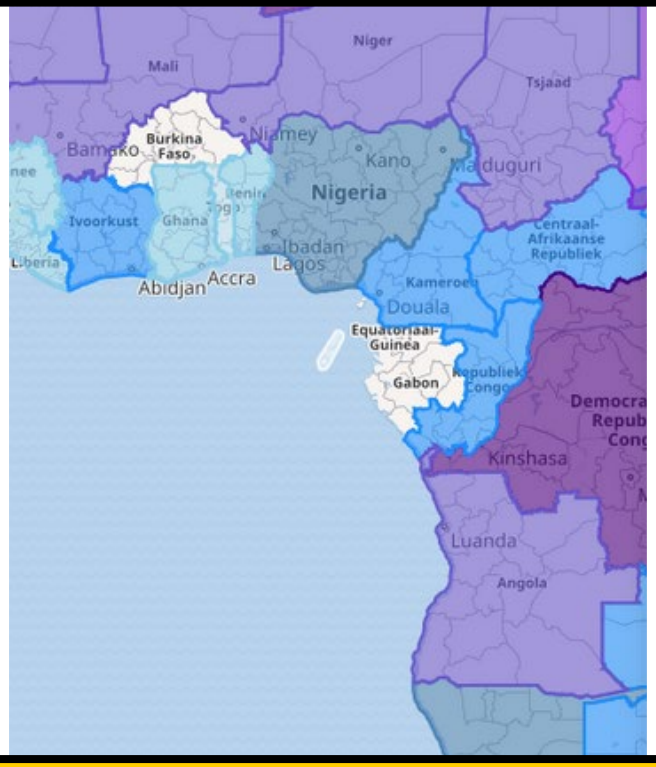
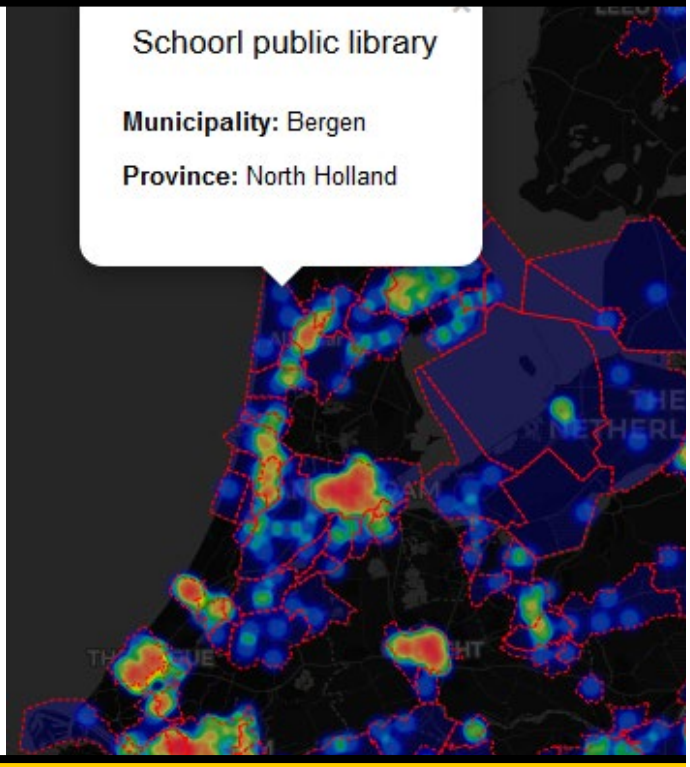
Map making workshop

from Wikidata to interactive off-Wiki maps in three steps





Event, Location, Date

Olaf Janssen, National Library of the Netherlands

User:OlafJanssen // olaf.janssen@kb.nl // @ookgezellig

KB | nationale bibliotheek

CC BY SA

https://github.com/ookgezellig/WikidataMapMakingWorkshop/blob/master/README.md

ookgezellig / WikidataMapMakingWorkshop

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Branch: master ▾ WikidataMapMakingWorkshop / README.md

Find file

ookgezellig Update README.md

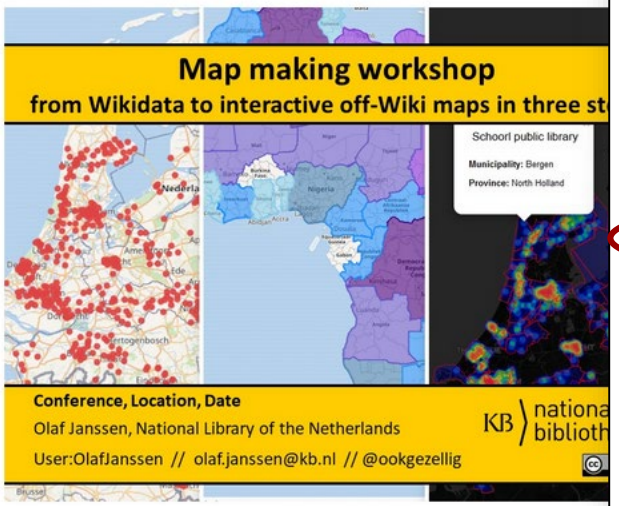
1 contributor

74 lines (51 sloc) | 7.39 KB

Raw | Blame | History

Map making workshop – from W
Wiki maps in three steps

Latest update: 21 November 2019



Workshop description

In this 90-120 minutes workshop you will learn how to make both flat, clustered, layered, embedded, interactive, on-Wiki and off-Wiki maps from sets of geo-referenced (P625) items in Wikidata.

You will do this in 3 modules of approx. 30-40 minutes each:

- **Module 1**: You will start by making various basic flat and clustered maps in Wikidata using SPARQL queries. Next you will make some layered maps, where groups of items can be toggled on/off in the map.
- **Module 2**: After having explored maps in the Wikidata query interface, you are now ready to learn how to embed Wikidata-driven maps in other Wikimedia projects, such as Wikipedia and Commons (examples). In addition to SPARQL we will look at OpenStreetMap, GeoJSON and the Mediawiki Kartographer extension.
- **Module 3**: Finally you will learn the steps for creating interactive, layered Wikidata-driven maps that can be used off-Wiki, ie. in regular HTML pages. In addtition to the above tools & techniques, we will use some basic Python, Jupyter Notebooks (PAWS), Jupyter Leaflet and Jupyter widgets.

See the full outline of the workshop for a more detailed description.

Intended audiences

While this workshop is tech-focused and will discuss basic Wikidata, Wikipedia and Wikimedia Commons techniques and programming tools, it is meant to be approachable by beginning Wikidata contributors and programmers. The workshop leader, by no means an advanced Python programmer nor Wikidata nor SPARQL guru himself, is providing examples and code snippets that you can easily adapt yourself with basic SPARQL, Wikidata and Python skills, to make them work for your own datasets.

As the workshop is comprised of three 30-40 minute modules, you can decide to skip the modules that you find too advanced (or basic) for your individual knowledge level.

Full workshop outline & notes

Workshop outline and notes

Latest update: 21 November 2019

Module 1: Basic flat & layered maps

Prerequisites for this Module

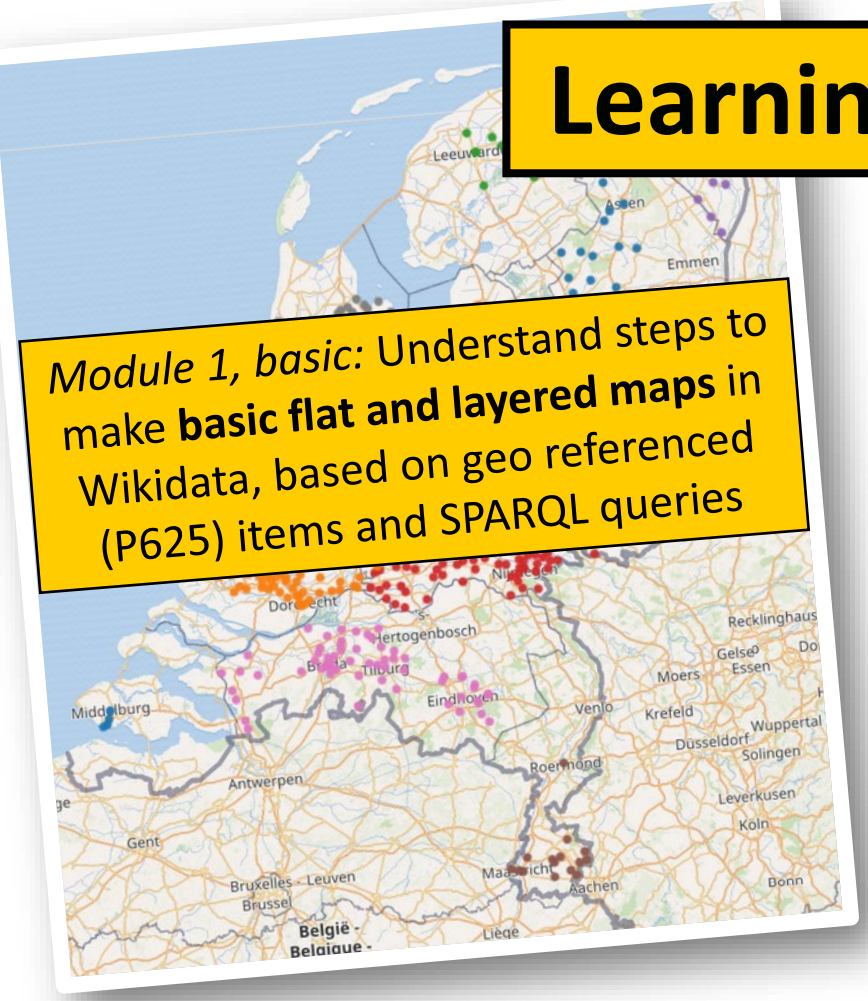
- Wikimedia account
- Working knowledge of Wikidata
- Basic understanding of SPARQL and the Wikidata Query Service (WDQS)
- A Wikidata set of items with geo coordinates P625

If you do not have, or cannot create such a Wikidata set, you can use one of these:

1. Public libraries in The

https://github.com/ookgezellig/WikidataMapMakingWorkshop/blob/master/OutlineAndNotes.md

Learning objectives

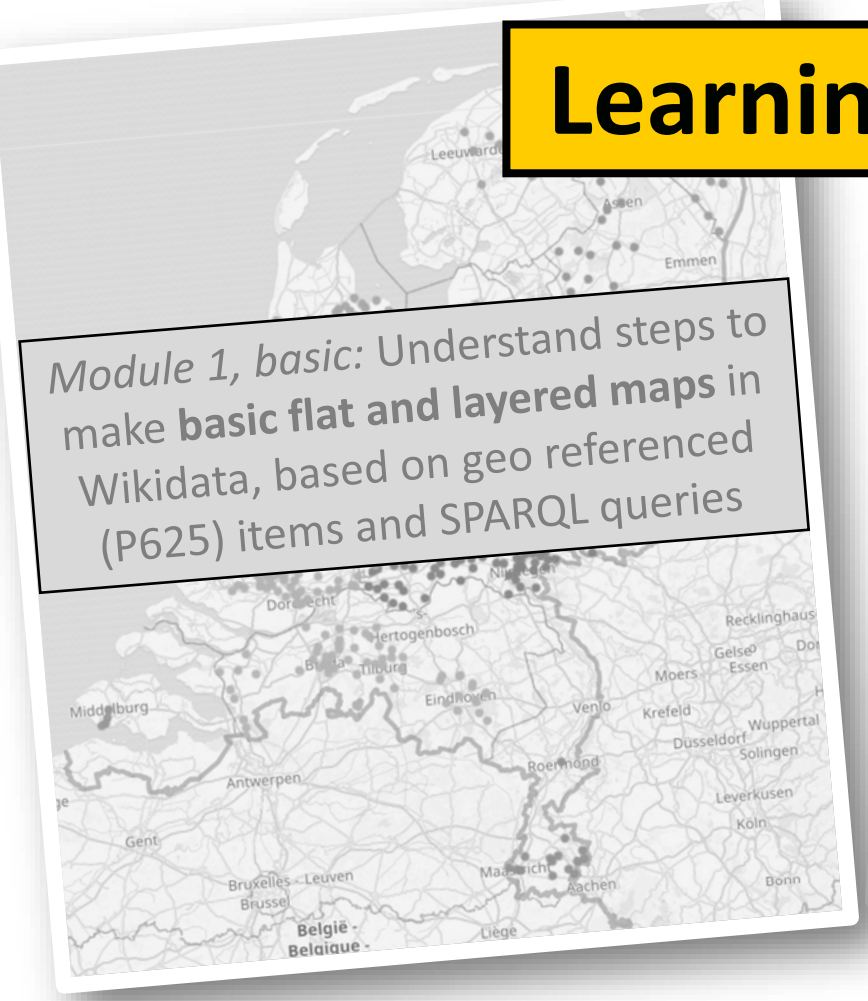


Module 1, basic: Understand steps to make **basic flat and layered maps** in Wikidata, based on geo referenced (P625) items and SPARQL queries

Learning objectives

Module 1, basic: Understand steps to make **basic flat and layered maps** in Wikidata, based on geo referenced (P625) items and SPARQL queries

Module 2, intermediate: Understand steps to **embed maps in Wikimedia sites** like Wikipedia, Wikimedia Commons and Wikidata

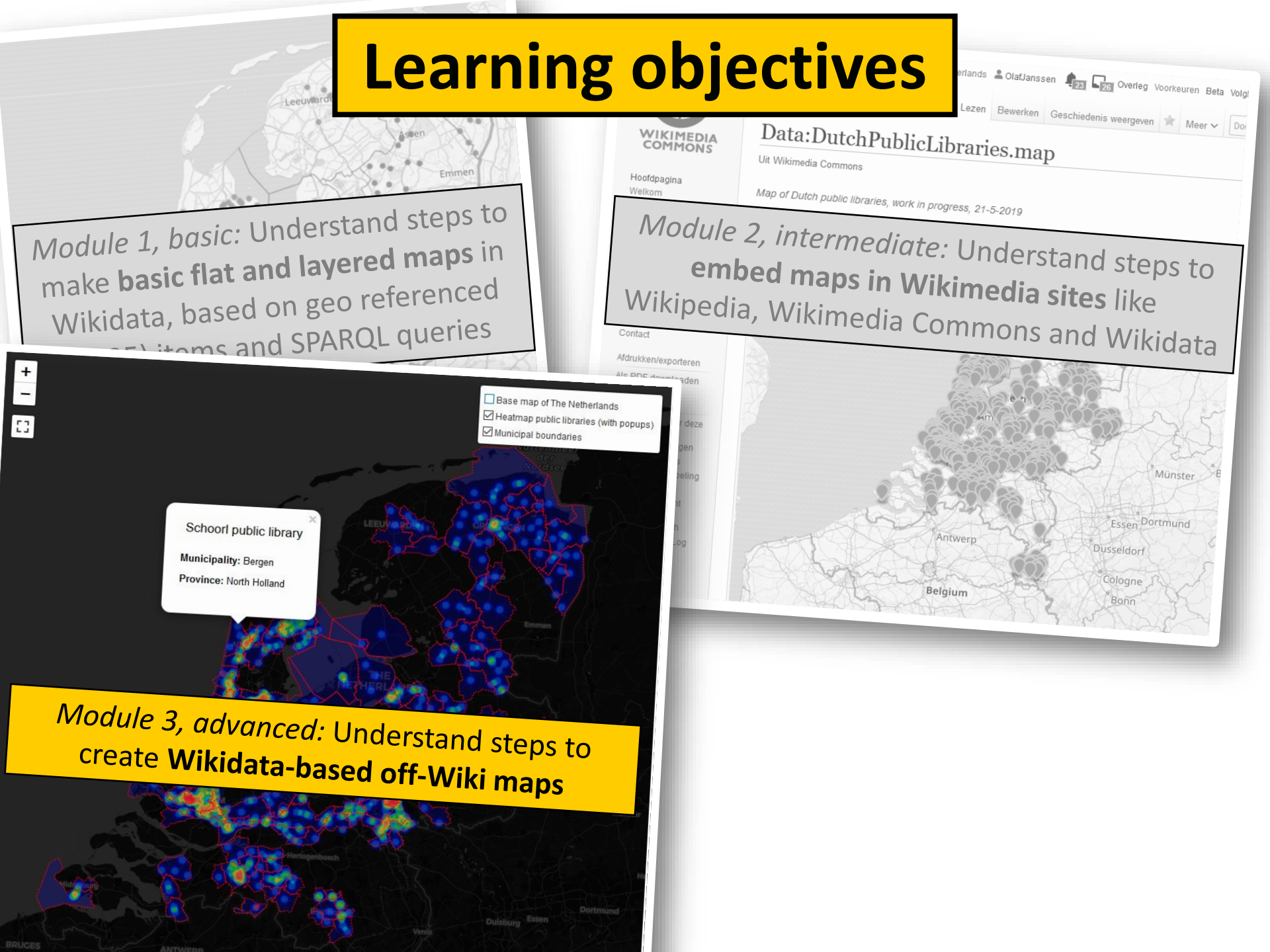


Learning objectives

Module 1, basic: Understand steps to make **basic flat and layered maps** in Wikidata, based on geo referenced items and SPARQL queries

