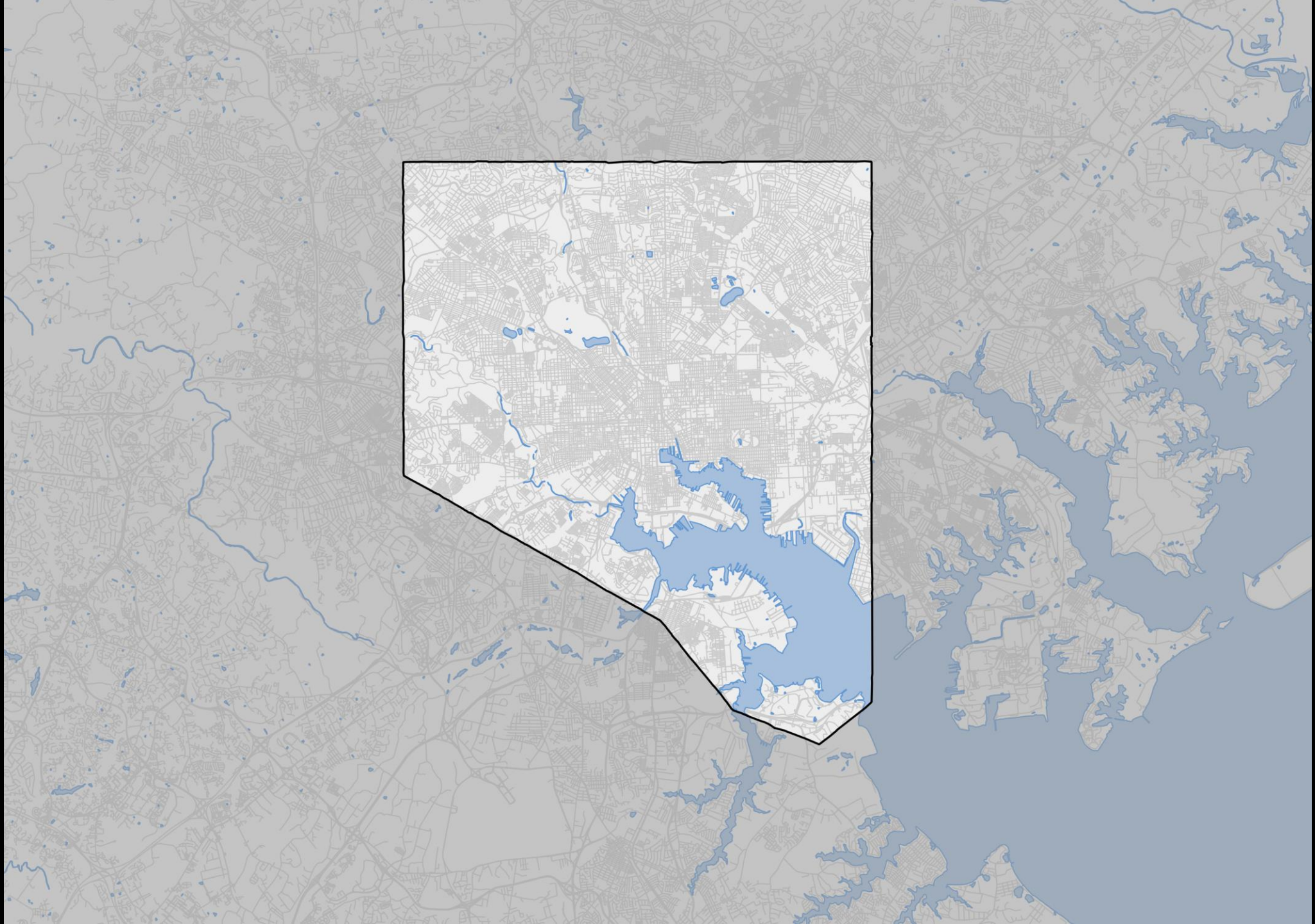


QGIS Cartography Part 2



Cartographic Components

- Add a shadow to boundary
- Add style to water (2 methods)

Query Builder

Set provider filter on Baltimore city copy

Fields

- STATEFP
- COUNTYFP
- COUNTYNS
- GEOID
- NAME
- NAMELSAD
- LSAD
- CLASSFP
- MTFCC
- CSAFP
- CBSAFP
- MFTDIVFP

Values

Search...

