

# Mapping with Drupal

- Hello world map
- Boris Doesborg
- Drupal site builder & analyst
- @batigolix on twitter and drupal.org

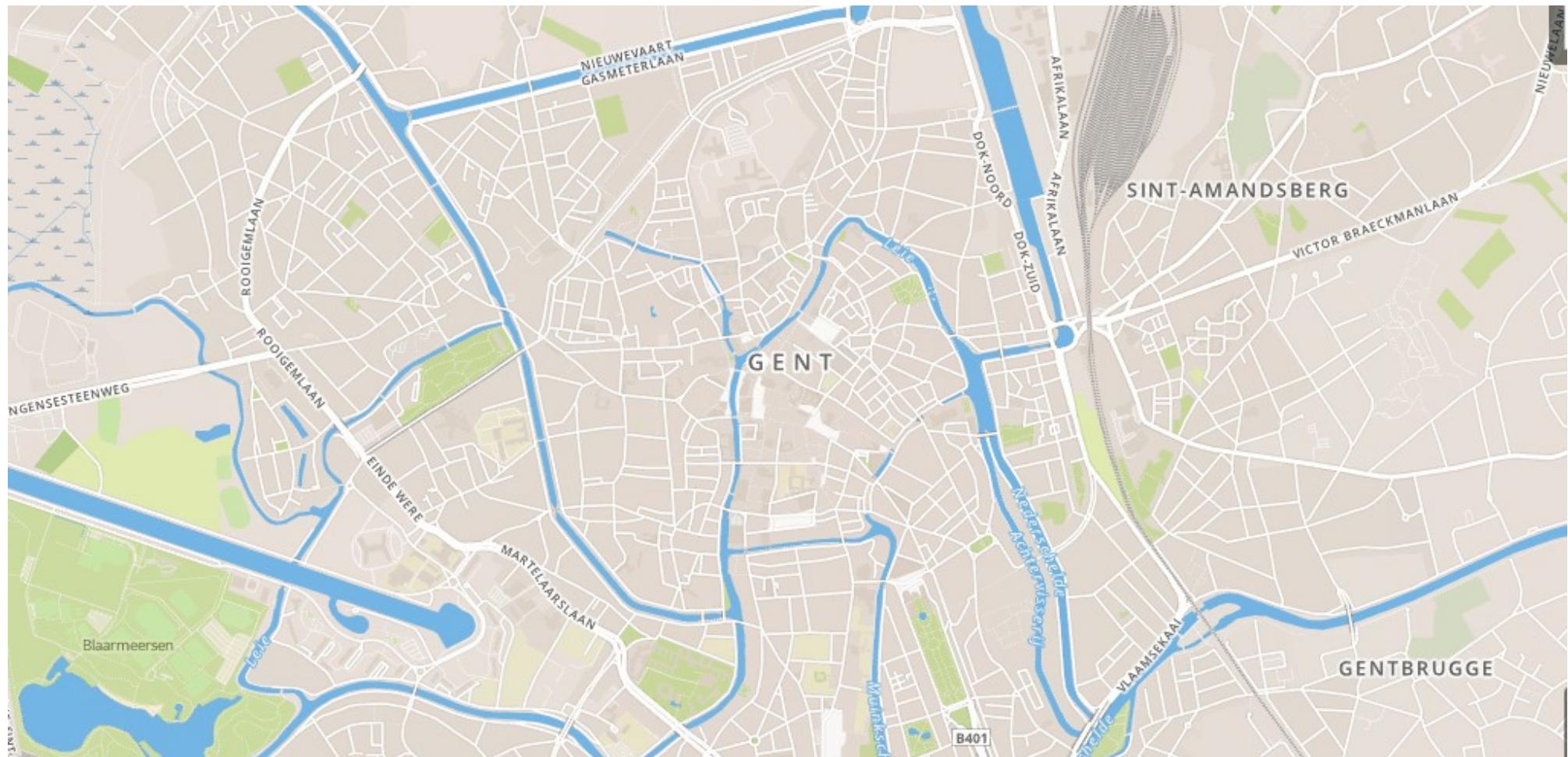
# Terms, names, concepts

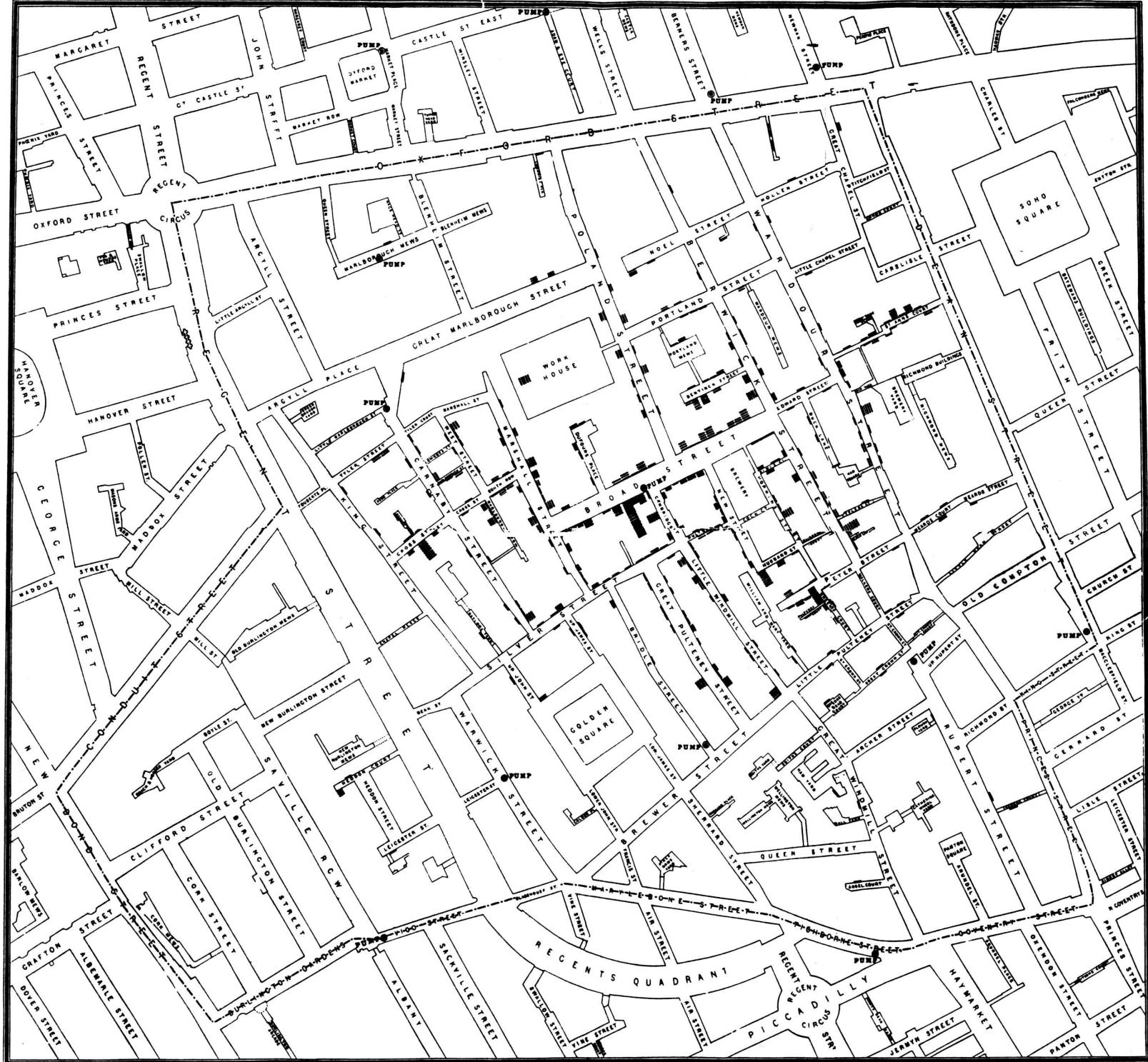
Addressfield, Base layer, Clustering, Coordinates,  
Computed field, Data overlay, Feeds, Feeds tamper,  
HTML5 geolocation, Geocoder, Geocoding, Geofield,  
Geofield Map, GeoJSON, Geolocation, Geophp,  
Geospatial data, Gmap, KML, Latitude, Libraries, Line,  
Location, Longitude, Mapbox, Map configurations,  
Point, Polygon, Projection, Styles, Tilemill, Tiles, WKT