Module 2, intermediate: Understand steps to **embed maps in Wikimedia sites** like Wikipedia, Wikimedia Commons and Wikidata

Module 3, advanced: Understand steps to create **Wikidata-based off-Wiki maps**



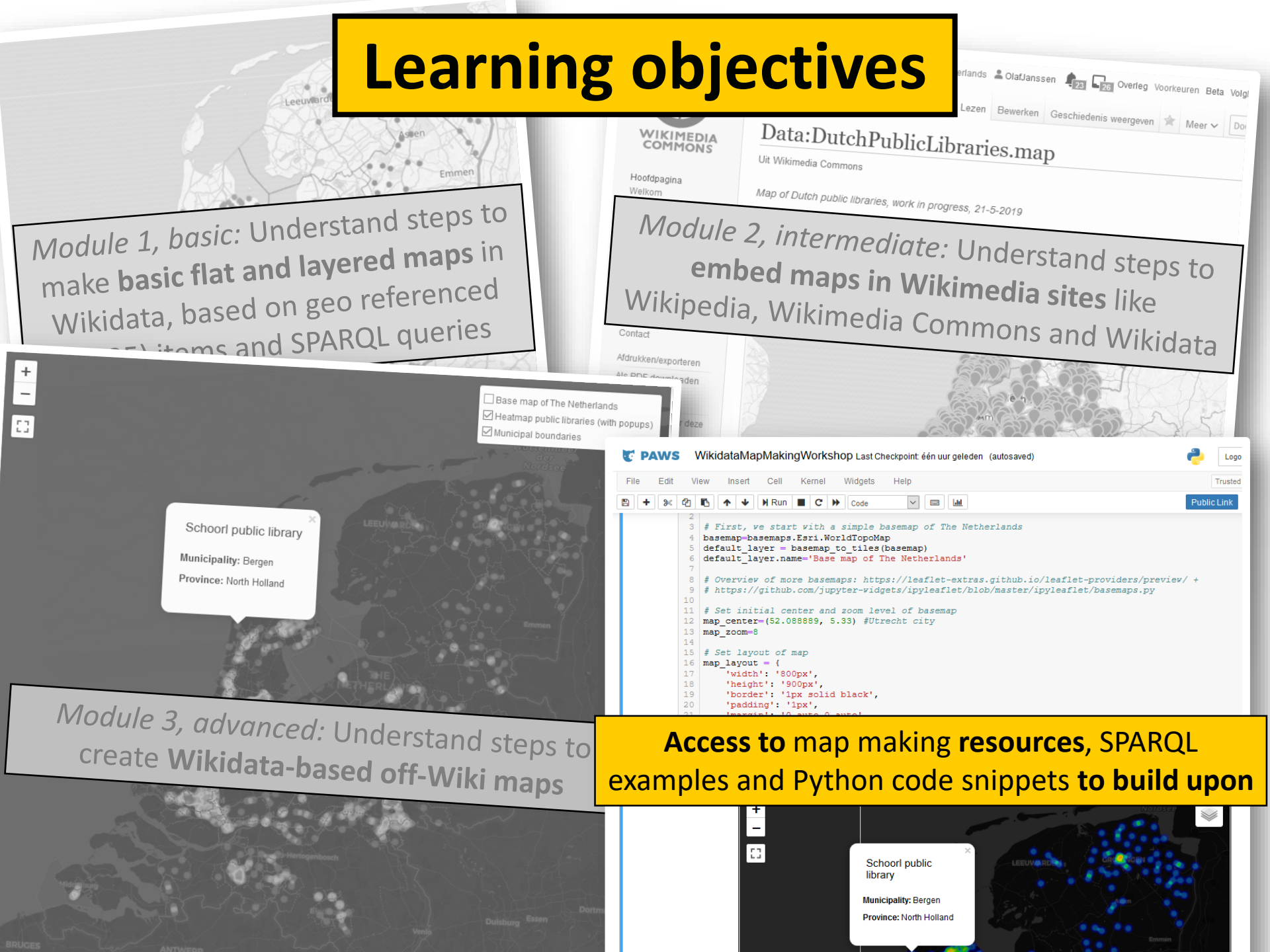
Learning objectives

Module 1, basic: Understand steps to make **basic flat and layered maps** in Wikidata, based on geo referenced items and SPARQL queries

Module 2, intermediate: Understand steps to **embed maps in Wikimedia sites** like Wikipedia, Wikimedia Commons and Wikidata

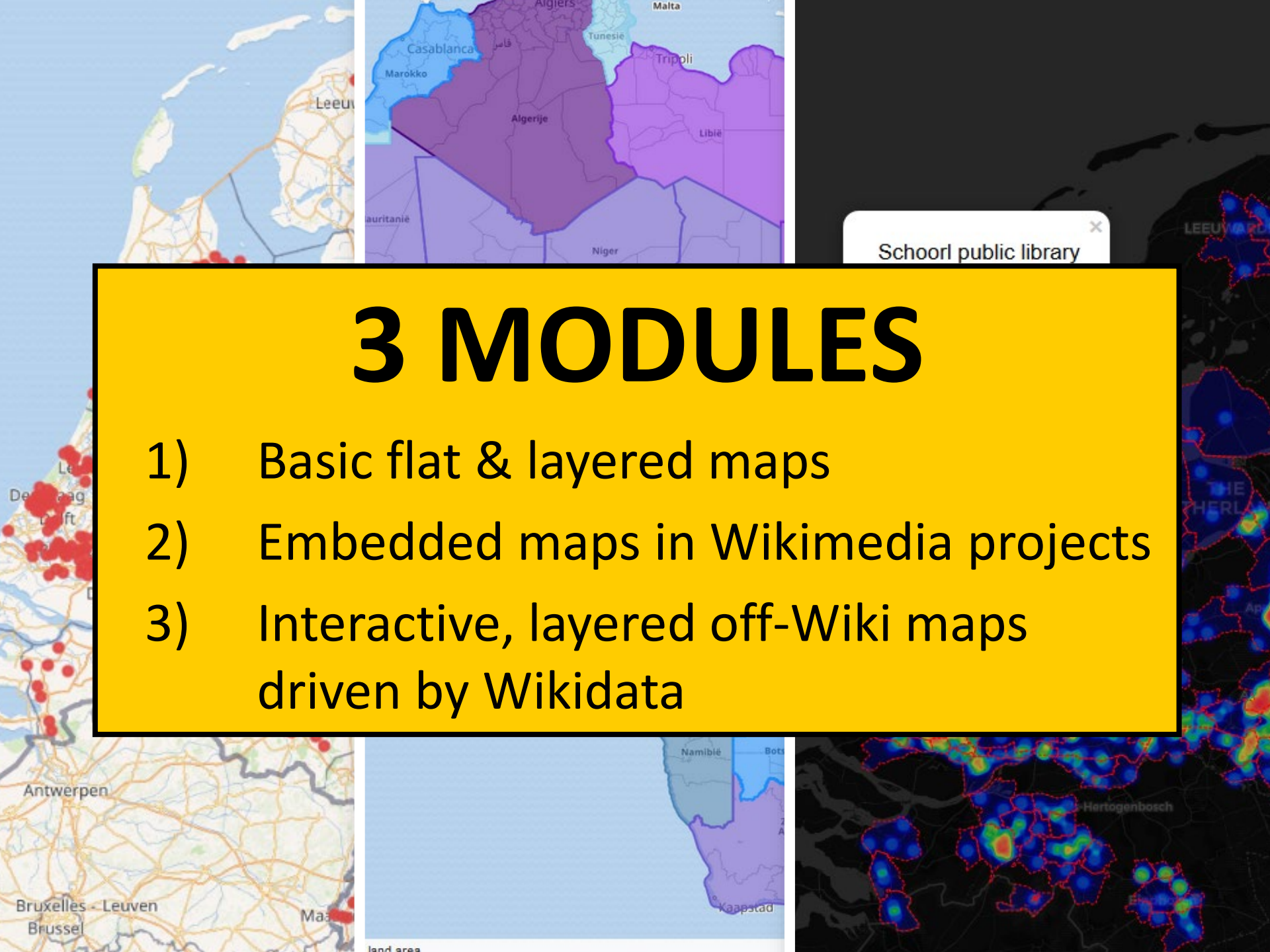
Module 3, advanced: Understand steps to create **Wikidata-based off-Wiki maps**

Access to map making **resources**, SPARQL examples and Python code snippets **to build upon**



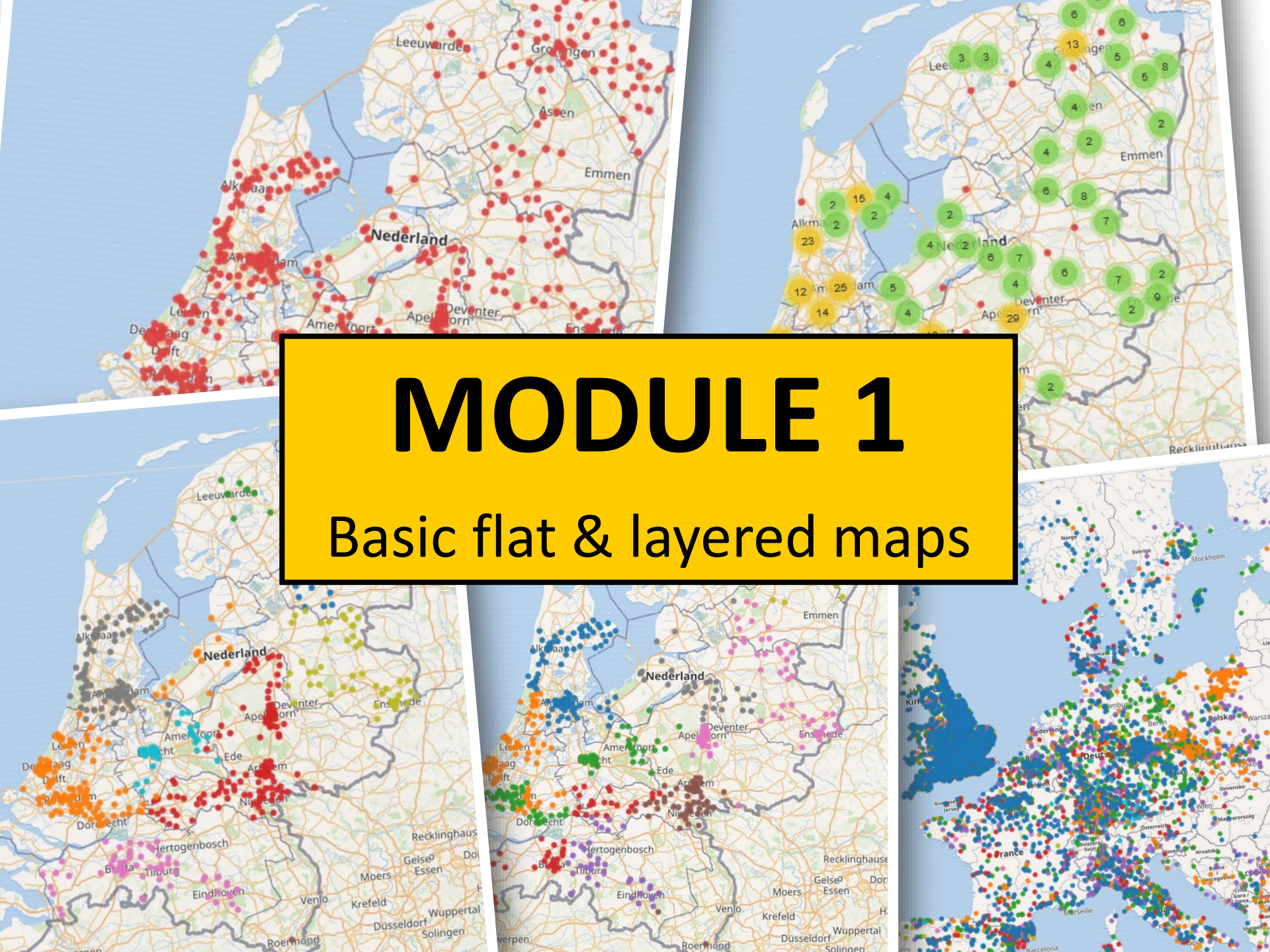
Tips & tricks welcome!

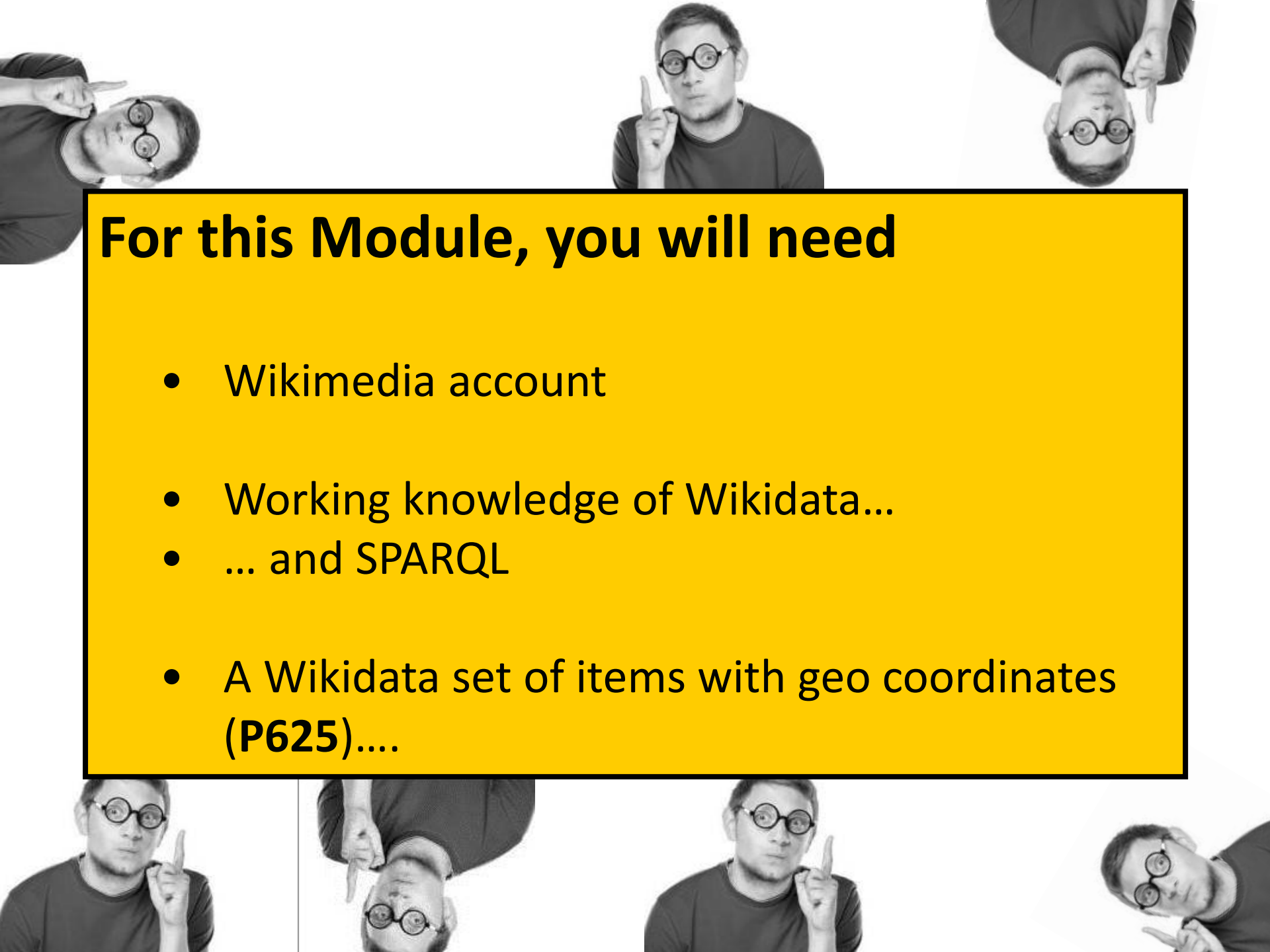
I’m not a maps / Wikidata / SPARQL guru….