Sample All

Use unfiltered layer

Operators

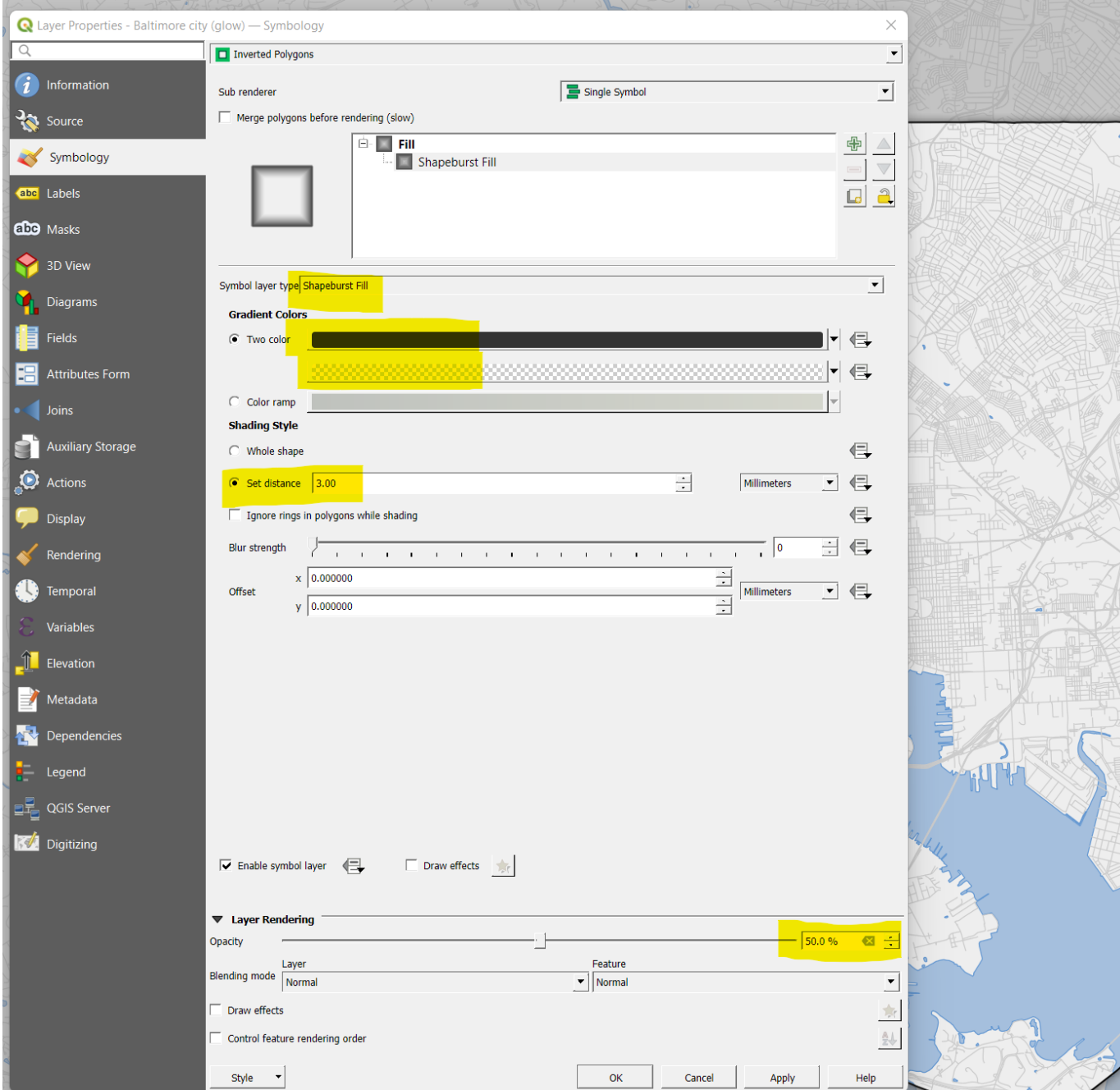
| | | | | | | |
|----|----|----|-------|-----|----|--------|
| = | < | > | LIKE | % | IN | NOT IN |
| <= | >= | != | ILIKE | AND | OR | NOT |

