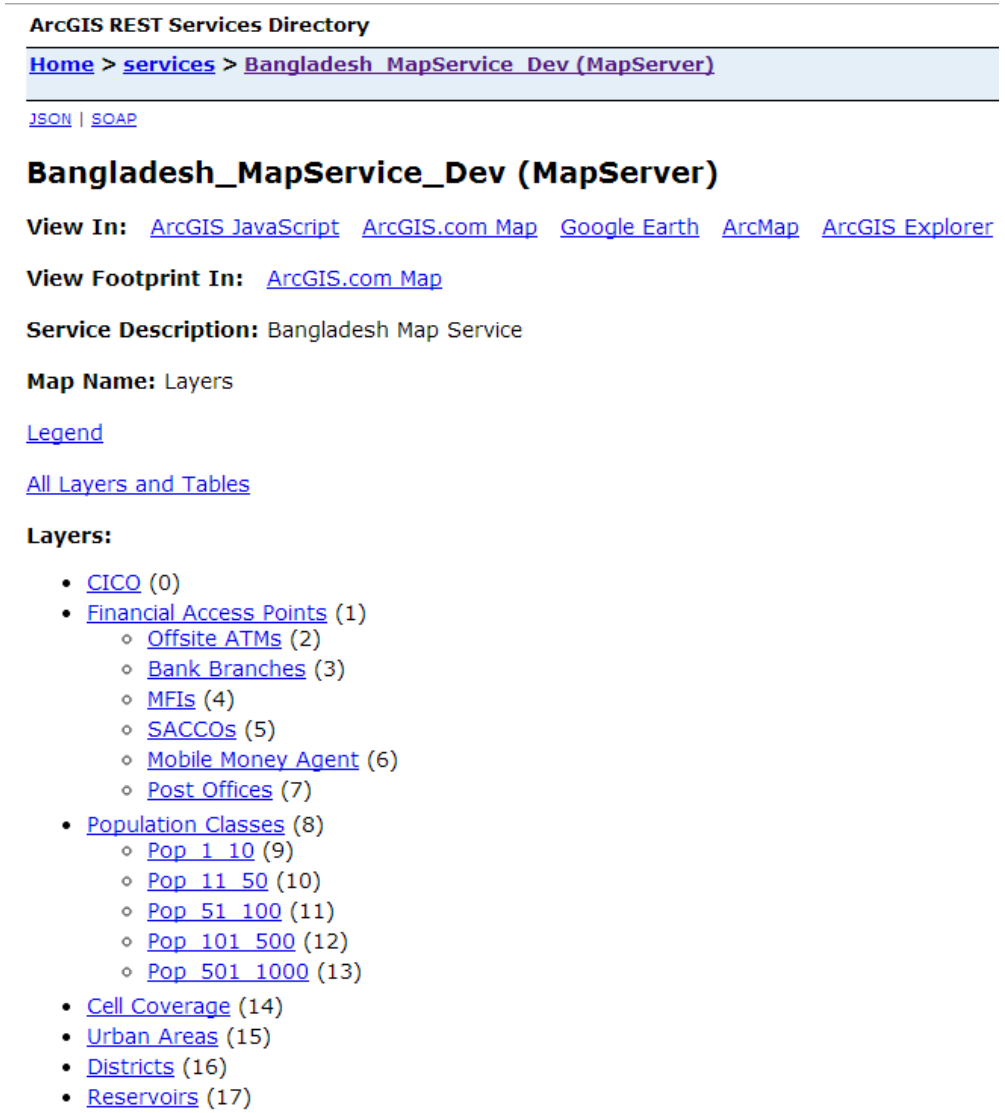
CHARTS





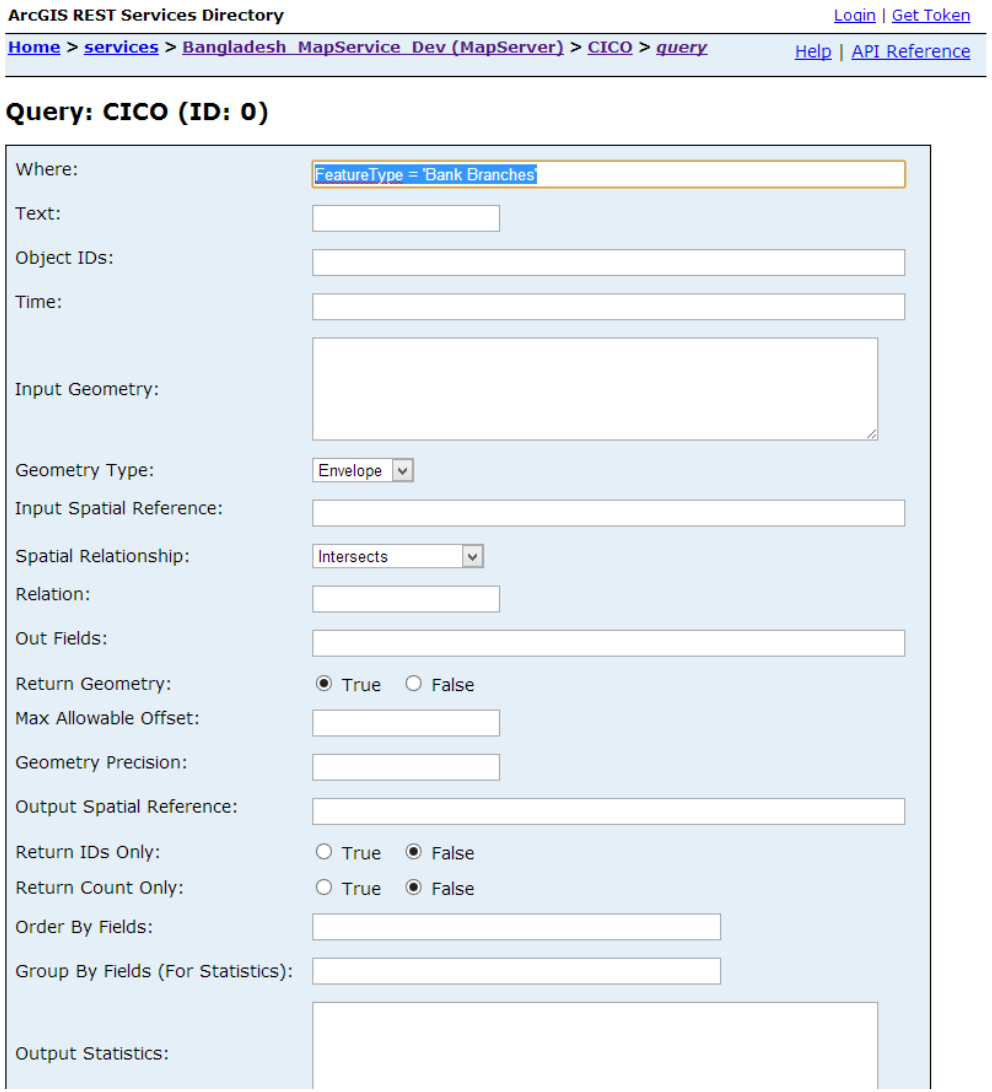
What features of ArcGIS Server are we using most?