3 MODULES

1) Basic flat & layered maps
2) Embedded maps in Wikimedia projects
3) Interactive, layered off-Wiki maps driven by Wikidata


MODULE 1
Basic flat & layered maps



For this Module, you will need

- Wikimedia account
- Working knowledge of Wikidata…
- … and SPARQL
- A Wikidata set of items with geo coordinates (**P625**)….

coordinate location (P625)

geocoordinates of the subject. For Earth, please note that only WGS84 coordinating system is supported at the moment

edit

coordinates | co-ordinate location | co-ordinates | coords | co-ords | geographic coordinate | gps coordinate | gps co-ordinate | gps coordinates | gps co-ordinates | gps location | geotag | wgs 84 | wgs-84 | wgs84 | position | longitude | latitude | gps | coordinate location | geographical coordinates | geo | location | point on a map | point on the globe | point on earth | location on earth | geolocation | geocoordinates | Location on map

In more languages

Language	Label	Description	Also known as
English	coordinate location	geocoordinates of the subject. For Earth, please note that only WGS84 coordinating system is supported at the moment	coordinates co-ordinate location co-ordinates coords co-ords geographic coordinate gps coordinate gps co-ordinate gps coordinates gps co-ordinates gps location geotag wgs 84 wgs-84 wgs84 position longitude latitude gps coordinate location geographical coordinates geo location point on a map point on the globe point on earth location on earth geolocation geocoordinates Location on map
German	geographische Koordinaten	Koordinaten eines sich auf der Erde befindlichen Objekts, momentan werden nur	Koordinate geografische Koordinate

P625

https://www.wikidata.org/wiki/Property:P625

Amsterdam

wd:Q9899

+ add value

coordinate location

P625

52°22'N, 4°53'E

edit

Point(4.883333,52.366667)

+ add value

office held by head of government

Mayor of Amsterdam

edit

0 references

+ add reference

+ add value

head of government

Femke Halsema

edit

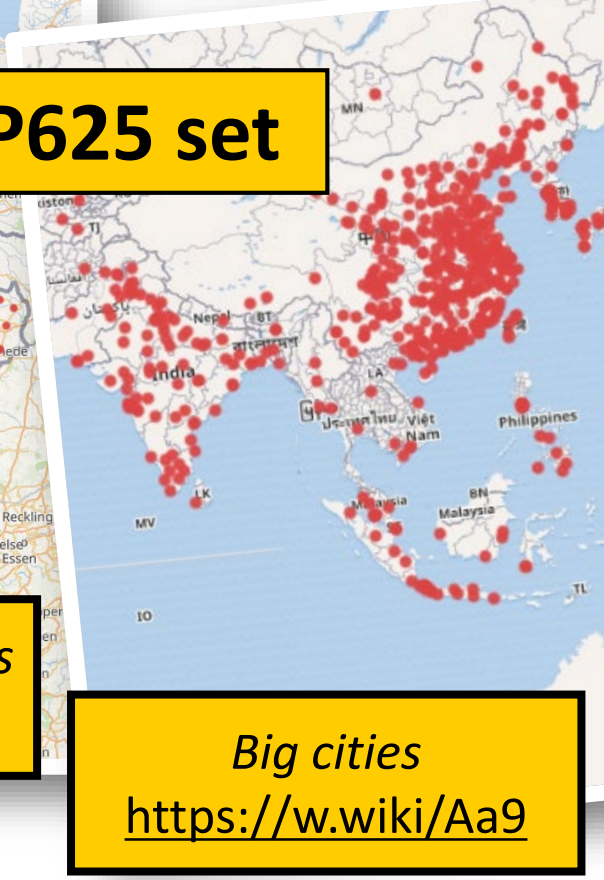
start time	12 July 2018
end time	*no value*

Time to create
your own P625 dataset
sapling

If you don’t have a Wikidata P625 set

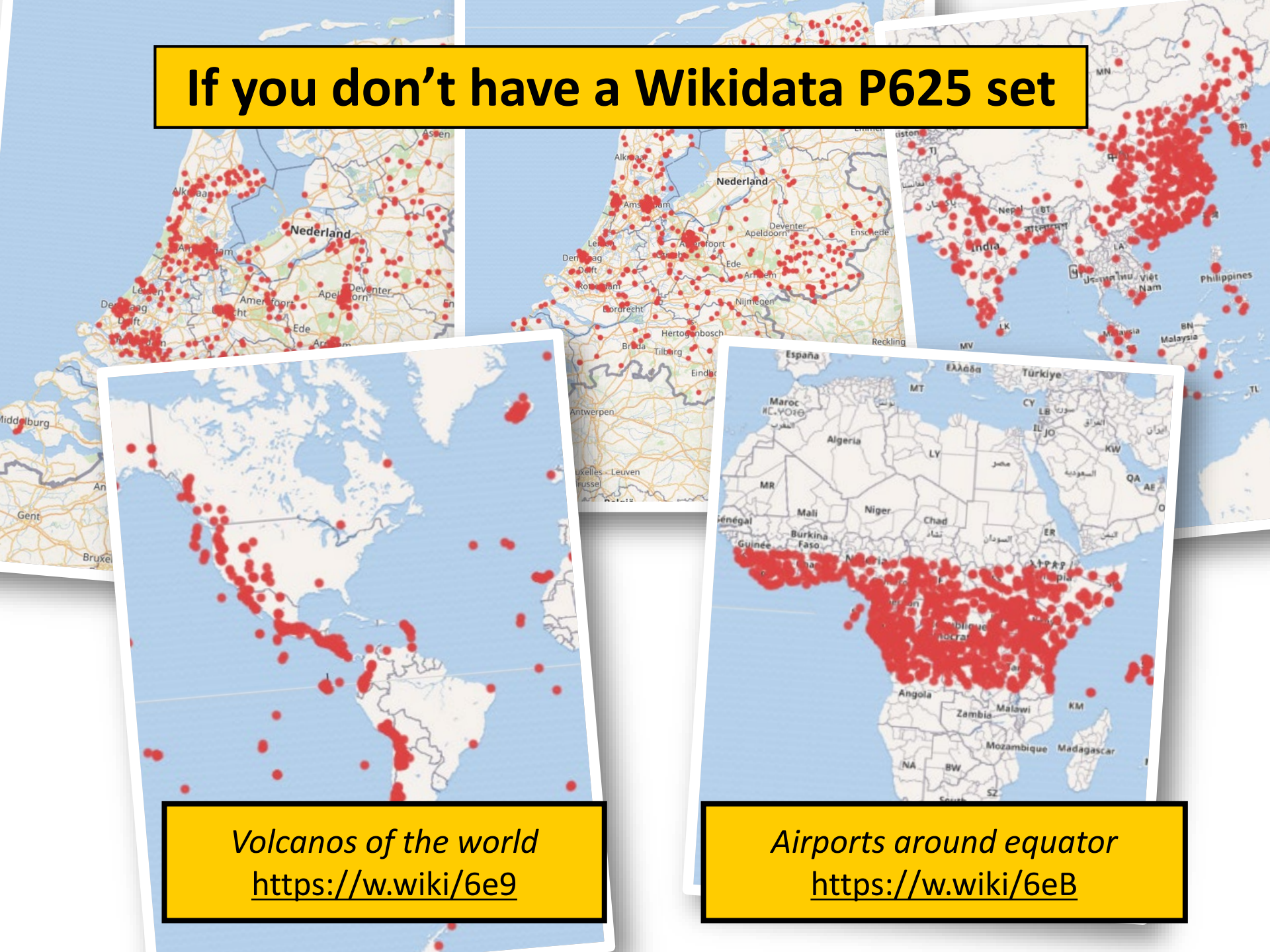
Public libraries in The Netherlands
https://w.wiki/6dx

Dutch national heritage sites
https://w.wiki/6dy



Big cities
https://w.wiki/Aa9

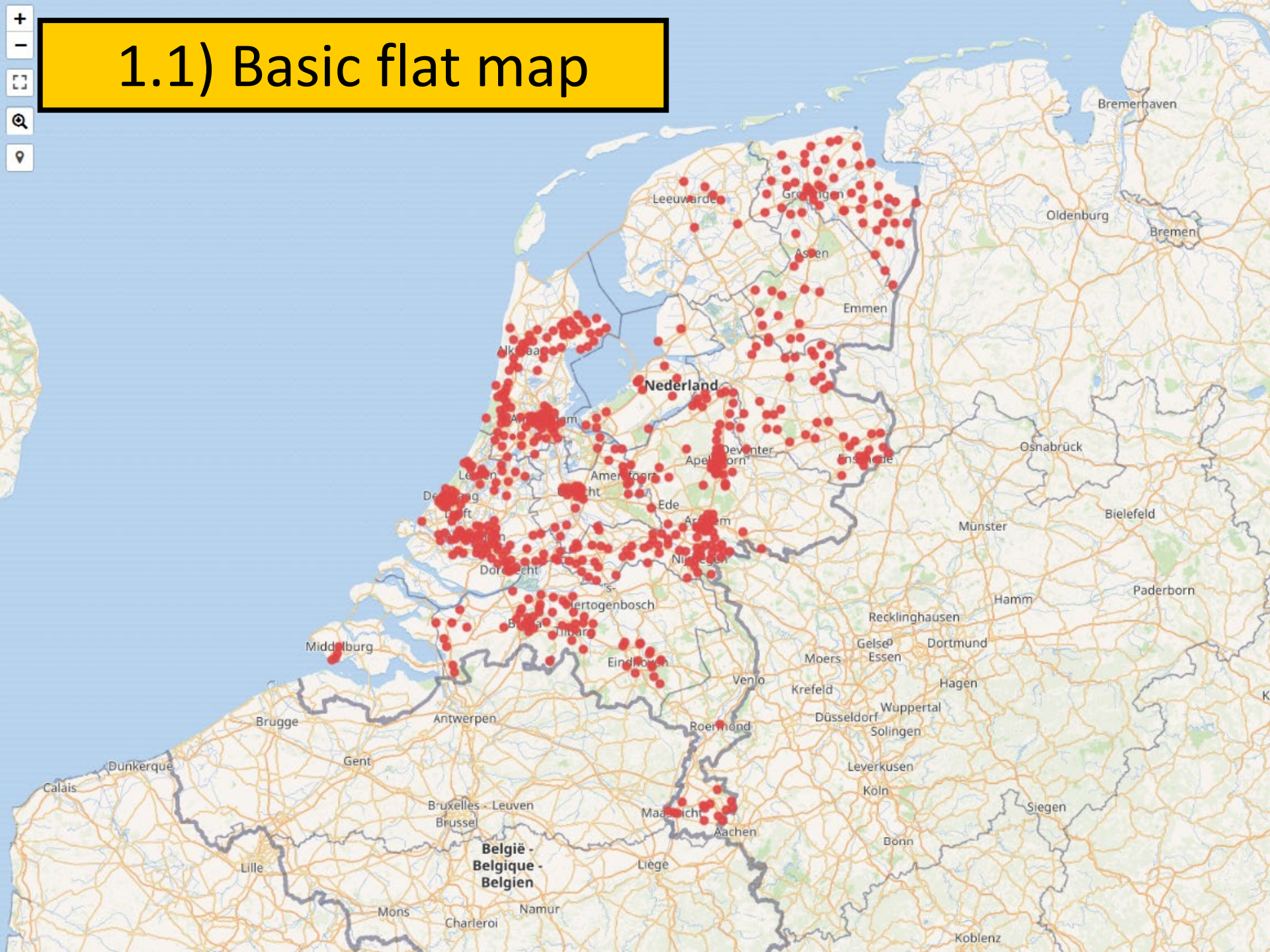
If you don’t have a Wikidata P625 set

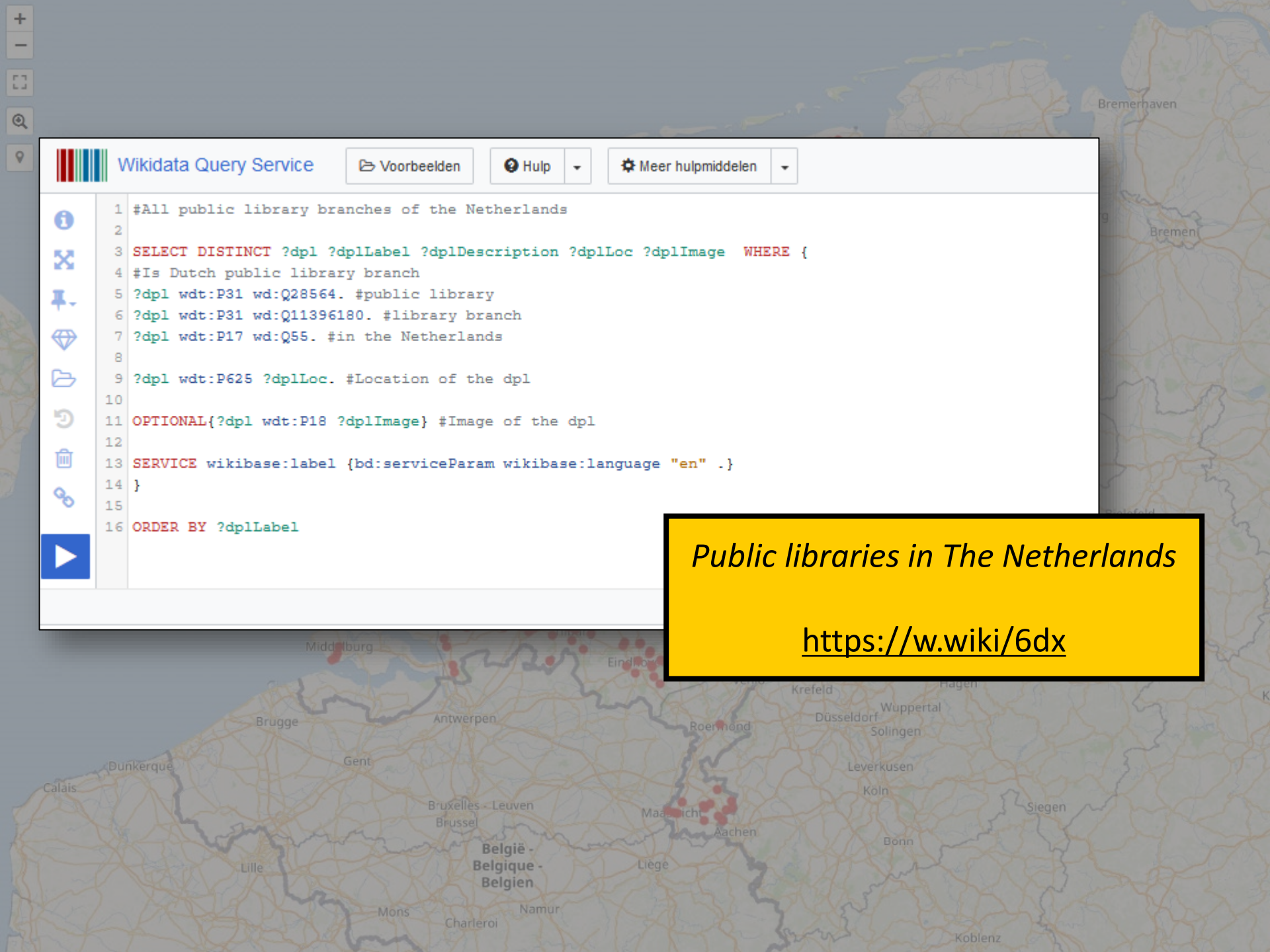


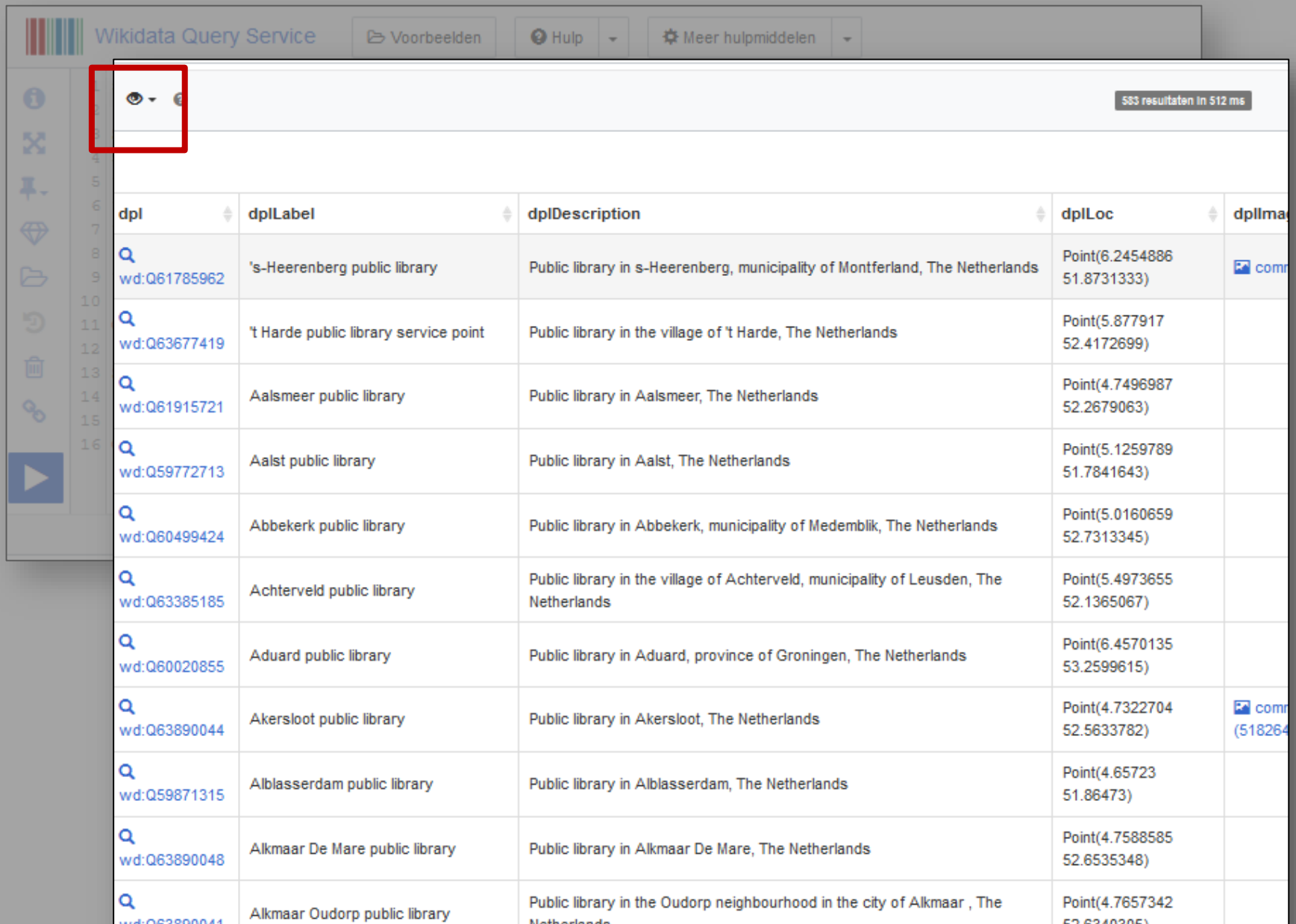
Volcanos of the world
https://w.wiki/6e9