Provider Specific Filter Expression

```
"COUNTYFP" LIKE '510'
```

OK Test Clear Save... Load... Cancel Help

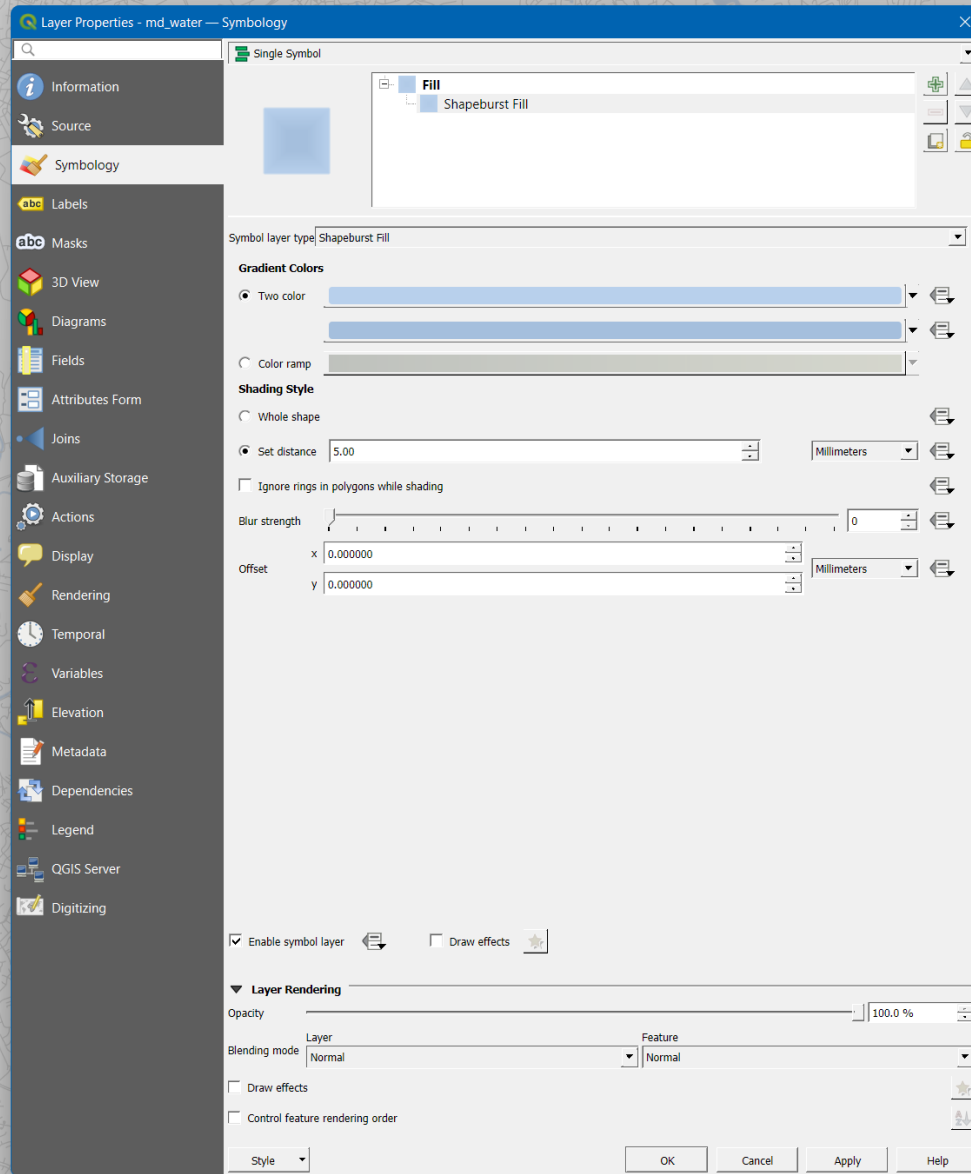
Duplicate your boundary
In this case, filter for only Baltimore
Place it on top of the original



Set to **Inverted Polygon** (at the top)

Set it to Shapeburst Fill, then

- Change the **first color** to a dark like #333333 and set Opacity to 100%
- Change the **second color** Opacity to be 0%
- Change **Set distance** to be something small like 3 mm
- Set the **Layer Rendering** to 50%



Method 1

Set to **Single Symbol** (at the top)

Set it to Shapeburst Fill, then

- Change the **first color** to a lighter blue like #b8d0ec and ensure Opacity is 100%
- Change the **second color** to a darker blue like #a5bfdd and ensure Opacity is 100%

Method 2

If you had a statewide shapefile and had appropriately erased water (remember your thresholds in `erase_water!`), how could you use inverted polygon and shapeburst?