# Google

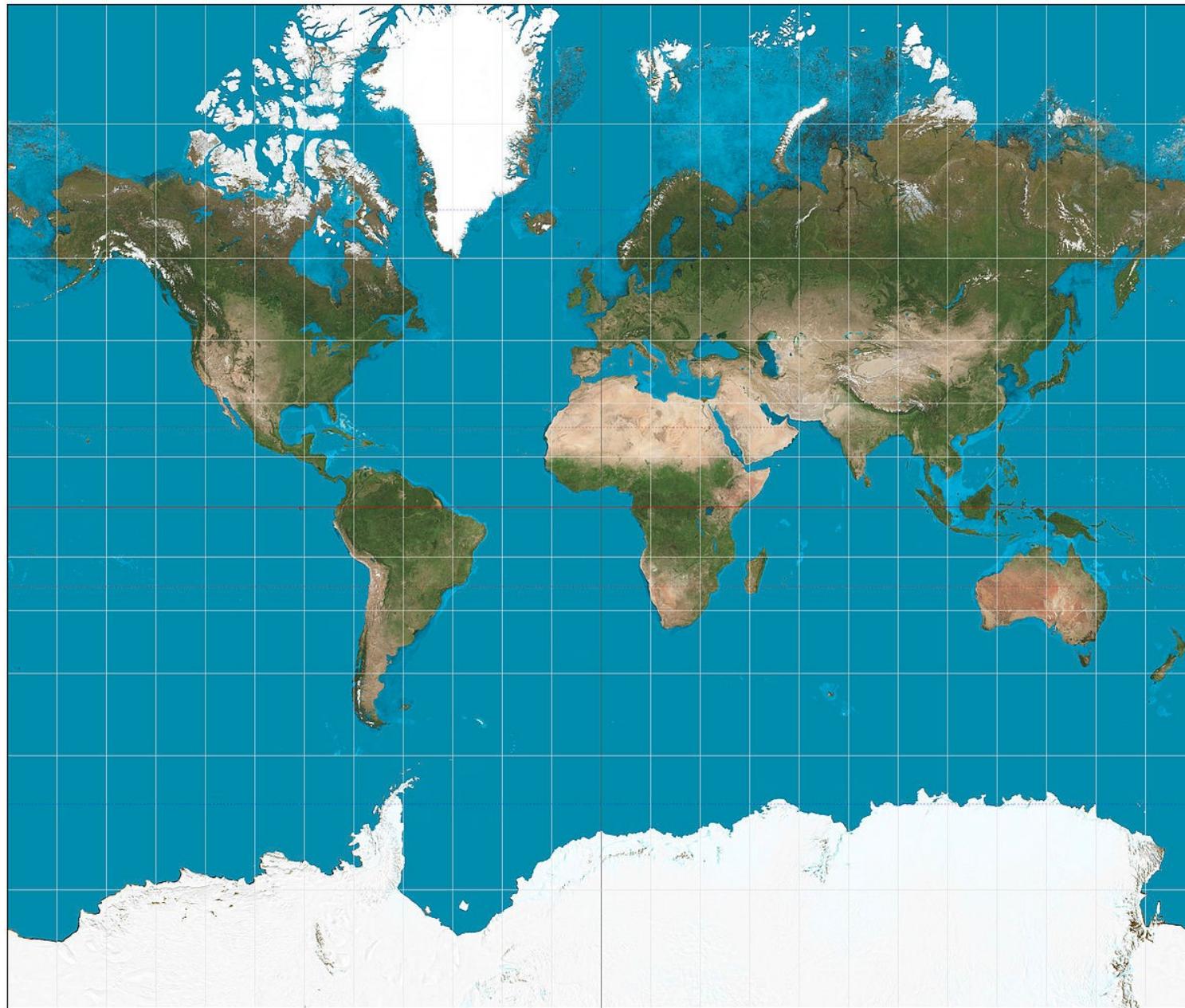


# Mapbox

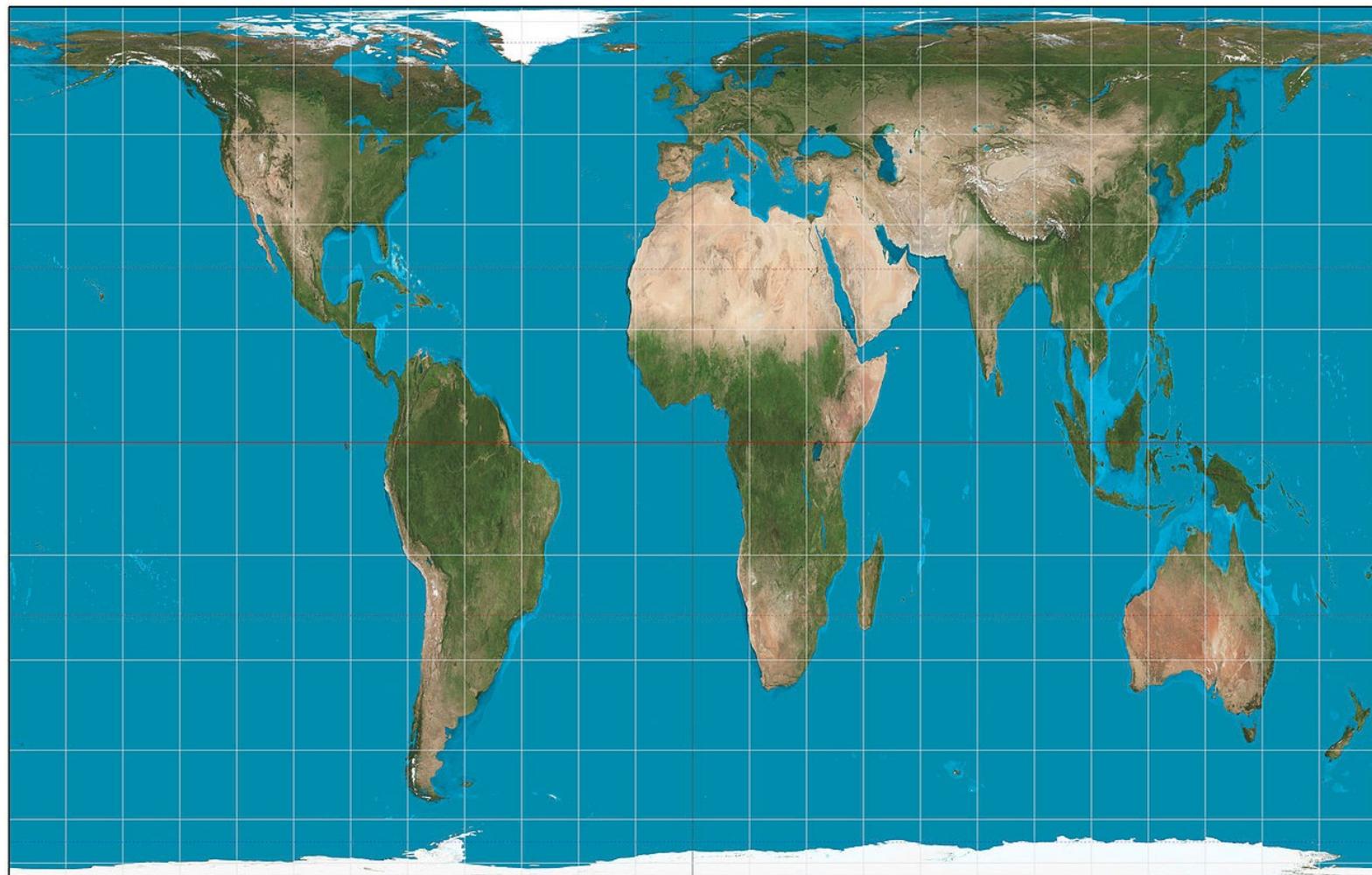




# Projection (Mercator)



# Projection (Gall-Peeters)





# Coordinates

- **Latitude**

Above equator is positive, below is negative.