Airports around equator
https://w.wiki/6eB

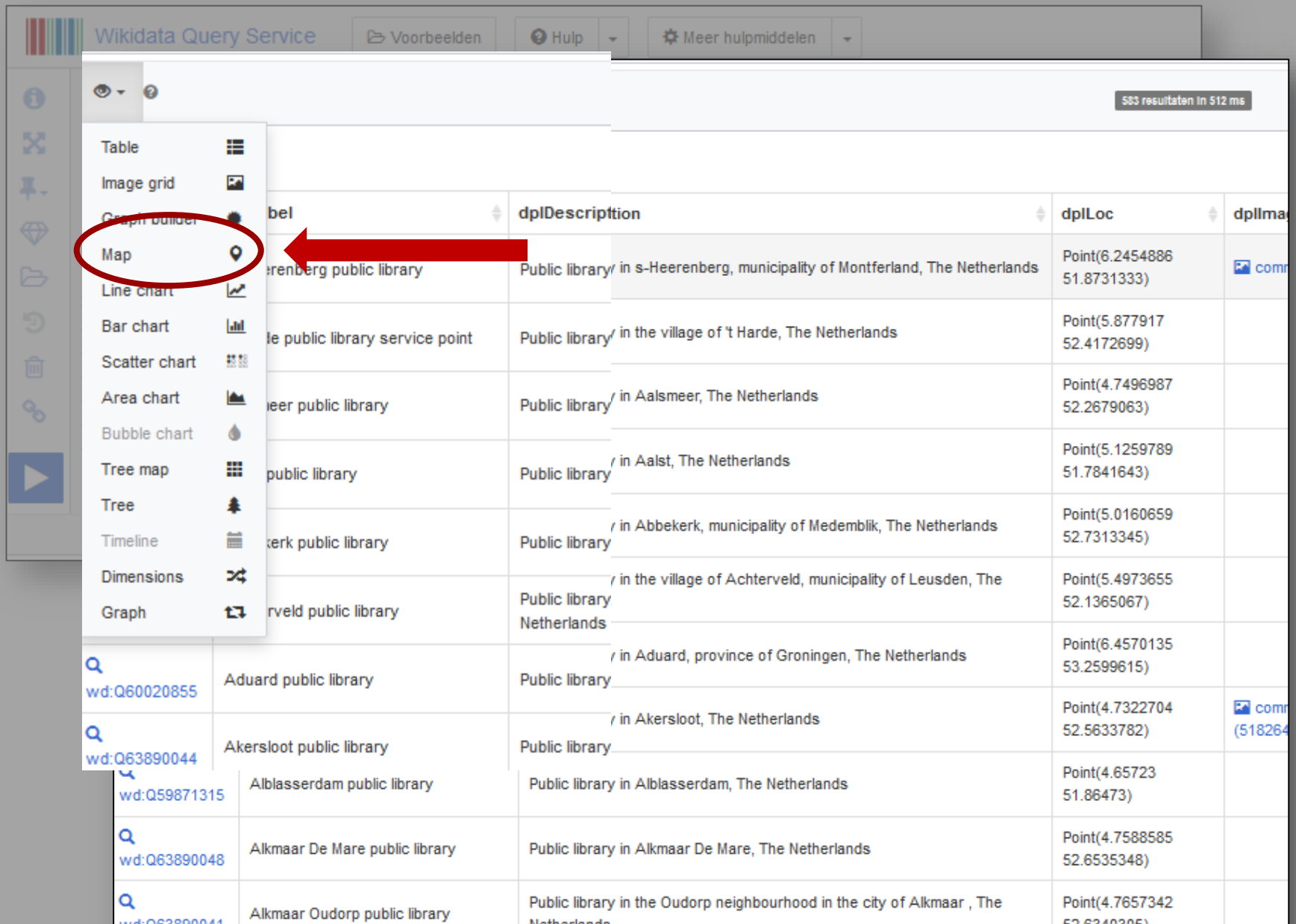
1.1) Basic flat map

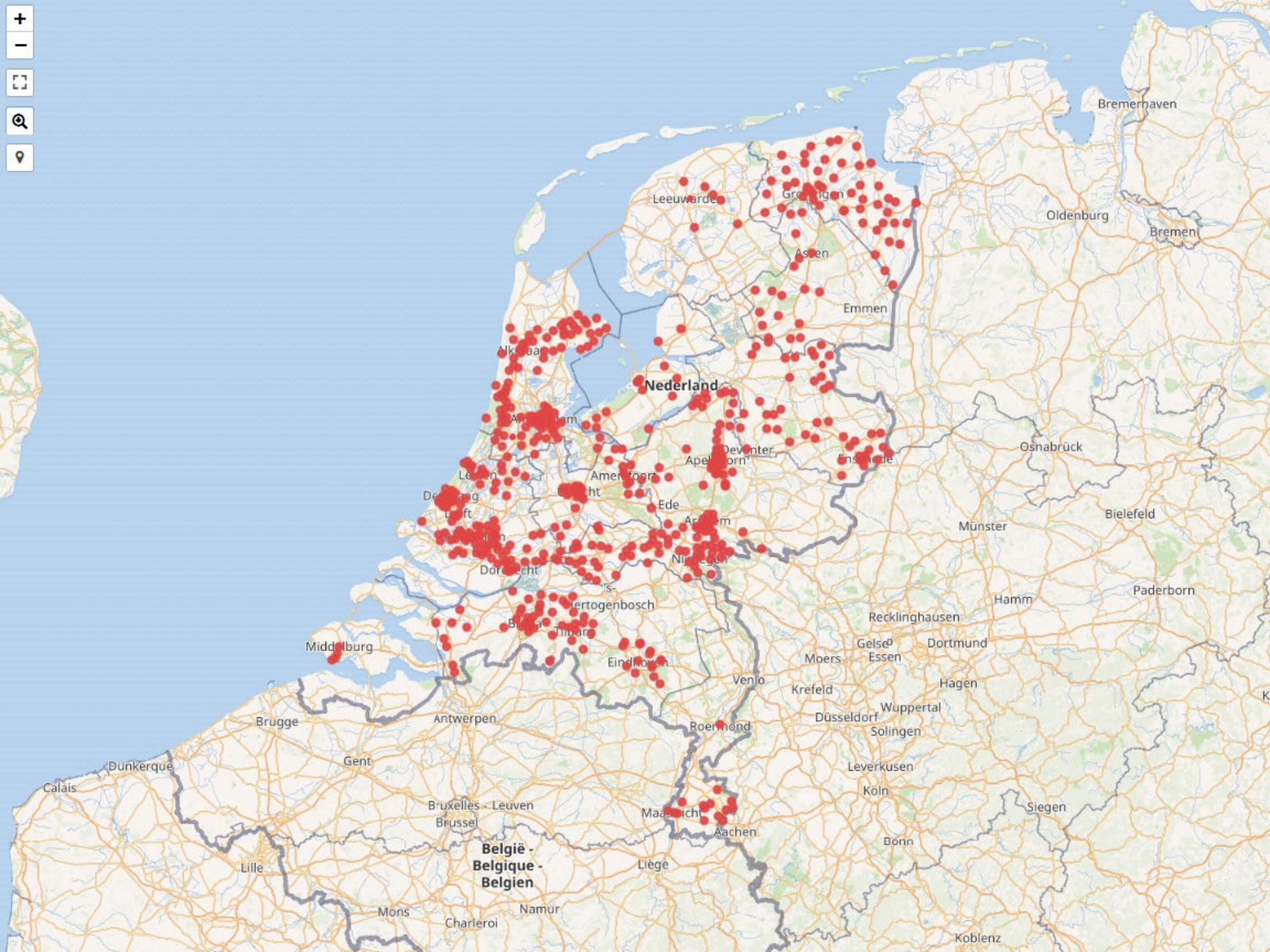



Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
#All public library branches of the Netherlands
SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands
?dpl wdt:P625 ?dplLoc. #Location of the dpl
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl
SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}
ORDER BY ?dplLabel
Public libraries in The Netherlands
https://w.wiki/6dx

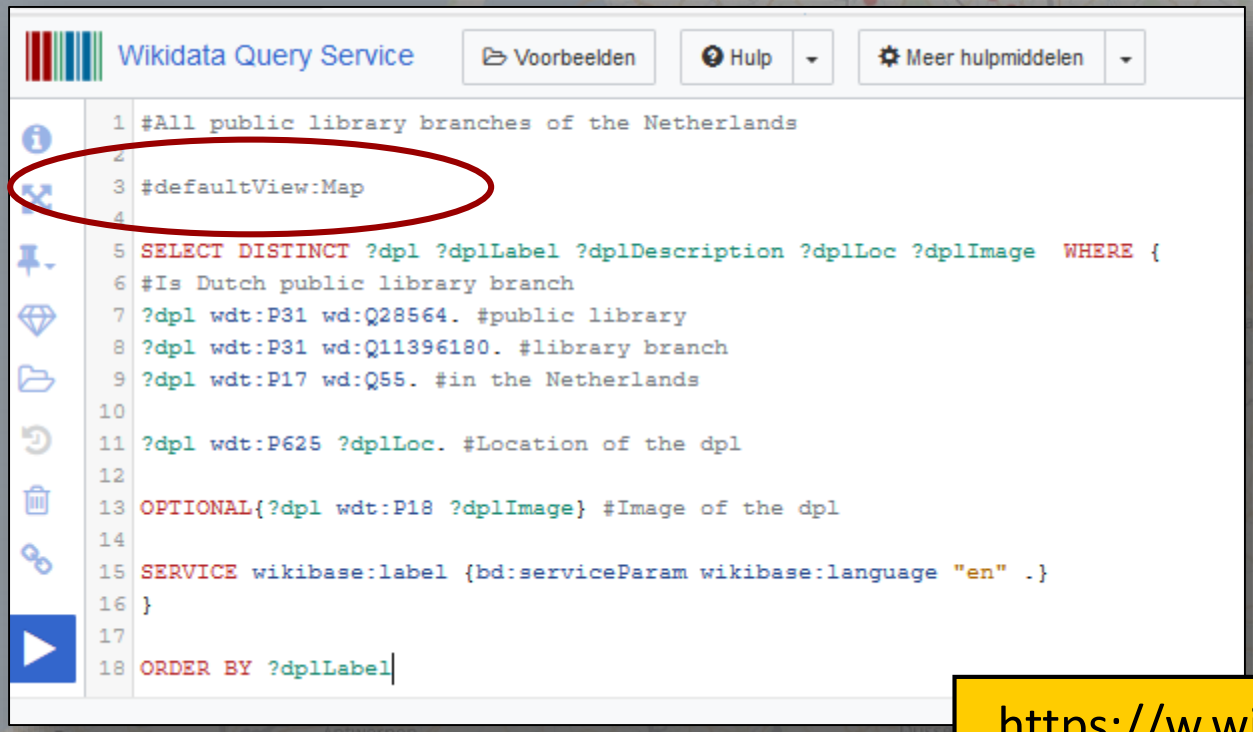


dpl	dplLabel	dplDescription	dplLoc	dplIma
wd:Q61785962	's-Heerenberg public library	Public library in s-Heerenberg, municipality of Montferland, The Netherlands	Point(6.2454886 51.8731333)	comm
wd:Q63677419	't Harde public library service point	Public library in the village of 't Harde, The Netherlands	Point(5.877917 52.4172699)	
wd:Q61915721	Aalsmeer public library	Public library in Aalsmeer, The Netherlands	Point(4.7496987 52.2679063)	
wd:Q59772713	Aalst public library	Public library in Aalst, The Netherlands	Point(5.1259789 51.7841643)	
wd:Q60499424	Abbekerk public library	Public library in Abbekerk, municipality of Medemblik, The Netherlands	Point(5.0160659 52.7313345)	
wd:Q63385185	Achterveld public library	Public library in the village of Achterveld, municipality of Leusden, The Netherlands	Point(5.4973655 52.1365067)	
wd:Q60020855	Aduard public library	Public library in Aduard, province of Groningen, The Netherlands	Point(6.4570135 53.2599615)	
wd:Q63890044	Akersloot public library	Public library in Akersloot, The Netherlands	Point(4.7322704 52.5633782)	comm (518264
wd:Q59871315	Alblasserdam public library	Public library in Alblasserdam, The Netherlands	Point(4.65723 51.86473)	
wd:Q63890048	Alkmaar De Mare public library	Public library in Alkmaar De Mare, The Netherlands	Point(4.7588585 52.6535348)	
wd:Q63890041	Alkmaar Oudorp public library	Public library in the Oudorp neighbourhood in the city of Alkmaar , The Netherlands	Point(4.7657342 52.6340305)	


Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
583 resultaten in 512 ms
Table
Image grid
Map
Line chart
Bar chart
Scatter chart
Area chart
Bubble chart
Tree map
Tree
Timeline
Dimensions
Graph
dplDescription
dplLoc
wd:Q60020855
Aduard public library
Public library in Aduard, province of Groningen, The Netherlands
Point(6.4570135 53.2599615)
wd:Q63890044
Akersloot public library
Public library in Akersloot, The Netherlands
Point(4.7322704 52.5633782)
wd:Q59871315
Alblasserdam public library
Public library in Alblasserdam, The Netherlands
Point(4.65723 51.86473)
wd:Q63890048
Alkmaar De Mare public library
Public library in Alkmaar De Mare, The Netherlands
Point(4.7588585 52.6535348)
Alkmaar Oudorp public library
Public library in the Oudorp neighbourhood in the city of Alkmaar , The
Point(4.7657342


Bremerhaven
Oldenburg
Bremen
Leeuwarden
Groningen
Assen
Emmen
Nederland
Osnabrück
Deventer
Apeldoorn
Enschede
Amersfoort
Ede
Arnhem
Bielefeld
Münster
Dordrecht
's-Hertogenbosch
Paderborn
Hamm
Recklinghausen
Middelburg
Gelsenkirchen
Essen
Dortmund
Moers
Eindhoven
Venlo
Krefeld
Hagen
Wuppertal
Brugge
Antwerpen
Düsseldorf
Solingen
Roermond
Dunkerque
Gent
Leverkusen
Calais
Köln
Bruxelles - Leuven
Brussel
Aachen
Siegen
België -
Belgique -
Belgien
Bonn
Lille
Liège
Namur
Mons
Charleroi
Koblenz

Default map view



https://w.wiki/6eq

Popup

Point(5.2206 52.3712)
Main visitor location and administration offices of De nieuwe bibliotheek, the organisation for the public libraries in the municipality of Almere, The Netherlands
Almere Stad public library

Relation between query and popup

Point(5.2206 52.3712)
Main visitor location and administration offices of De nieuwe bibliotheek, the organisation for the public libraries in the municipality of Almere, The Netherlands
Almere Stad public library