Layer Properties - md_water outline — Symbology

Single Symbol

Fill

Simple Fill

Symbol layer type: Simple Fill

Fill color: #6498d2

Fill style: No Brush

Stroke color: #6498d2

Stroke width: 0.260000 Millimeters

Stroke style: Solid Line

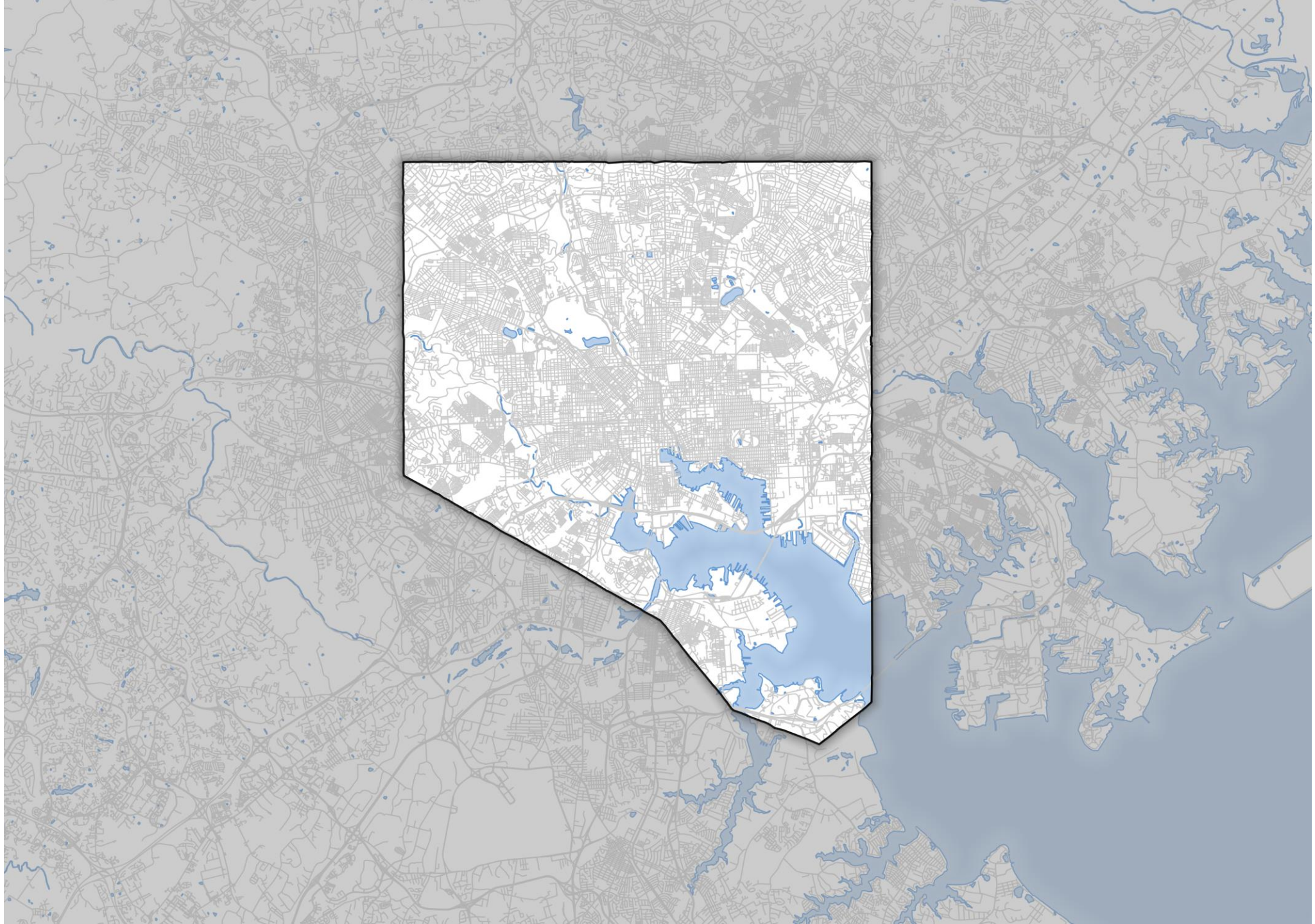
Join style: Bevel

Offset x: 0.000000 Millimeters

Offset y: 0.000000 Millimeters

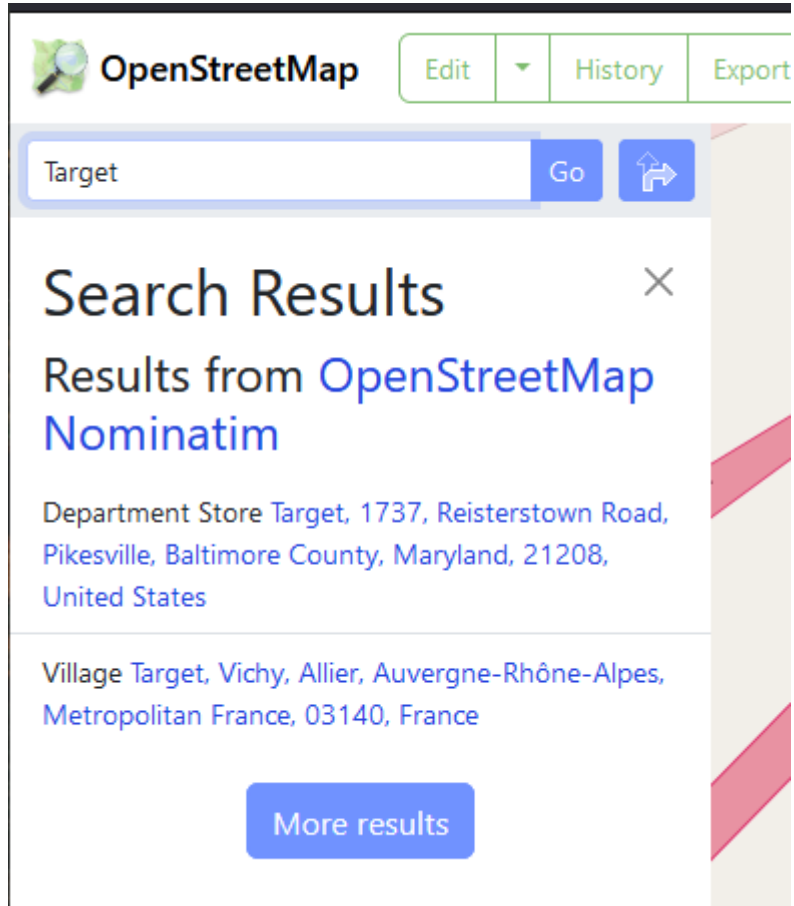


I like to duplicate the water layer, then set the **Fill Style to No Brush** and the **Stroke color to be a dark blue like #6498d2**



Scraping OpenStreetMap Data

- Demo search
- Read this tutorial on nodes, ways, and relations:
<https://nixintel.info/osint-tools/getting-started-with-overpass-turbo-part-1/>
- We'll use the function **nwr** to catch all 3



Use OpenStreetMap to find an establishment or item that you'd like to find elsewhere. In this case, I searched for Target and moved the map to Reisterstown.



Search

Where is this?

Go



Way: Target (52834752)



Version #4

Remove brand:wikipedia

Edited 4 months ago by [ZeLonewolf](#)

Changeset #[146345497](#)

Tags

| | |
|----------------------------------|----------------------------------|
| addr:city | Pikesville |
| addr:housenumber | 1737 |
| addr:postcode | 21208 |
| addr:street | Reisterstown Road |
| brand | Target |
| brand:wikidata | Q1046951 |
| building | yes |
| name | Target |
| shop | department_store |

Find the identifying information.