- Querying the REST API (30%)
- Dynamic Map Tiles (30 %)
- Geoprocessing Services (15%)
- Hair-Pulling, inexplicable Errors (“Error: 999999”) (15%)
- Static Map Caching (7 %)
- Feature Editing (2 %)
- Printing (1%)



Querying the REST API

- Pass in ‘where’ clauses
- Spatial intersects
- Specify output fields
- Return Geometry (or not)
- Reproject coordinates
- Summary statistics



Maybe we can do that with Node.js and PostGIS??

Getting Started: Ingredients

- Computer (Windows, Ubuntu, Mac)
- Node.js
- PostGreSQL and PostGIS
- Mapnik
- Some data

The User Interface

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SERVICES | TABLE LISTING | GEOPROCESSING | UTILITIES

SERVICES LISTING

A list of services available

- PostGres Table Endpoints
- Geoprocessing
- Utilities
- Static Vector Tile Services
- Static Image Tile Services

Code Sample

Here's how to hit this endpoint programatically to get a list of these services.

POST

```
1.  //define arguments
2.  var args = {
3.  format: 'geojson'
4.  };
5.
6.  //jQuery POST
7.  $.post('http://services.fspmaps.com/services', args).done(functic
8.  //Callback on success
9.  console.log(data);
10. })
```

GET

```
1.  http://services.fspmaps.com/services?format=geojson
```

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SERVICES | TABLE LISTING | GEOPROCESSING | UTILITIES

Home ▶ Table Listing

TABLE LISTING

A list of your PostGres Tables

- bangladesh_cicos
- bangladesh_coverage
- bangladesh_district_landuse
- bangladesh_districts
- bangladesh_population_raster
- bangladesh_urbanareas
- cicos_2014
- cicos_2014_retrofit
- india_cicos
- india_urbanareas
- kenya_cicos
- kenya_counties
- kenya_coverage
- kenya_district_landuse
- kenya_population_raster
- kenya_urbanareas
- nigeria_cicos
- nigeria_coverage
- nigeria_district_landuse
- nigeria_hexbins
- nigeria_population_raster
- nigeria_statecapitals
- nigeria_states
- nigeria_surveycoverage
- nigeria_urbanareas
- philippines_cicos
- philippines_coverage
- philippines_districts
- philippines_urbanareas

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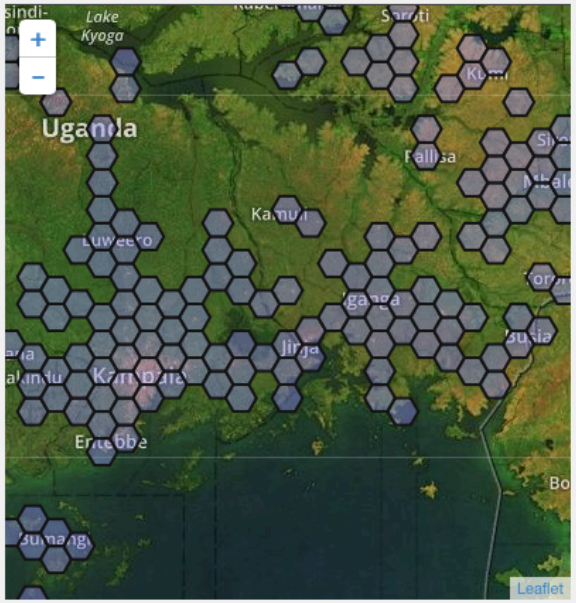
SERVICES | TABLE LISTING

Home ▶ Table Listing ▶ uganda_hexbins ▶ Dynamic Vector Tiles

Vector Tile Service



Code Sample

Here's the vector tile endpoint:

Geoprocessing framework

- Add your own PostGIS Logic into a javascript file
- Specify inputs
- Drop file in the GP Folder
- Get a dynamic REST endpoint that will execute your logic

http://spatialdev.github.io