Wikidata Query Service

Voorbeelden | Hulp | Meer hulpmiddelen

```
#All public library branches of the Netherlands

#defaultView:Map

SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage  WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

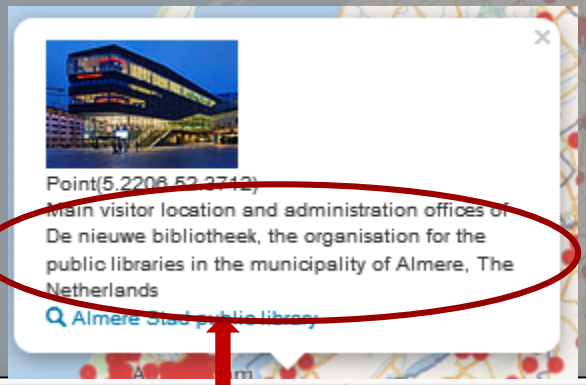
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl

SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}

ORDER BY ?dplLabel
```

https://w.wiki/6eq

Relation between query and popup



Wikidata Query Service | Voorbeelden | Hulp | Meer hulpmiddelen

```
#All public library branches of the Netherlands

#defaultView:Map

SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage  WHERE {
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?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

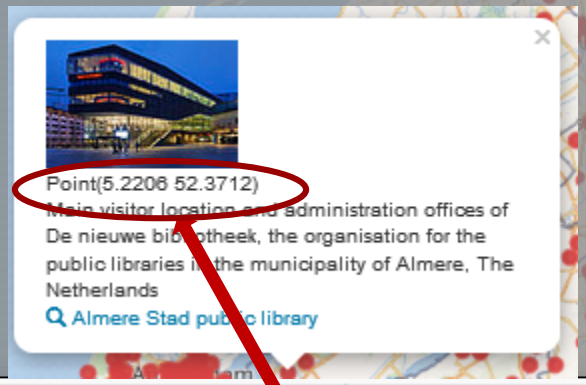
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl

SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}

ORDER BY ?dplLabel
```

https://w.wiki/6eq

Relation between query and popup



Wikidata Query Service

Voorbeelden | Help | Meer hulpmiddelen

```
#All public library branches of the Netherland

#defaultView:Map

SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage  WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

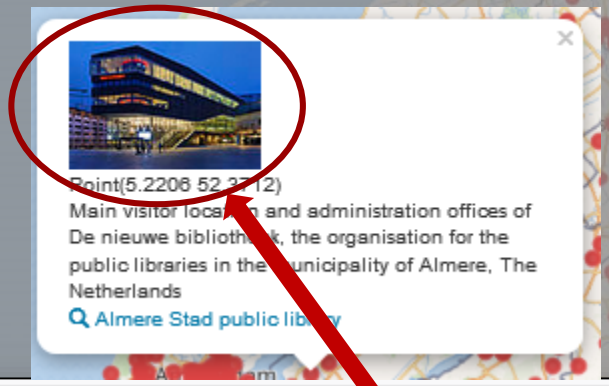
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl

SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}

ORDER BY ?dplLabel
```

https://w.wiki/6eq

Relation between query and popup



Wikidata Query Service

Voorbeelden | Hulp | Meer hulpmiddelen

```
#All public library branches of the Netherlands

#defaultView:Map

SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl

SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}

ORDER BY ?dplLabel
```

https://w.wiki/6eq

Hiding fields from popup

Hide image and coordinates

Point(5.2206 52.3712)
Main visitor location and administration offices of De nieuwe bibliotheek, the organisation for the public libraries in the municipality of Almere, The Netherlands
Almere Stad public library

Wikidata Query Service | Voorbeelden | Hulp | Meer hulpmiddelen

```
#All public library branches of the Netherlands

#defaultView:Map

SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage  WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl

SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}

ORDER BY ?dplLabel
```

Hiding fields from popup

Point(5.2206 52.3712)
Main visitor location and administration offices of De nieuwe bibliotheek, the organisation for the public libraries in the municipality of Almere, The Netherlands
Almere Stad public library

Wikidata Query Service | Voorbeelden | Hulp | Meer hulpmiddelen

```
#All public library branches of the Netherlands

#defaultView:Map{"hide":["?dplLoc", "?dplImage"]}

SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage  WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

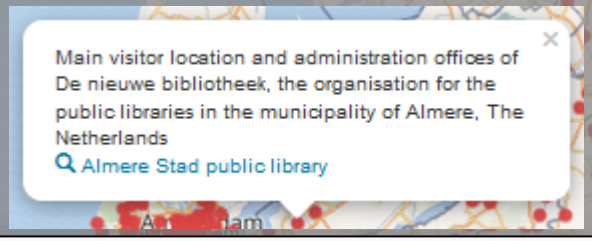
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl

SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}

ORDER BY ?dplLabel
```

https://w.wiki/6mU

Hiding fields from popup



Wikidata Query Service | Voorbeelden | Hulp | Meer hulpmiddelen

```
#All public library branches of the Netherlands

#defaultView:Map{"hide":["?dplLoc", "?dplImage"]}

SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage  WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

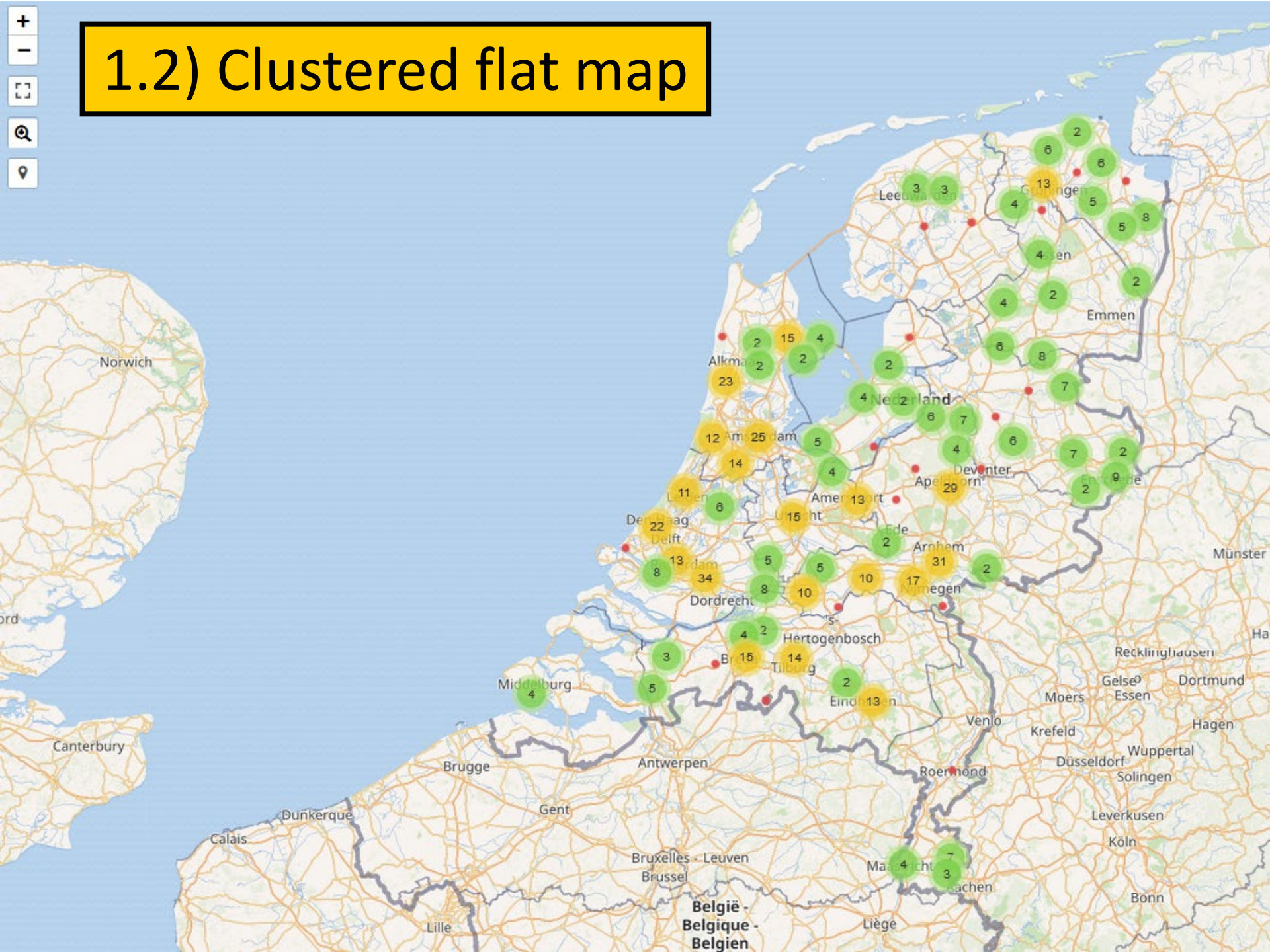
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl

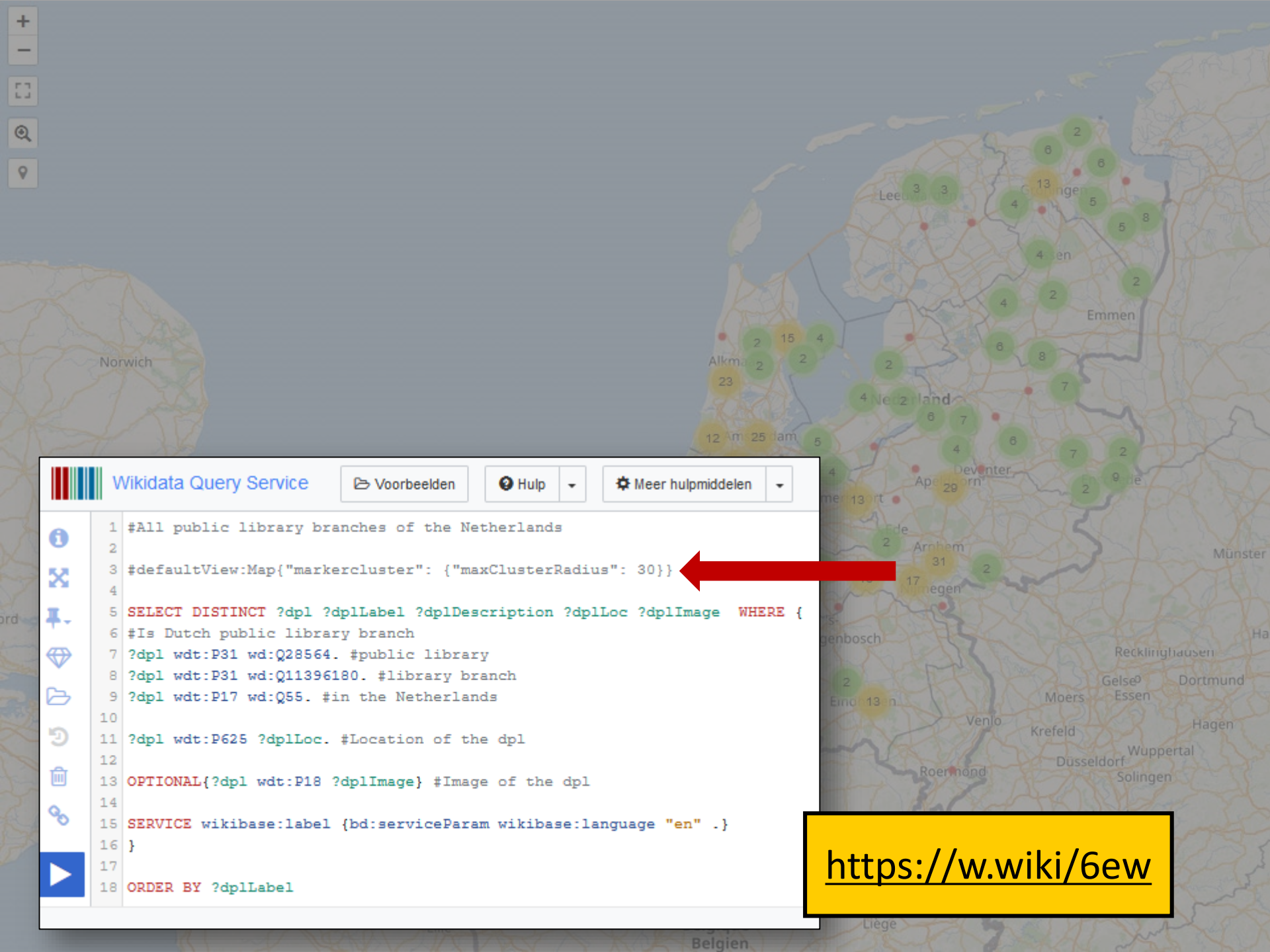
SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}

ORDER BY ?dplLabel
```