`brand="Target"`

`brand:wikidata="Q1046951"`

Name probably isn't a good option because many things will have a Target in the name.


```
1  /*
2  This has been generated by the overpass-turbo wizard.
3  The original search was:
4  "brand="wawa" and type:node"
5  */
6  [out:json][timeout:25];
7  // gather results
8  (
9      nwr["brand"="Target"]({{bbox}});
10 );
11 // print results
12 out body;
13 >;
14 out skel qt;
```

Use Overpass Turbo. Modify the query to look like the left. You may also use the **Wizard** button, but I've had limited success with that.

<https://overpass-turbo.eu/>

Instead of
brand="Target"

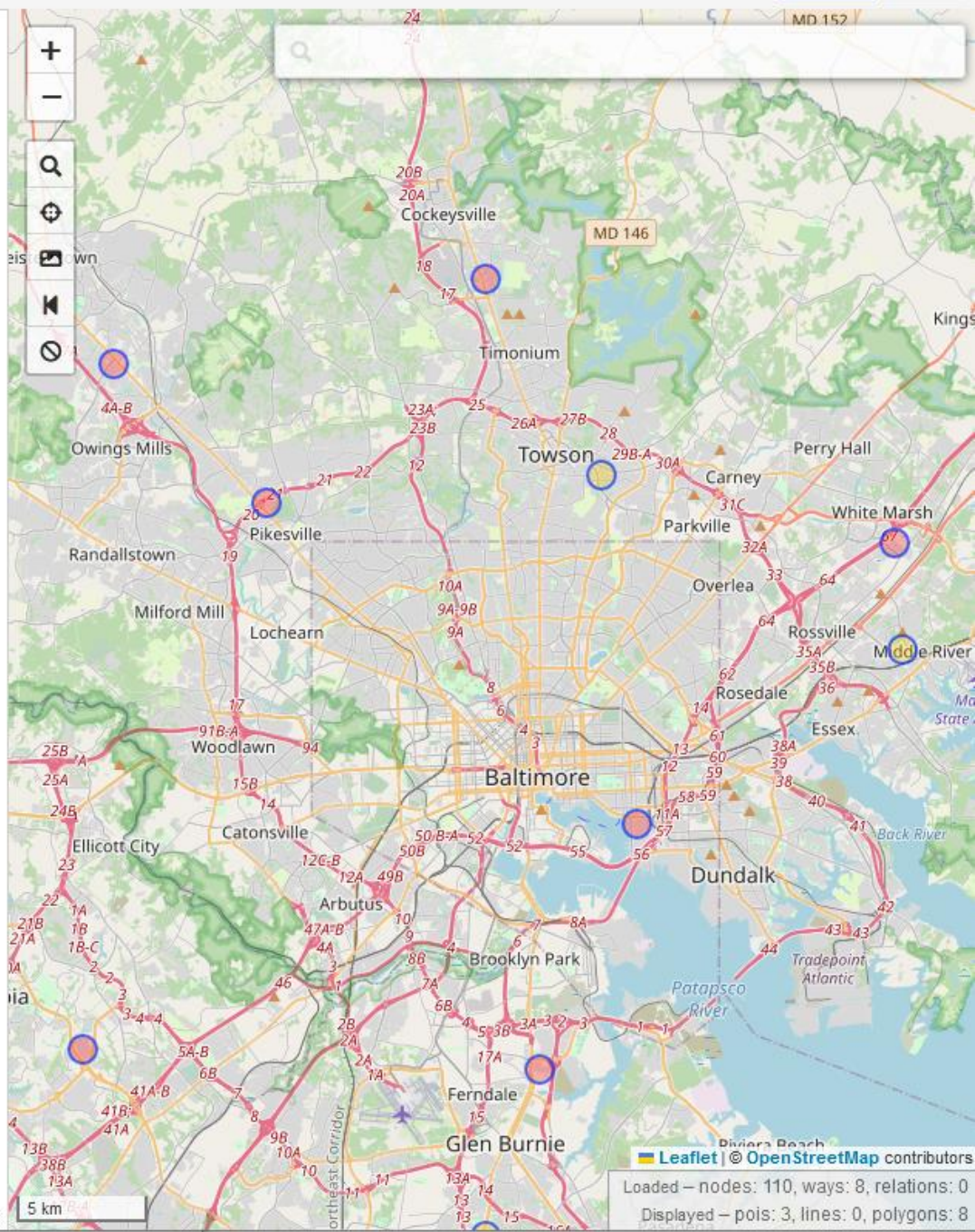
we could have used
brand:wikidata="Q1046951"