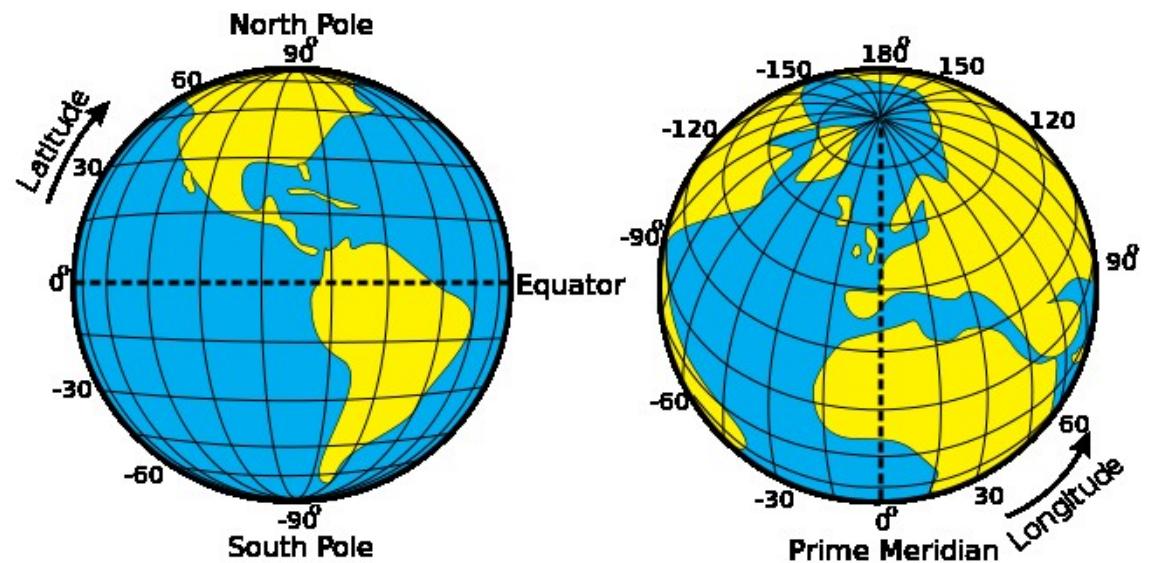
- **Longitude**

East from Greenwich is positive, west is negative.