https://w.wiki/6mU

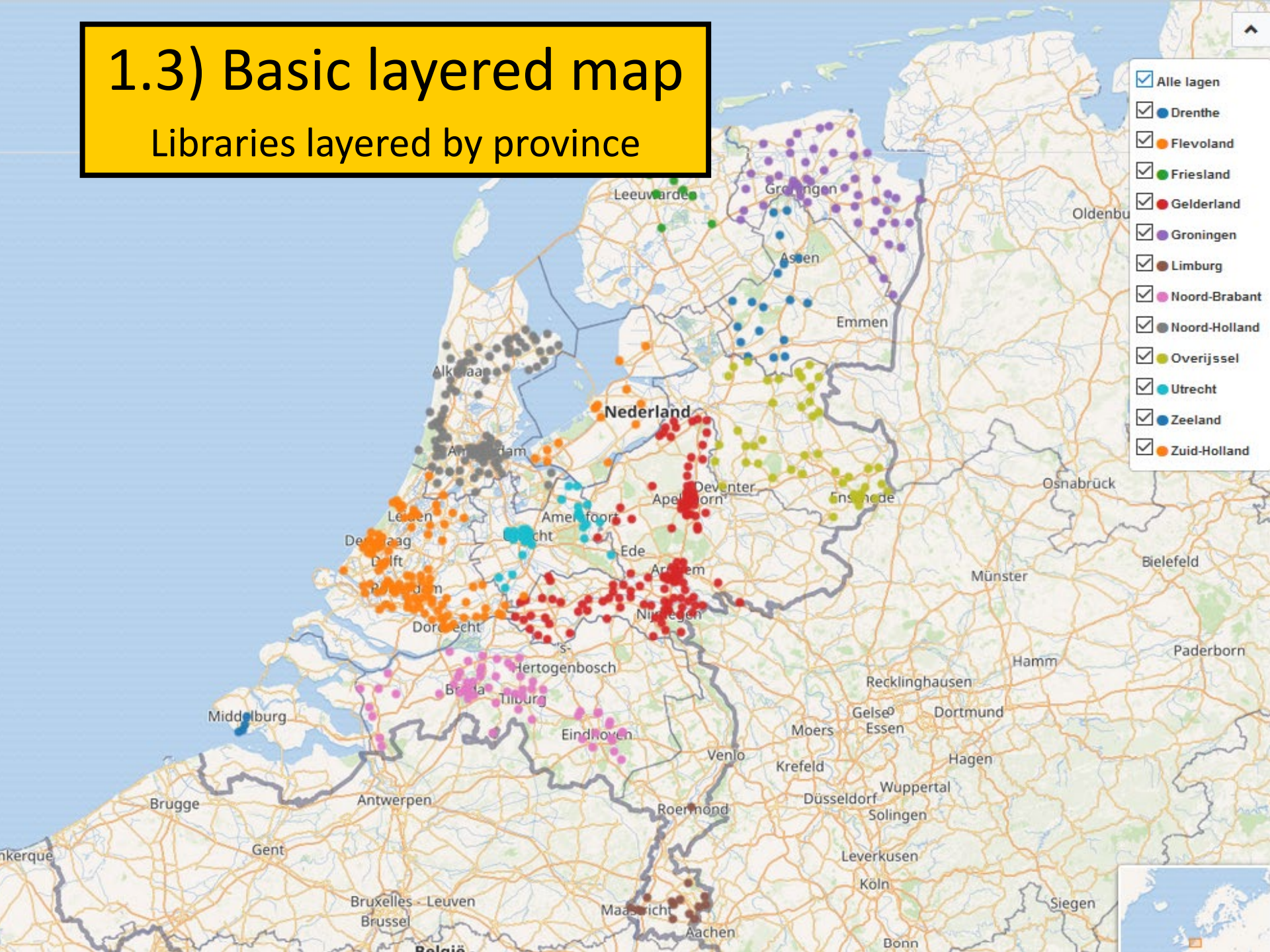
1.2) Clustered flat map

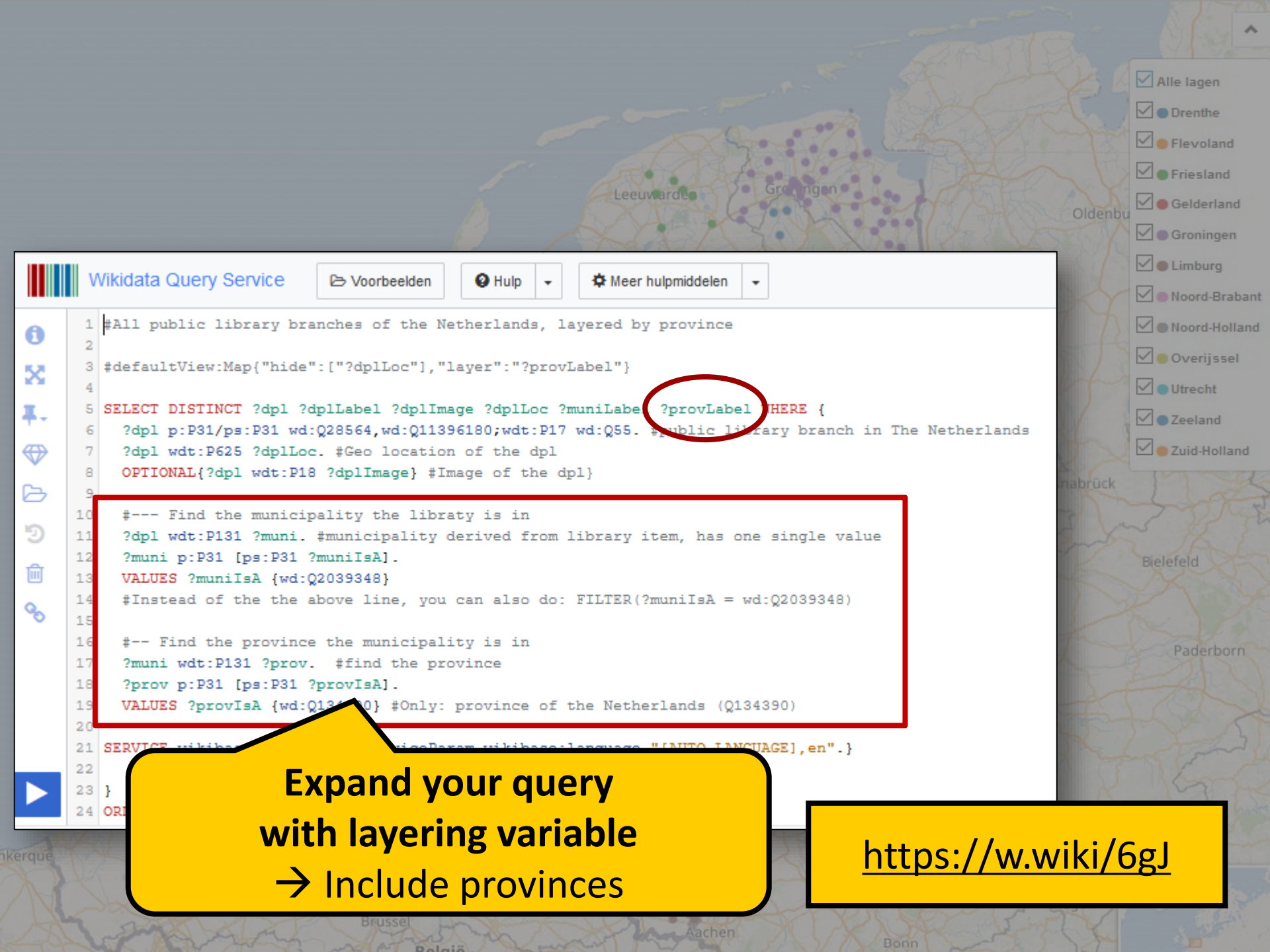



Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
#All public library branches of the Netherlands
#defaultView:Map{"markercluster": {"maxClusterRadius": 30}}
SELECT DISTINCT ?dpl ?dplLabel ?dplDescription ?dplLoc ?dplImage WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands
?dpl wdt:P625 ?dplLoc. #Location of the dpl
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl
SERVICE wikibase:label {bd:serviceParam wikibase:language "en" .}
}
ORDER BY ?dplLabel
https://w.wiki/6ew

1.3) Basic layered map

Libraries layered by province





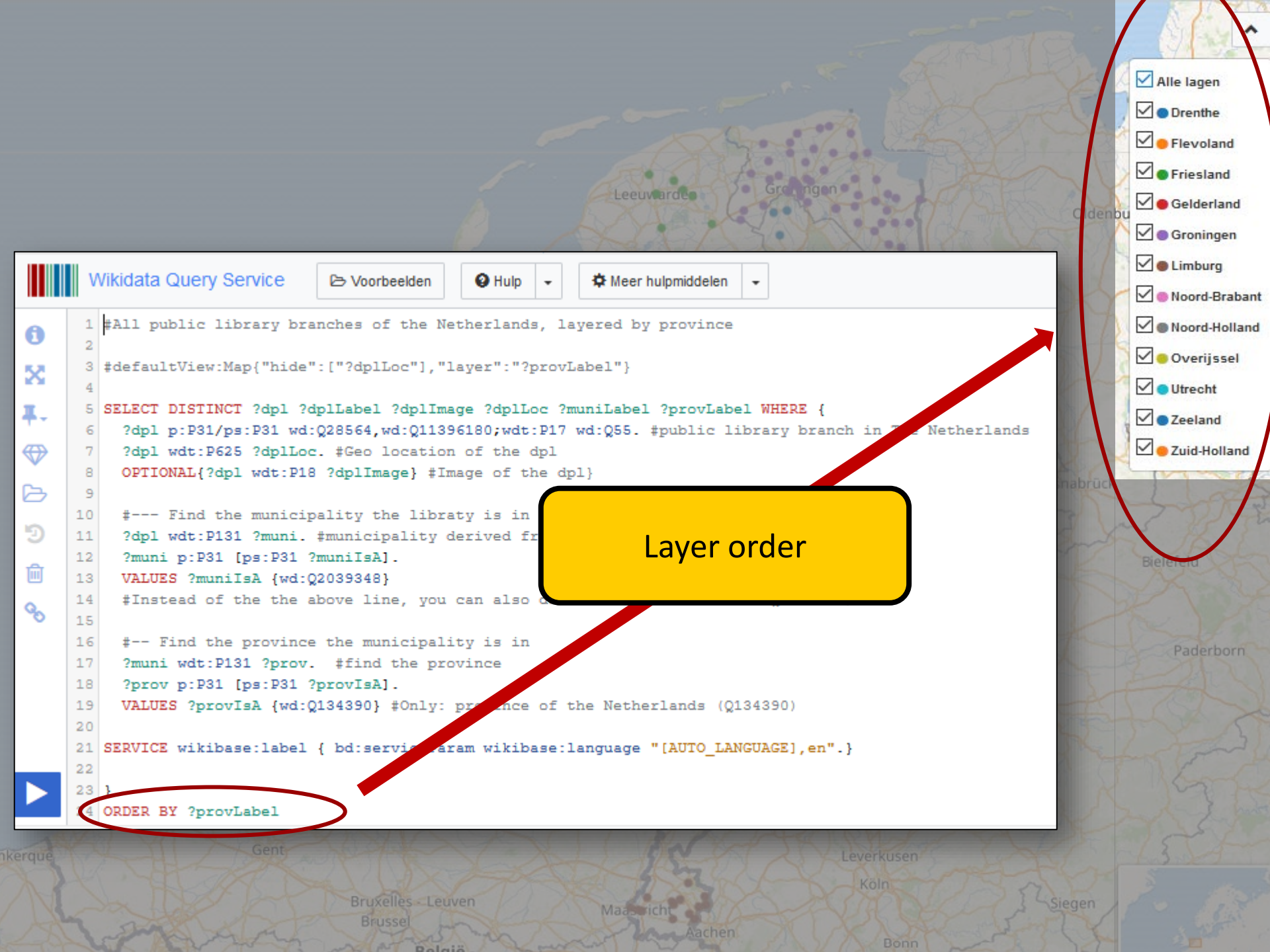
Expand your query with layering variable

→ Include provinces

https://w.wiki/6gJ

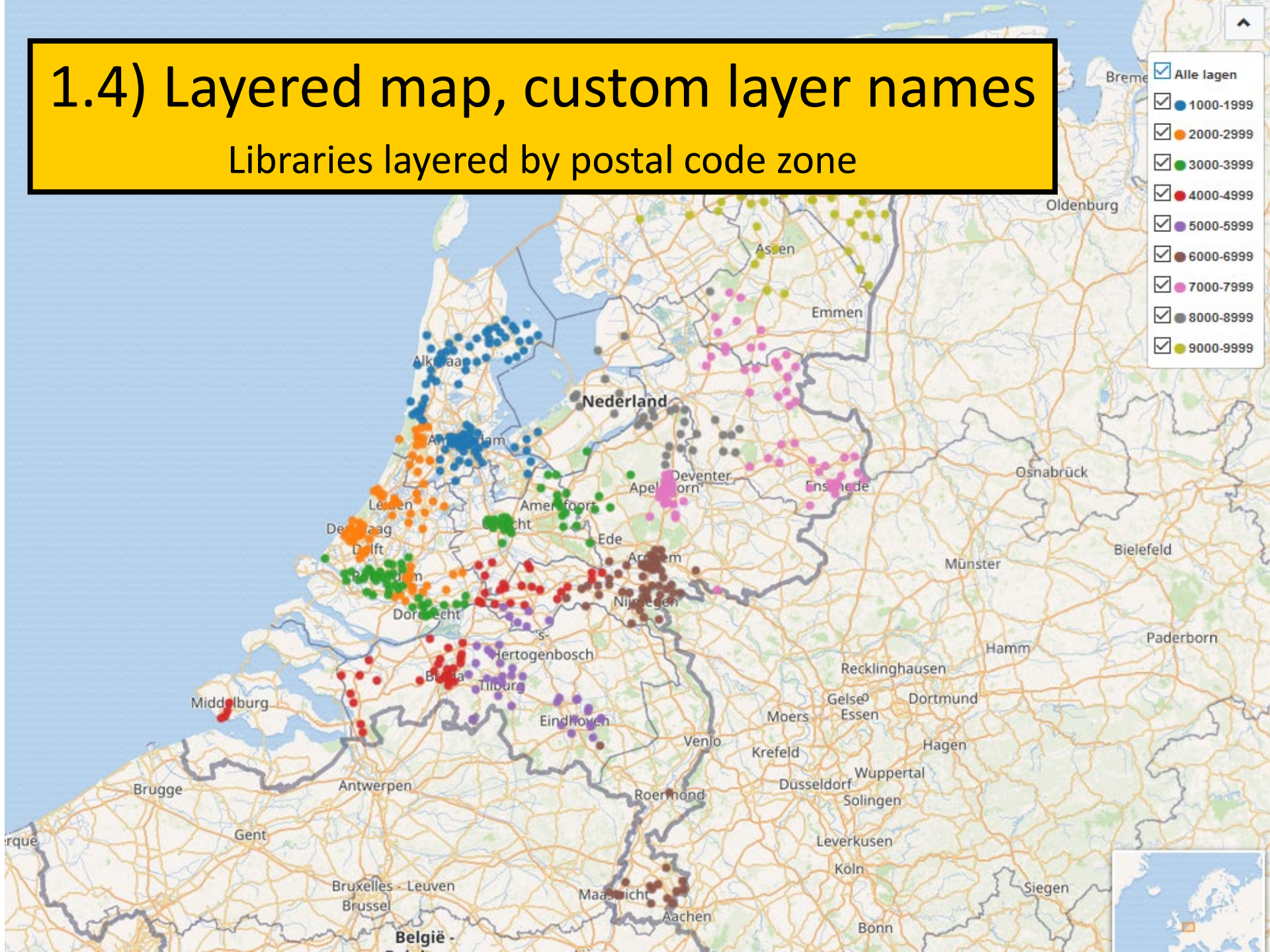
Time to
expand your query
sapling

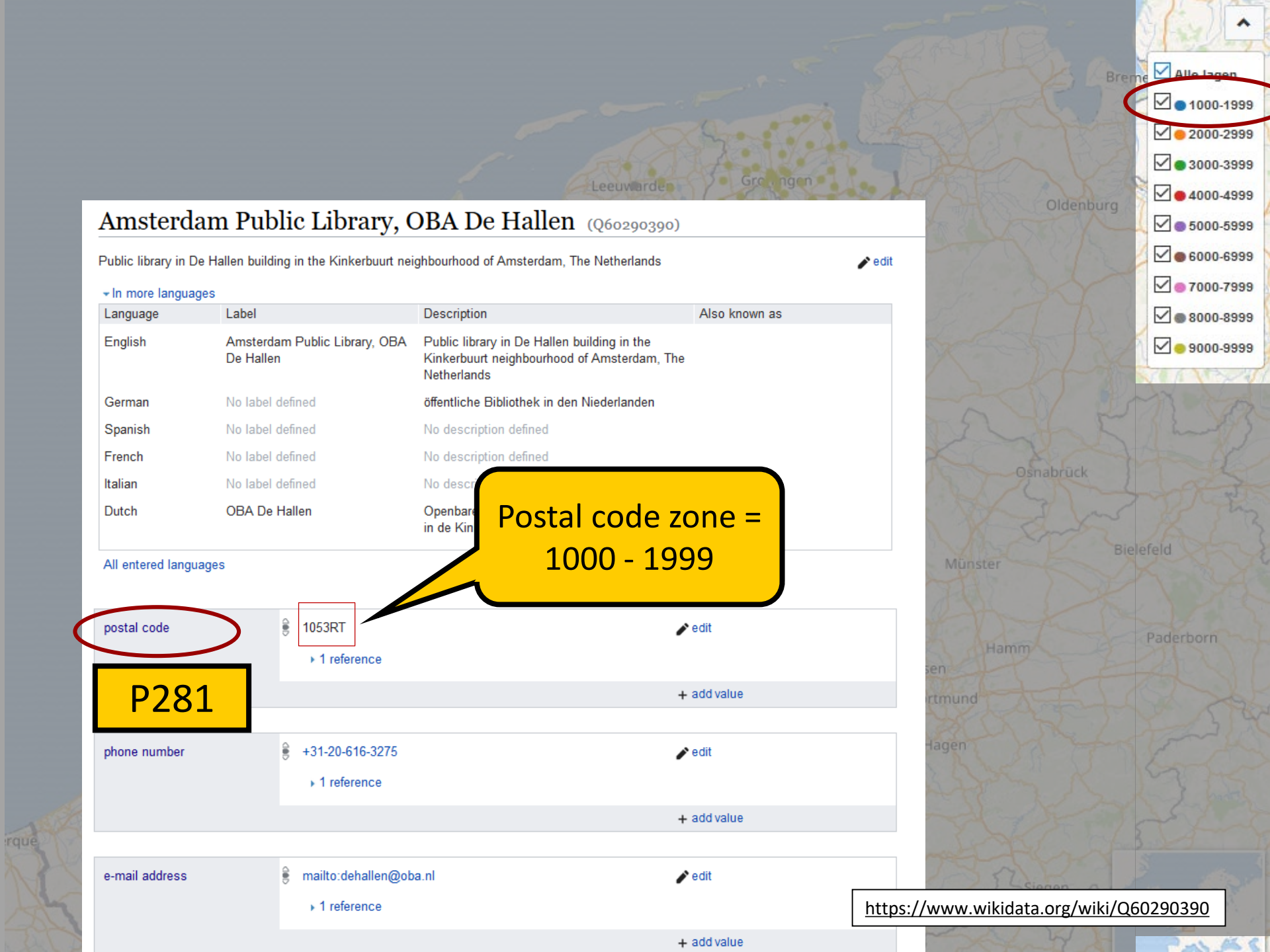
Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
#All public library branches of the Netherlands, layered by province
#defaultView:Map{"hide":["?dplLoc"],"layer":"?provLabel"}
SELECT DISTINCT ?dpl ?dplLabel ?dplImage ?dplLoc ?muniLabel ?provLabel WHERE {
?dpl p:P31/ps:P31 wd:Q28564,wd:Q11396180;wdt:P17 wd:Q55. #public library branch in The Netherlands
?dpl wdt:P625 ?dplLoc. #Geo location of the dpl
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl}
#--- Find the municipality the libraty is in
?dpl wdt:P131 ?muni. #municipality derived from library item, has one sing
?muni p:P31 [ps:P31 ?muniIsA].
VALUES ?muniIsA {wd:Q2039348}
#Instead of the the above line, you can also do: FILTER(?muniIsA = wd:Q203
#-- Find the province the municipality is in
?muni wdt:P131 ?prov. #find the province
?prov p:P31 [ps:P31 ?provIsA].
VALUES ?provIsA {wd:Q134390} #Only: province of the Netherlands (Q134390)
SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en".}
}
ORDER BY ?provLabel
Alle lagen
Drenthe
Flevoland
Friesland
Gelderland
Groningen
Limburg
Noord-Brabant
Noord-Holland
Overijssel
Utrecht
Zeeland
Zuid-Holland
Non-custom layer names
= labels from WD-items
https://w.wiki/6gJ