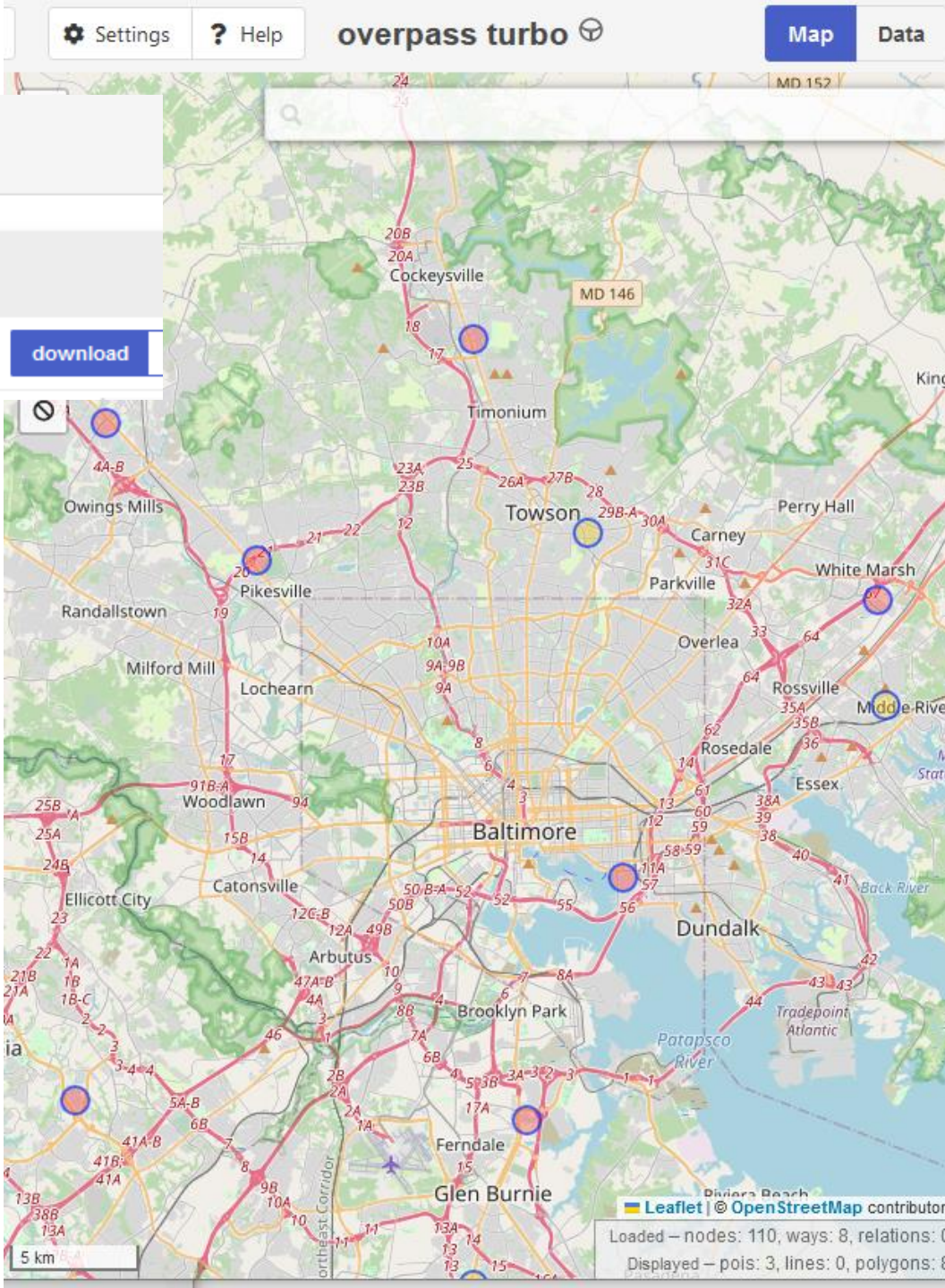
```
[out:json][timeout:25];
// gather results
(
    nwr["brand"="Target"]({{bbox}});
);
// print results
out body;
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out skel qt;
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```

1  /*
2  This has been generated by the overpass-turbo wizard.
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4  "brand="wawa" and type:node"
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9     nwr["brand"="Target"]({{bbox}});
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11 // print results
12 out body;
13 >;
14 out skel qt;