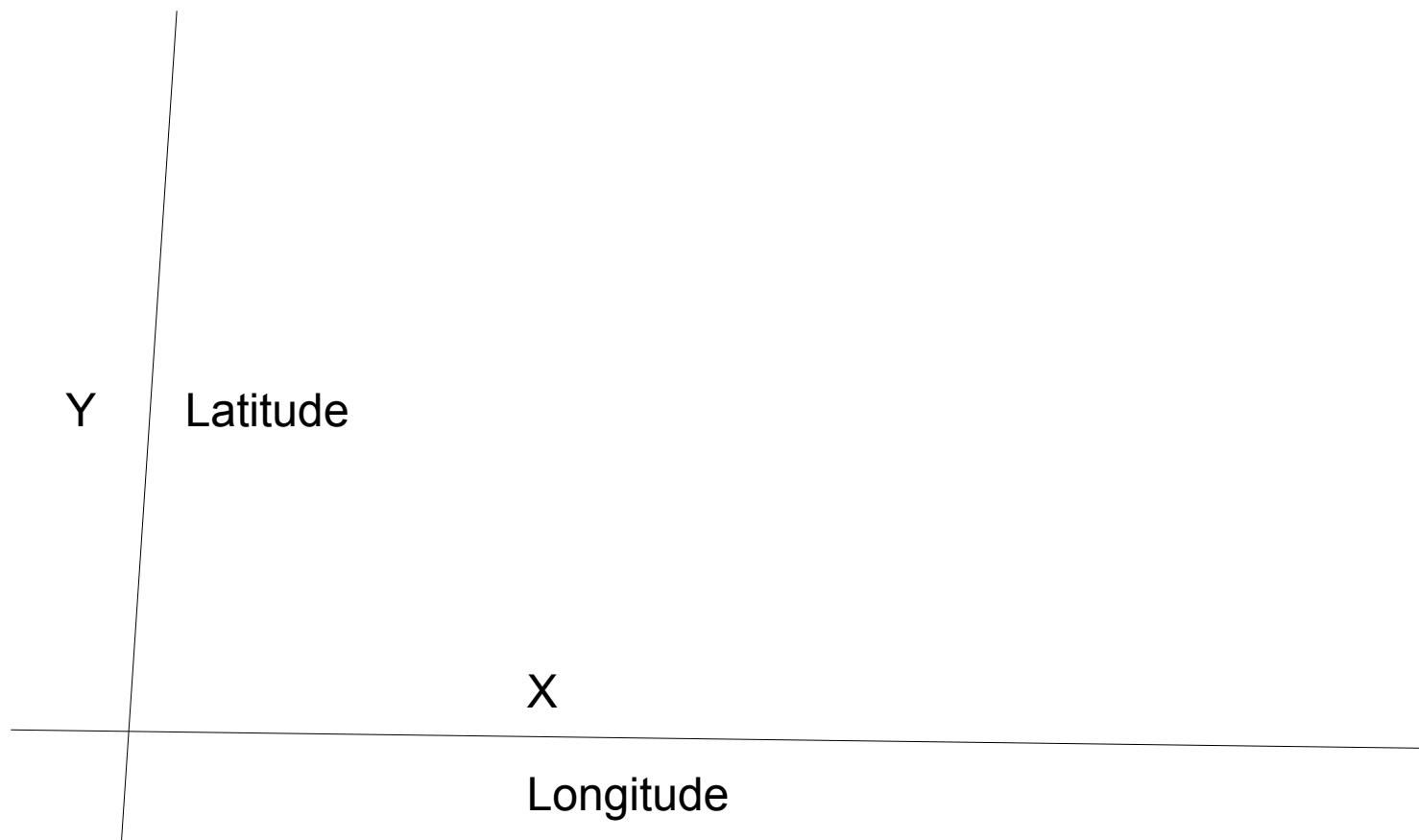
- Citilab, Cornellà is

Lat 41.35059

Long 2.068005

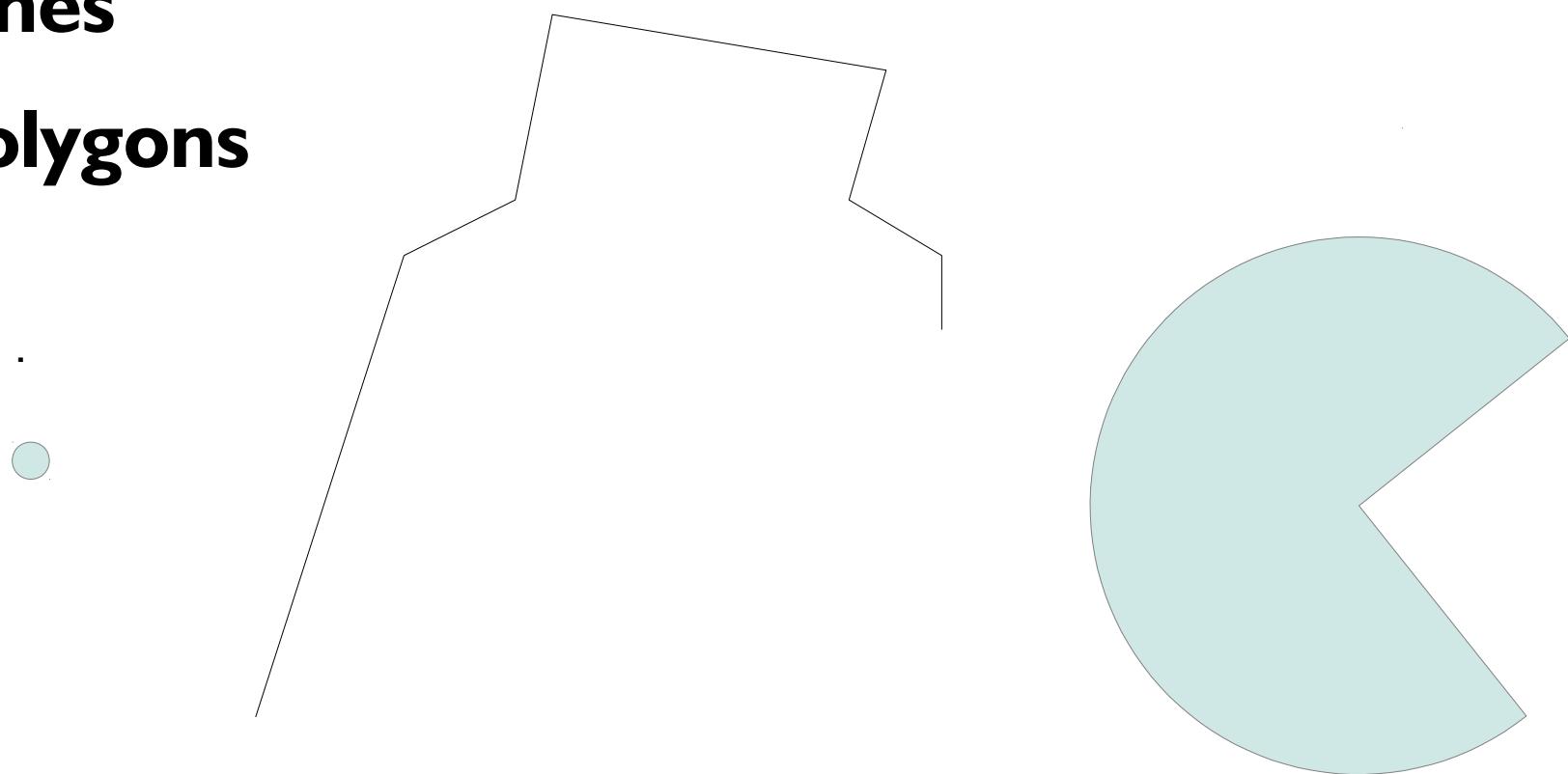


# Longitude first



# Geospatial data

- Points
- Lines
- Polygons



# Well known text - WKT

POINT 2.068005,41.35059

- POLYGON((-73.924942016601 -73.909149169922  
-73.934555053711 -73.927688598633  
-73.975067138672 -74.020385742188  
-74.010086059571 -73.924942016601))

# Keyhole Markup Language - KML

```
<kml xmlns="http://www.opengis.net/kml/2.2" xmlns:kml="http://www.opengis.net/kml/2.2" xmlns:gx="http://www.google.com/kml/ext/2.2" xmlns:atom="http://www.w3.org/2005/Atom">  
  <Placemark>  
    <name>Citilab, Cornellà</name>  
    <address>Plaça Can Suris, Cornellà de Llobregat</address>  
    <Point><coordinates>2.068005,41.35059</coordinates></Point>  
  </Placemark>  
</kml>
```

# **GeoJSON**

# Storing spatial data in Drupal

- Geofield
- Location

The screenshot shows a Drupal website with a blue header. The header features the logo 'Bluemarine' with the subtitle 'classic Drupal'. A search bar and a 'Search' button are on the right. Below the header, a horizontal menu bar contains links: 'Esse Pagus | Causa Fere | Accumsan Ille', followed by 'Home | Blogs | Gemino Nunc | Duis Macto | Comis Ea | Ad Uxor | Os Vereor'.

The main content area has a sidebar on the left with three sections: 'Main menu', 'Navigation', and 'Management'. The 'Main menu' section lists items like Home, Blogs (with sub-items Esse Pagus, Causa Fere, Accumsan Ille), Gemino Nunc, Duis Macto, Comis Ea, Ad Uxor, and Os Vereor. The 'Navigation' section has an 'Add content' link. The 'Management' section has an 'Administration' link.

The main content area displays a blog post titled 'At Populus' with three tabs: 'View' (selected), 'Edit', and 'Devel'. The post's creation date is Fri, 10/22/2010 - 14:15 by user 'brestupho'. The post content is a long Latin text. Below the post, there are two more paragraphs of Latin text, likely from the same or a related post.