```





Export

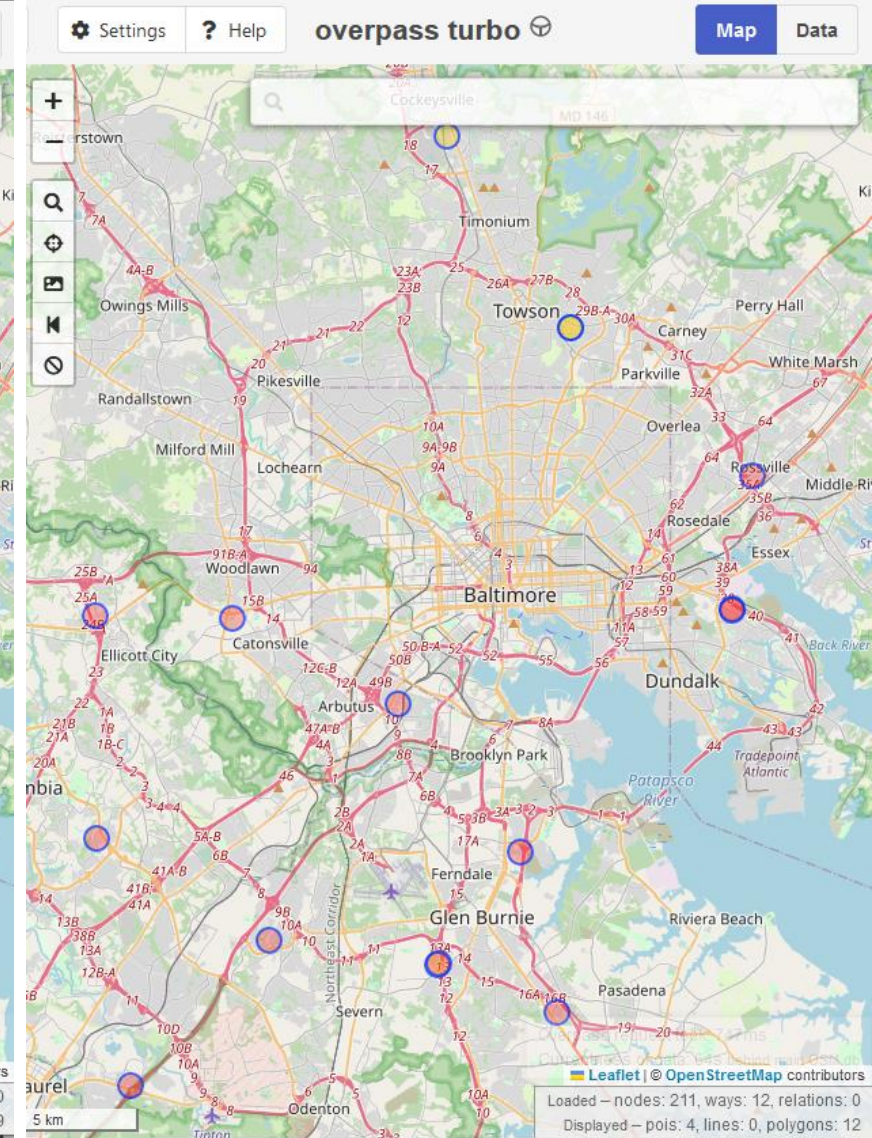
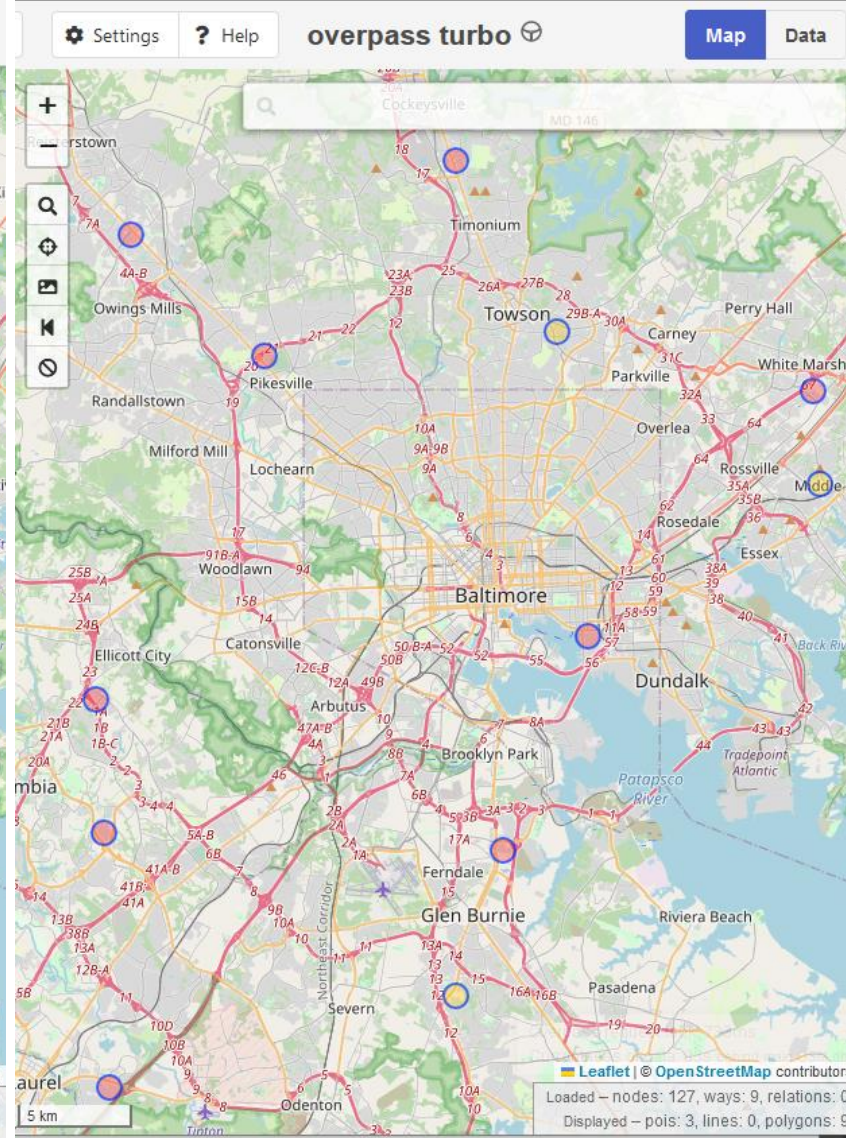
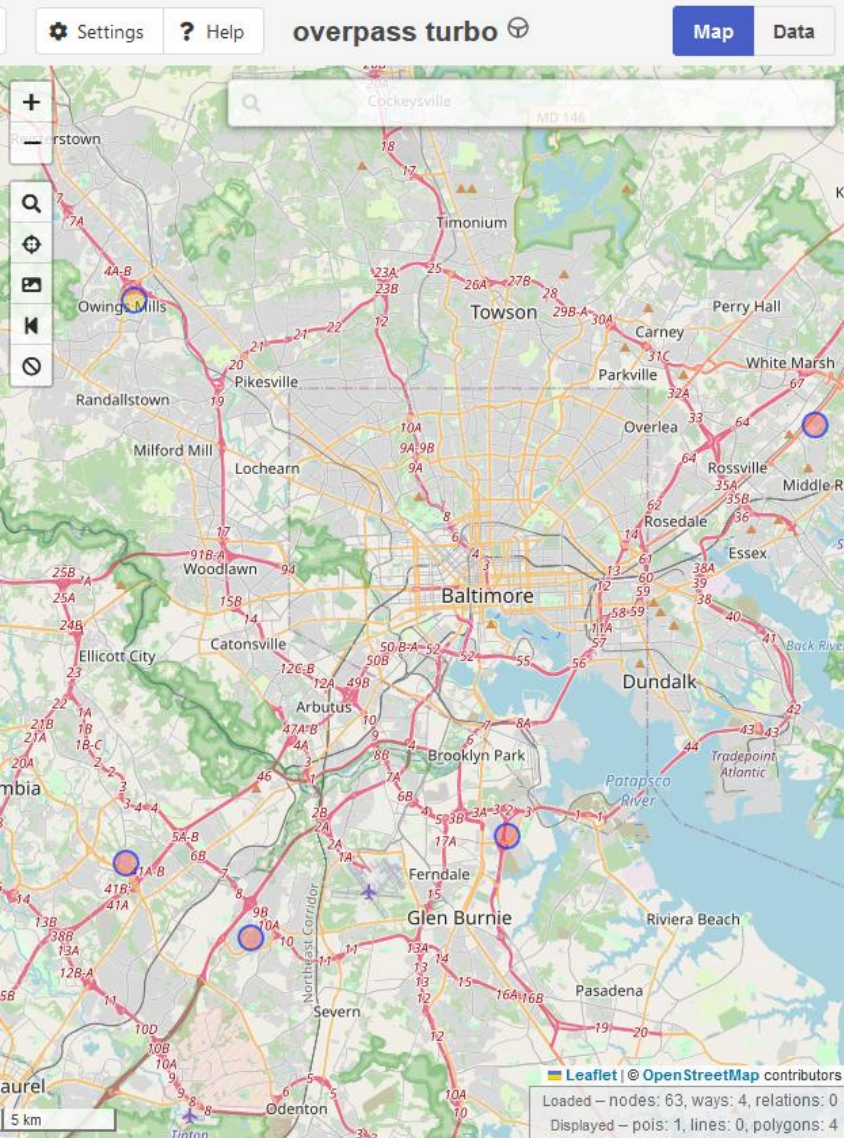
Data

GeoJSON

download

Click the **Export** button and download the data as a **GeoJSON layer** (a .geojson file).

Notice that the dots are different colors, we have **ways** and **nodes**. You'll need to combined those in QGIS (or R if you're feeling spicy).



It becomes interesting when you can compare multiple different brands, and/or compare it to socio-demographic data.

Relation: Patterson Park (12764420) ×

Version #3

Add start dates for Baltimore City parks

Edited [6 months ago](#) by [elipousson](#)

Changeset [#143393424](#)

Tags

| | |
|-----------------------------------|---|
| addr:housenumber | 200 |
| addr:street | South Linwood Avenue |
| gnis:county_id | 510 |
| gnis:created | 09/12/1979 |
| gnis:feature_id | 597877 |
| gnis:state_id | 24 |
| leisure | park |
| name | Patterson Park |
| operator | Baltimore City Department of Recreation & Parks |
| operator:short | BCRP |
| operator:type | public |
| operator:wikidata | Q110062922 |
| ref:bcrp | 200 |
| start_date | 1827-03-01 |
| type | multipolygon |
| wikidata | Q3660981 |
| wikipedia | en:Patterson Park |

You can run it on anything

```
nwr["leisure"="park"]({{bbox}});
```

Run Share Export Wizard Save Load Settings ? Help overpass turbo Map Data

```
1 /*
2 This has been generated by the overpass-turbo wizard.
3 The original search was:
4 "brand="wawa" and type:node"
5 */
6 [out:json][timeout:25];
7 // gather results
8 (
9   nwr["leisure"="park"]({{bbox}});
10 );
11 // print results
12 out body;
13 >;
14 out skel qt;
```

Leaflet | © OpenStreetMap contributors
Loaded – nodes: 22419, ways: 1284, relations: 96
Displayed – pois: 45, lines: 0, polygons: 846

Look at all the data!

Some are polygons in addition to ways and nodes and relations.

You'll need to figure out how you want to "normalize" your data types.

Look at all the data!

Some are polygons in addition to ways and nodes and relations.

You'll need to figure out how you want to "normalize" your data types.

```
1  /*
2  This has been generated by the overpass-turbo wizard.
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7  // gather results
8  (
9    nwr["brand"="Target"]({{bbox}});
10 );
11 // print results
12 out body;
13 >;
14 out skel qt;
```

Note that capitalization (almost always) matters.

Using the Wizard is another option to build a query, but I've had limited success.