# Geocoding

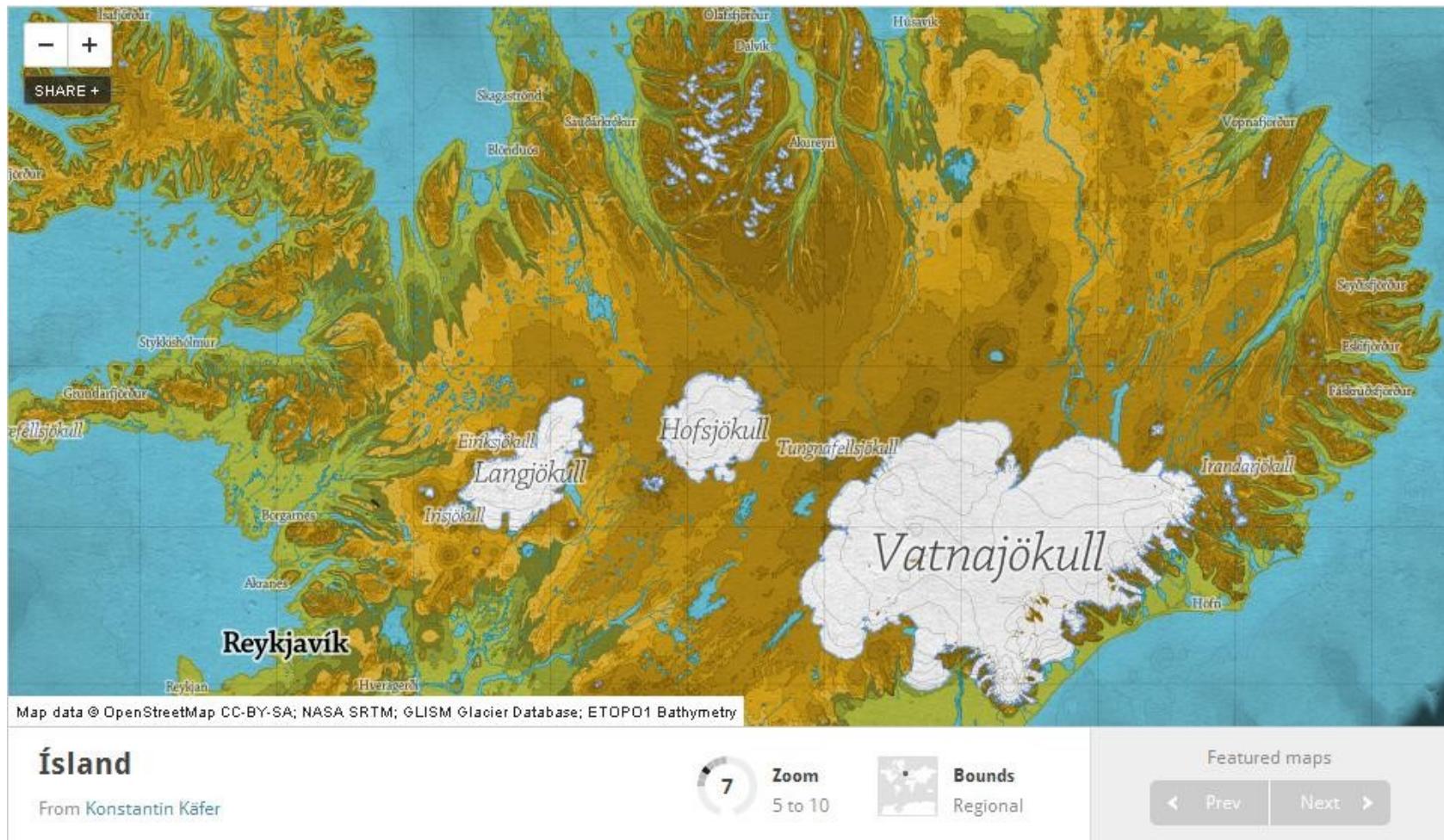
Translates "Cornellà" to "2.068005,41.35059"

- Location module has built in
- For D7: geocoder & addressfield

# Openlayers

- Layers (base layers & data)
- Maps (map configurations)
- Styles

# Baselayers & tiles



# **Providers baselayers**

- Yahoo
- Google
- Bing
- Open street map
- Mapbox
- Cloudmade

# Openlayers

- Layers (base layers & data)
- Maps (map configurations)
- Styles



# Openlayers & Views

<!-- insert confusion warning -->

- 1 data overlay in Views
- 2 map config in Openlayers
- 3 map page in Views

# Import data?

- Feeds
- Feeds tamper
- Computed field
- And then geocoder & geofield

# Mapbox

- Hosted tiles
- Customize maps with Tilemill
- 
- <http://andrewsalzberg.com/metromap/>
- <http://southafrica.mixmarket.org/#coop>
- <http://stopwatchnyc.com/#>
- <http://danieljwood.github.com/DC-crime/>

# **Some current developments**

- Things are moving
- No maintainer for Openlayers module  
<http://groups.drupal.org/node/235273>
- Google map attribution pop up
- Mapbox module not up-to-date with Mapbox capabilities  
<http://drupal.org/project/issues/mapbox>
- Lack of documentation
- Install profile for a Drupal mapping solution
- Clustering: server side

# Current developments

- Geofield easier to install
- Search for an Openlayers alternative: Leaflet
- Sprint yesterday at #drupaldevdays
- Josef Dabernig – dasjo
- <http://groups.drupal.org/node/234168>
- Improved docs: <http://drupal.org/node/241563>
- Upload wkt files as field (drupol)  
<http://drupal.org/node/1626714>

# **Mediacurrent webinar**

- Mediacurrent
- Power of maps and Drupal 7
- <http://www.mediacurrent.com/blog/webinar-power-maps-and-drupal>

# Book



# Mapping with Drupal

O'REILLY®

*Alan Palazzolo  
& Thomas Turnbull*

# **Mediacurrent webinar**

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- <http://www.mediacurrent.com/blog/webinar-power-maps-and-drupal>

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- Questions?
- Answers?

# Image credits

- Wikipedia
- Mapbox
- Google

# Contact

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