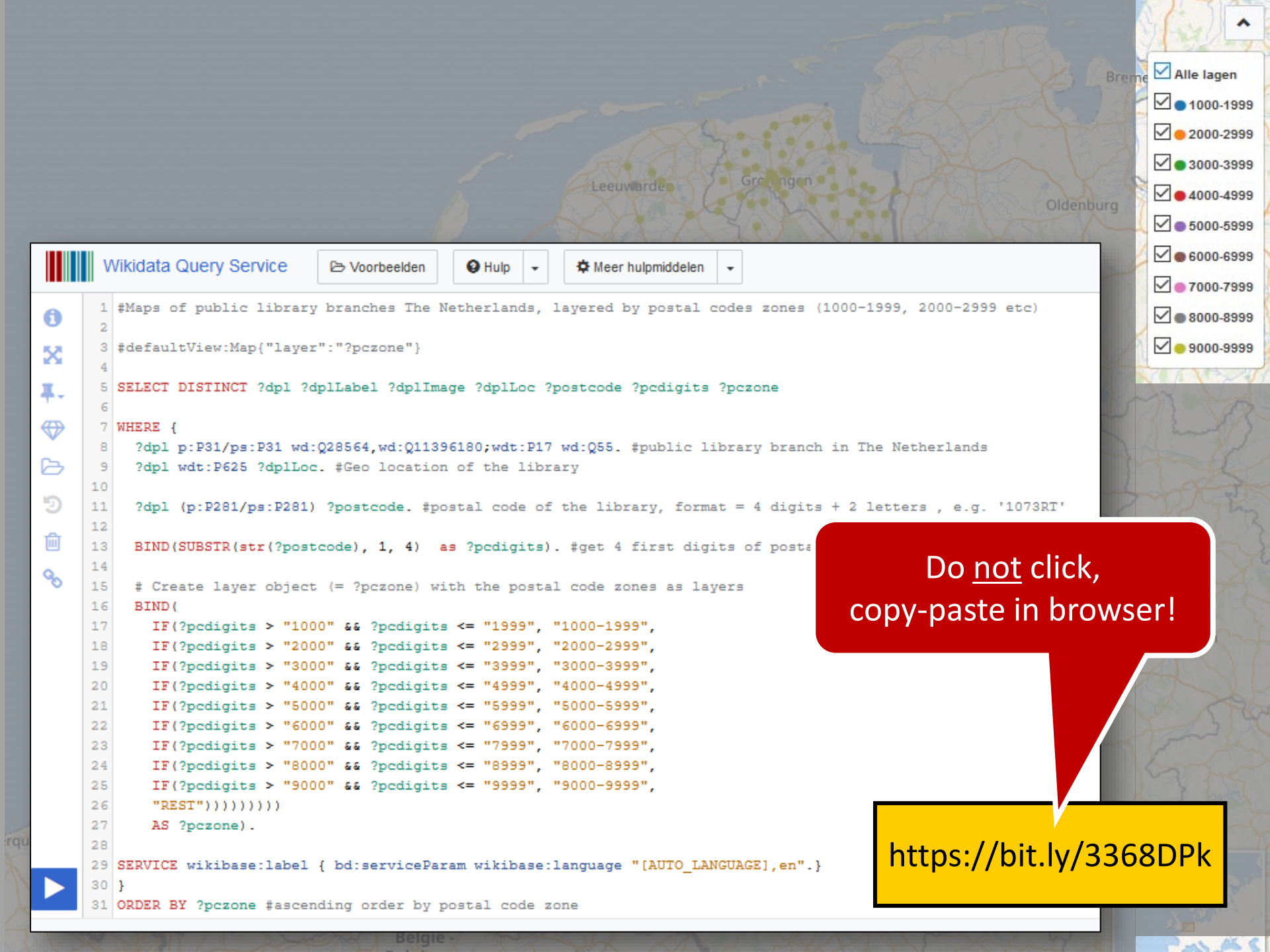

Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
#All public library branches of the Netherlands, layered by province
#defaultView:Map{"hide":["?dplLoc"],"layer":"?provLabel"}
SELECT DISTINCT ?dpl ?dplLabel ?dplImage ?dplLoc ?muniLabel ?provLabel WHERE {
?dpl p:P31/ps:P31 wd:Q28564,wd:Q11396180;wdt:P17 wd:Q55. #public library branch in the Netherlands
?dpl wdt:P625 ?dplLoc. #Geo location of the dpl
OPTIONAL{?dpl wdt:P18 ?dplImage} #Image of the dpl}
#--- Find the municipality the libraty is in
?dpl wdt:P131 ?muni. #municipality derived fr
?muni p:P31 [ps:P31 ?muniIsA].
VALUES ?muniIsA {wd:Q2039348}
#Instead of the the above line, you can also
#-- Find the province the municipality is in
?muni wdt:P131 ?prov. #find the province
?prov p:P31 [ps:P31 ?provIsA].
VALUES ?provIsA {wd:Q134390} #Only: pr nce of the Netherlands (Q134390)
SERVICE wikibase:label { bd:servi aram wikibase:language "[AUTO_LANGUAGE],en".}
}
ORDER BY ?provLabel
Layer order
Alle lagen
Drenthe
Flevoland
Friesland
Gelderland
Groningen
Limburg
Noord-Brabant
Noord-Holland
Overijssel
Utrecht
Zeeland
Zuid-Holland
Leeuwarden
Groningen
Paderborn
Gent
Bruxelles - Brussel
Leuven
Maastricht
Aachen
Leverkusen
Koln
Siegen
Bonn

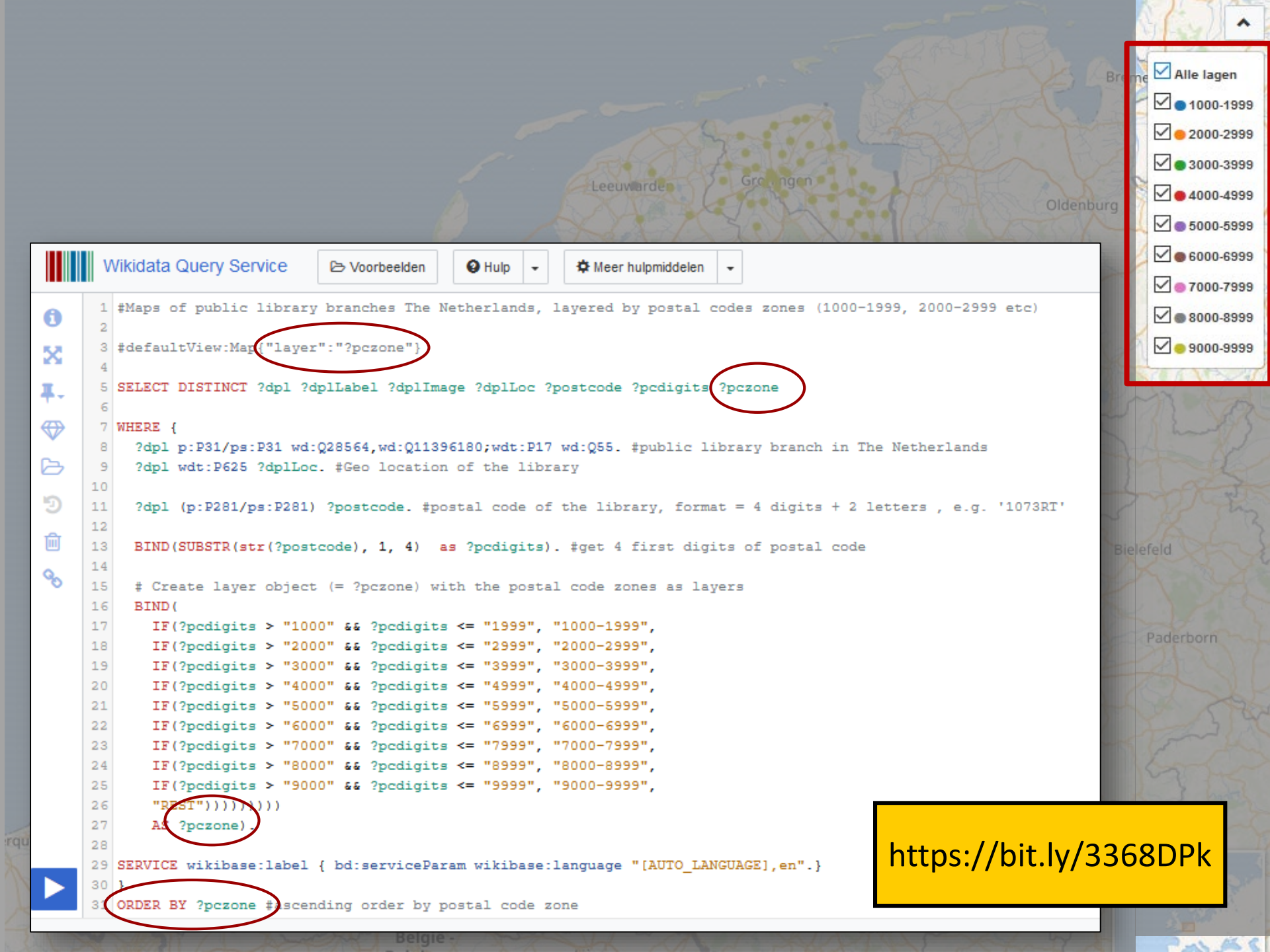
1.4) Layered map, custom layer names

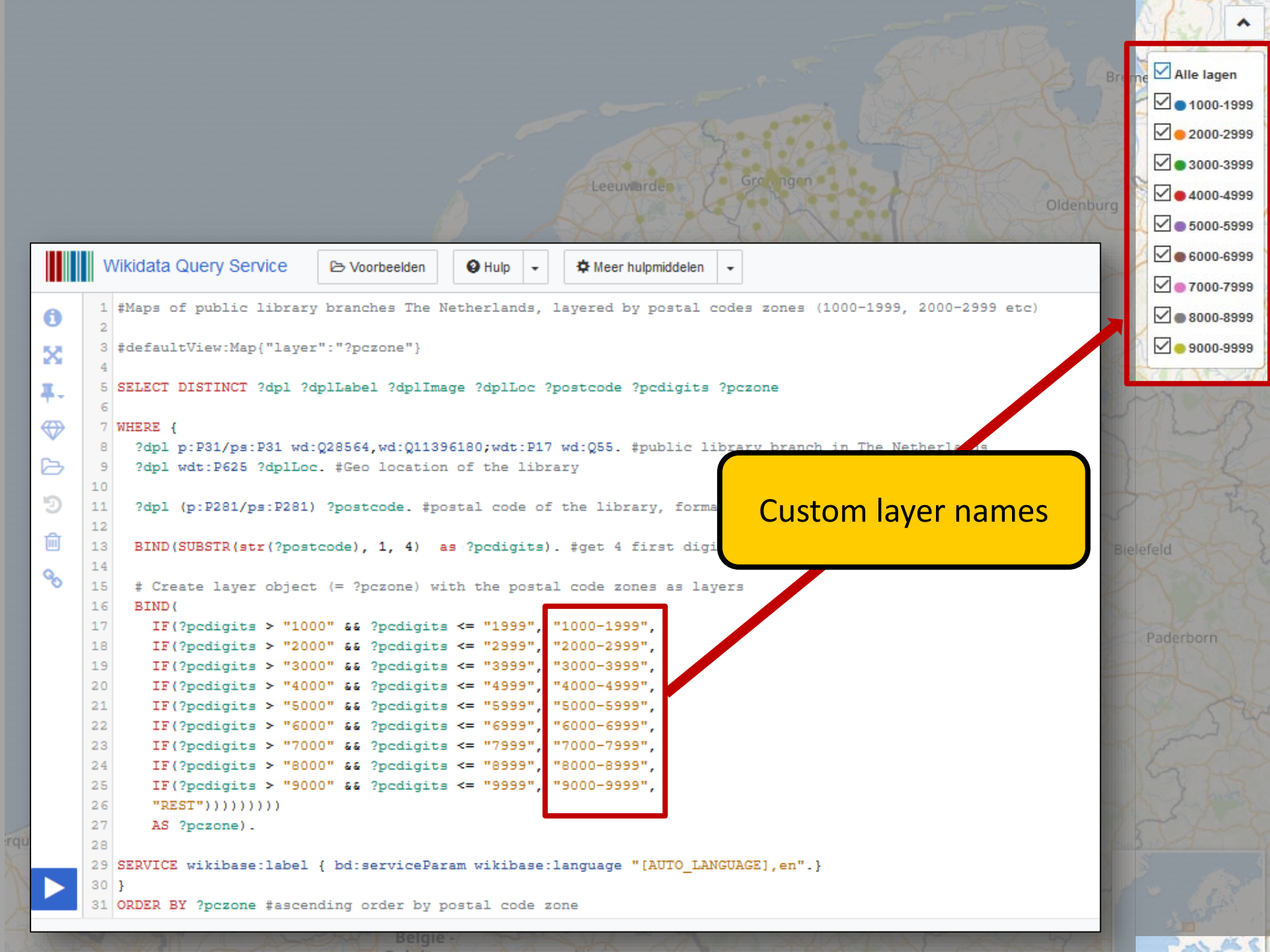
Libraries layered by postal code zone



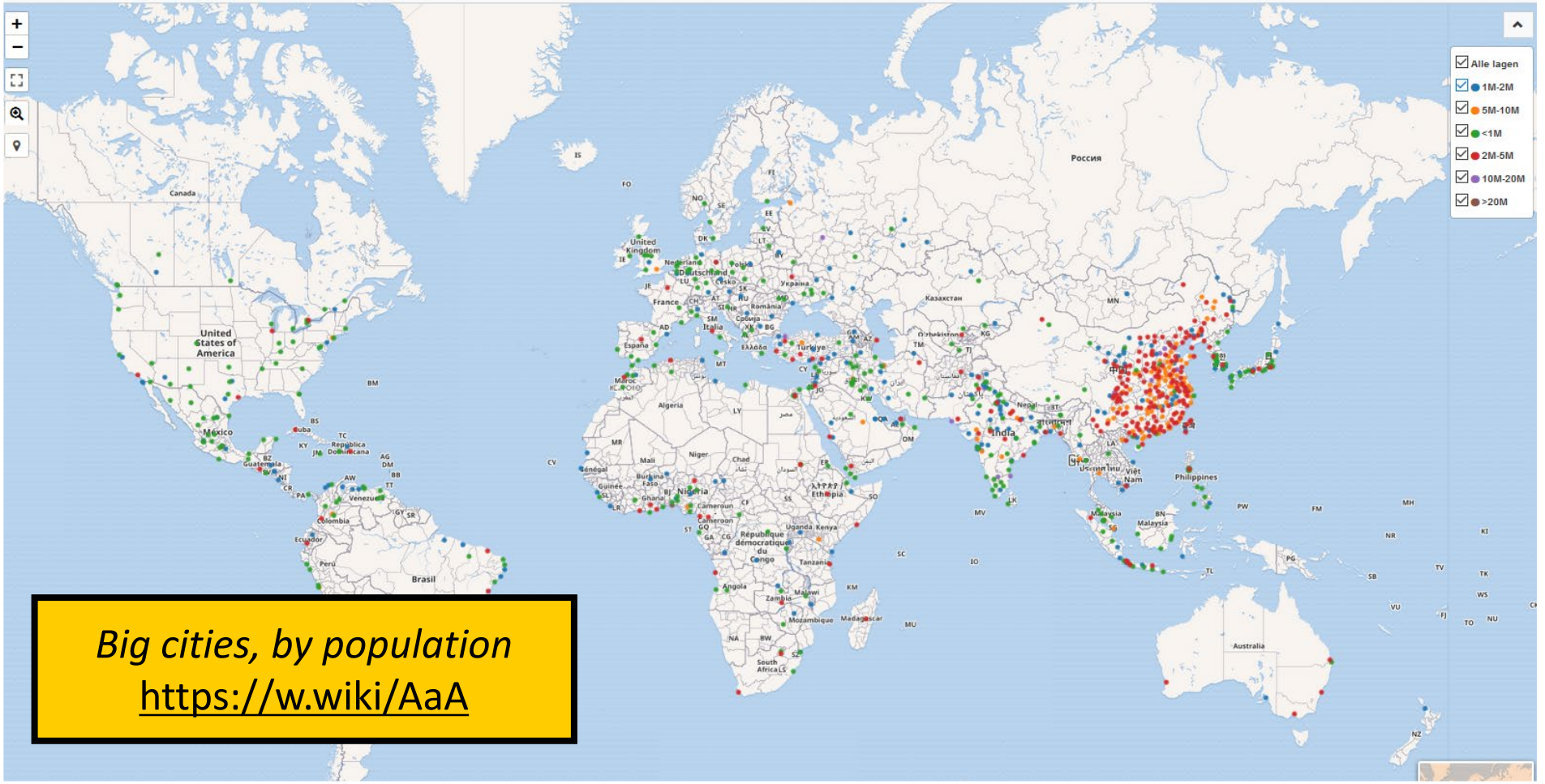

Alle lagen
1000-1999
2000-2999
3000-3999
4000-4999
5000-5999
6000-6999
7000-7999
8000-8999
9000-9999
Amsterdam Public Library, OBA De Hallen (Q60290390)
Public library in De Hallen building in the Kinkerbuurt neighbourhood of Amsterdam, The Netherlands
edit
In more languages
Language
Label
Description
Also known as
English
Amsterdam Public Library, OBA De Hallen
Public library in De Hallen building in the Kinkerbuurt neighbourhood of Amsterdam, The Netherlands
German
No label defined
öffentliche Bibliothek in den Niederlanden
Spanish
No label defined
No description defined
French
No label defined
No description defined
Italian
No label defined
Dutch
OBA De Hallen
All entered languages
Postal code zone = 1000 - 1999
postal code
1053RT
edit
1 reference
add value
P281
phone number
+31-20-616-3275
edit
1 reference
add value
e-mail address
mailto:dehallen@oba.nl
edit
1 reference
add value
https://www.wikidata.org/wiki/Q60290390


Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
#Maps of public library branches The Netherlands, layered by postal codes zones (1000-1999, 2000-2999 etc)
#defaultView:Map{"layer":"?pczone"}
SELECT DISTINCT ?dpl ?dplLabel ?dplImage ?dplLoc ?postcode ?pcdigits ?pczone
WHERE {
?dpl p:P31/ps:P31 wd:Q28564,wd:Q11396180;wdt:P17 wd:Q55. #public library branch in The Netherlands
?dpl wdt:P625 ?dplLoc. #Geo location of the library
?dpl (p:P281/ps:P281) ?postcode. #postal code of the library, format = 4 digits + 2 letters , e.g. '1073RT'
BIND(SUBSTR(str(?postcode), 1, 4) as ?pcdigits). #get 4 first digits of posta
Create layer object (= ?pczone) with the postal code zones as layers
BIND(
IF(?pcdigits > "1000" && ?pcdigits <= "1999", "1000-1999",
IF(?pcdigits > "2000" && ?pcdigits <= "2999", "2000-2999",
IF(?pcdigits > "3000" && ?pcdigits <= "3999", "3000-3999",
IF(?pcdigits > "4000" && ?pcdigits <= "4999", "4000-4999",
IF(?pcdigits > "5000" && ?pcdigits <= "5999", "5000-5999",
IF(?pcdigits > "6000" && ?pcdigits <= "6999", "6000-6999",
IF(?pcdigits > "7000" && ?pcdigits <= "7999", "7000-7999",
IF(?pcdigits > "8000" && ?pcdigits <= "8999", "8000-8999",
IF(?pcdigits > "9000" && ?pcdigits <= "9999", "9000-9999",
"REST"))))))))))
AS ?pczone).
SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en".}
}
ORDER BY ?pczone #ascending order by postal code zone
Alle lagen
1000-1999
2000-2999
3000-3999
4000-4999
5000-5999
6000-6999
7000-7999
8000-8999
9000-9999
Do not click,
copy-paste in browser!
https://bit.ly/3368DPk


Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
#Maps of public library branches The Netherlands, layered by postal codes zones (1000-1999, 2000-2999 etc)
#defaultView:Map{"layer":"?pczone"}
SELECT DISTINCT ?dpl ?dplLabel ?dplImage ?dplLoc ?postcode ?pcdigits ?pczone
WHERE {
?dpl p:P31/ps:P31 wd:Q28564,wd:Q11396180;wdt:P17 wd:Q55. #public library branch in The Netherlands
?dpl wdt:P625 ?dplLoc. #Geo location of the library
?dpl (p:P281/ps:P281) ?postcode. #postal code of the library, format = 4 digits + 2 letters , e.g. '1073RT'
BIND(SUBSTR(str(?postcode), 1, 4) as ?pcdigits). #get 4 first digits of postal code
Create layer object (= ?pczone) with the postal code zones as layers
BIND(
IF(?pcdigits > "1000" && ?pcdigits <= "1999", "1000-1999",
IF(?pcdigits > "2000" && ?pcdigits <= "2999", "2000-2999",
IF(?pcdigits > "3000" && ?pcdigits <= "3999", "3000-3999",
IF(?pcdigits > "4000" && ?pcdigits <= "4999", "4000-4999",
IF(?pcdigits > "5000" && ?pcdigits <= "5999", "5000-5999",
IF(?pcdigits > "6000" && ?pcdigits <= "6999", "6000-6999",
IF(?pcdigits > "7000" && ?pcdigits <= "7999", "7000-7999",
IF(?pcdigits > "8000" && ?pcdigits <= "8999", "8000-8999",
IF(?pcdigits > "9000" && ?pcdigits <= "9999", "9000-9999",
"REST")))))))))
AS ?pczone).
SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en".}
}
ORDER BY ?pczone #ascending order by postal code zone
Alle lagen
1000-1999
2000-2999
3000-3999
4000-4999
5000-5999
6000-6999
7000-7999
8000-8999
9000-9999
Leeuwarden
Oldenburg
Bielefeld
Paderborn
België
https://bit.ly/3368DPk

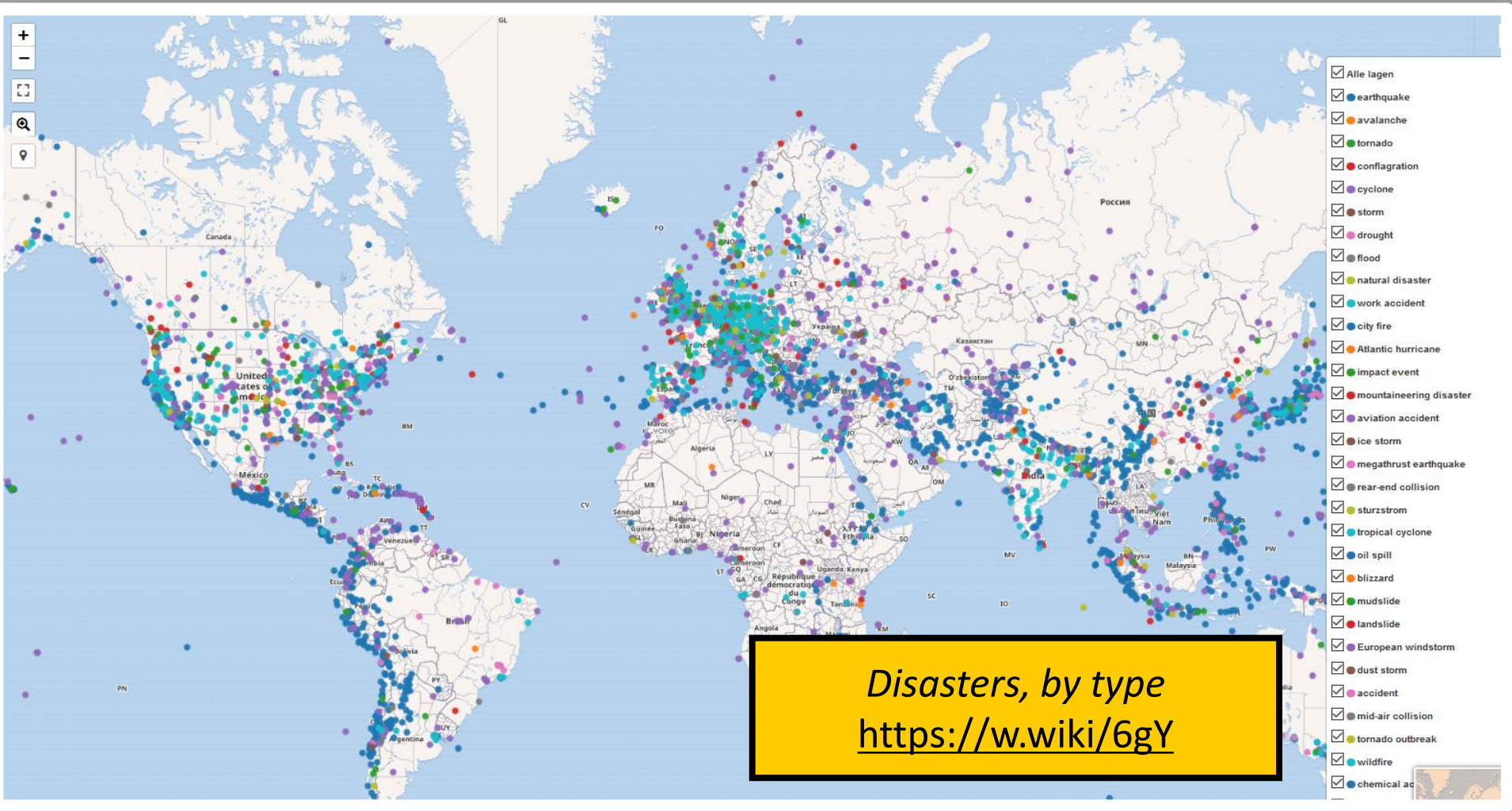

Wikidata Query Service
Voorbeelden
Hulp
Meer hulpmiddelen
#Maps of public library branches The Netherlands, layered by postal codes zones (1000-1999, 2000-2999 etc)
#defaultView:Map{"layer":"?pczone"}
SELECT DISTINCT ?dpl ?dplLabel ?dplImage ?dplLoc ?postcode ?pcdigits ?pczone
WHERE {
?dpl p:P31/ps:P31 wd:Q28564,wd:Q11396180;wdt:P17 wd:Q55. #public library branch in The Netherlands
?dpl wdt:P625 ?dplLoc. #Geo location of the library
?dpl (p:P281/ps:P281) ?postcode. #postal code of the library, forma
BIND(SUBSTR(str(?postcode), 1, 4) as ?pcdigits). #get 4 first digi
Create layer object (= ?pczone) with the postal code zones as layers
BIND(
IF(?pcdigits > "1000" && ?pcdigits <= "1999", "1000-1999",
IF(?pcdigits > "2000" && ?pcdigits <= "2999", "2000-2999",
IF(?pcdigits > "3000" && ?pcdigits <= "3999", "3000-3999",
IF(?pcdigits > "4000" && ?pcdigits <= "4999", "4000-4999",
IF(?pcdigits > "5000" && ?pcdigits <= "5999", "5000-5999",
IF(?pcdigits > "6000" && ?pcdigits <= "6999", "6000-6999",
IF(?pcdigits > "7000" && ?pcdigits <= "7999", "7000-7999",
IF(?pcdigits > "8000" && ?pcdigits <= "8999", "8000-8999",
IF(?pcdigits > "9000" && ?pcdigits <= "9999", "9000-9999",
"REST")))))))))
AS ?pczone).
SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en".}
}
ORDER BY ?pczone #ascending order by postal code zone
Custom layer names
Alle lagen
1000-1999
2000-2999
3000-3999
4000-4999
5000-5999
6000-6999
7000-7999
8000-8999
9000-9999
Leeuwarden
Oldenburg
Bielefeld
Paderborn

1.5) Other cool layered maps

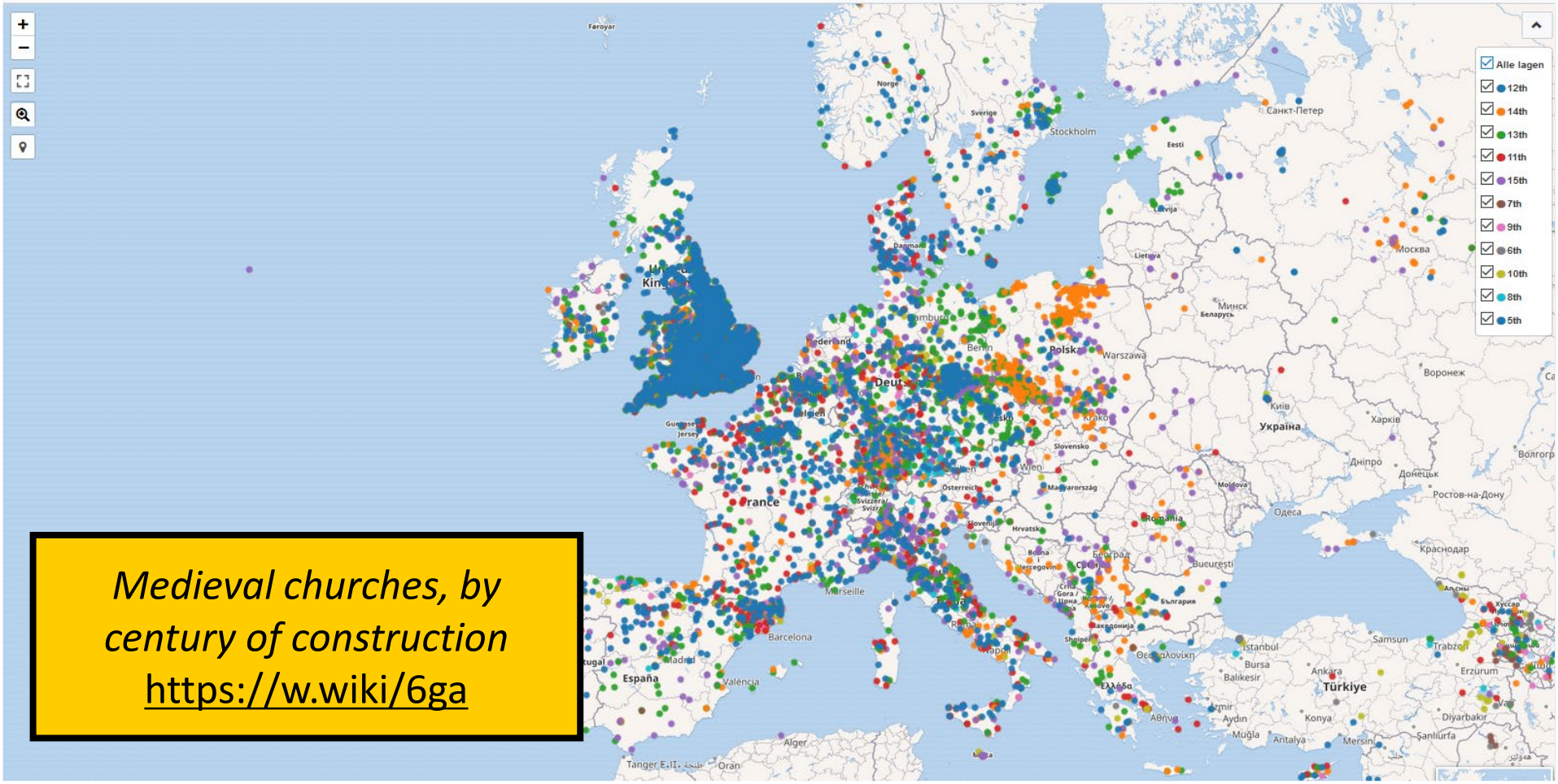


Big cities, by population
https://w.wiki/AaA

1.5) Other cool layered maps



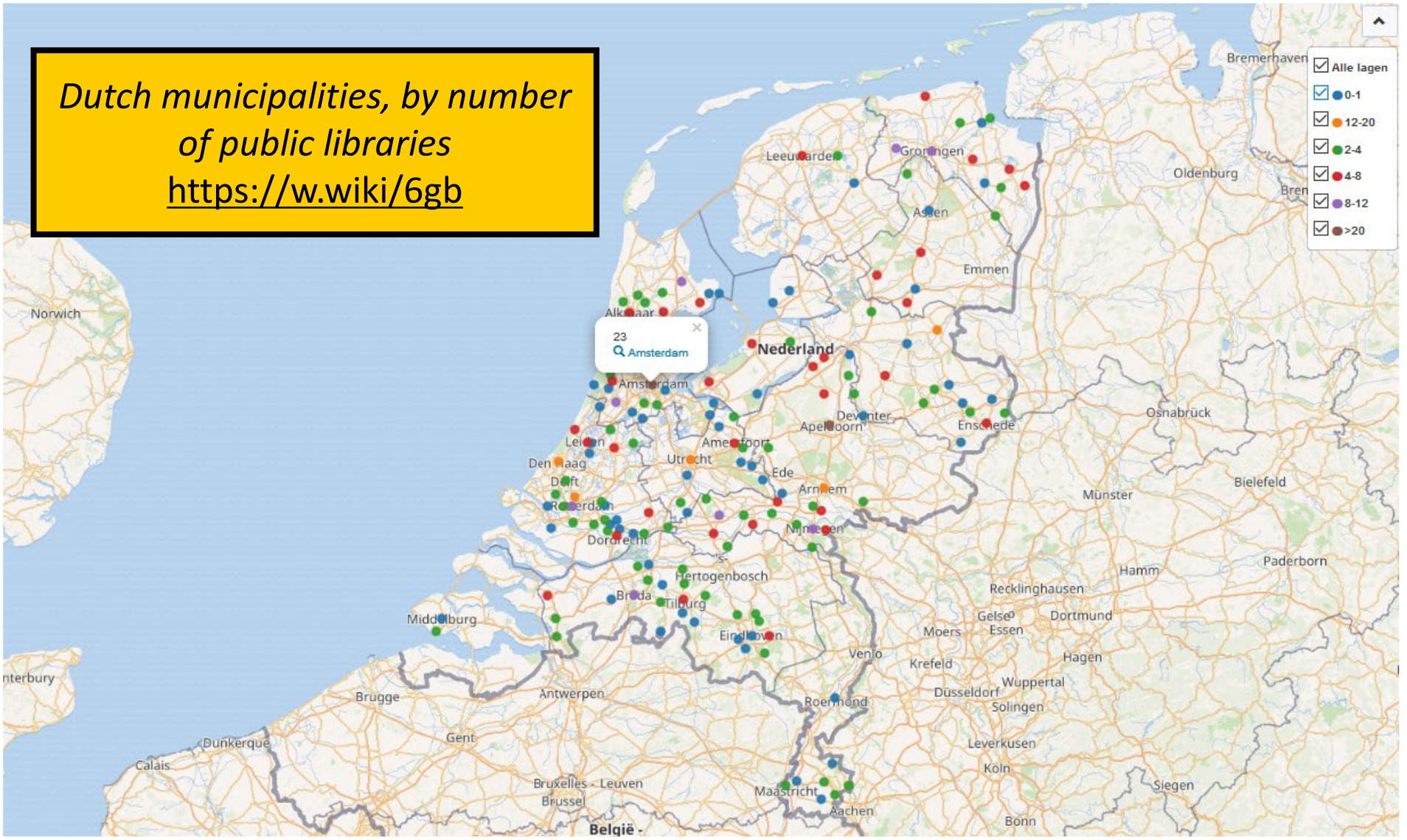
1.5) Other cool layered maps

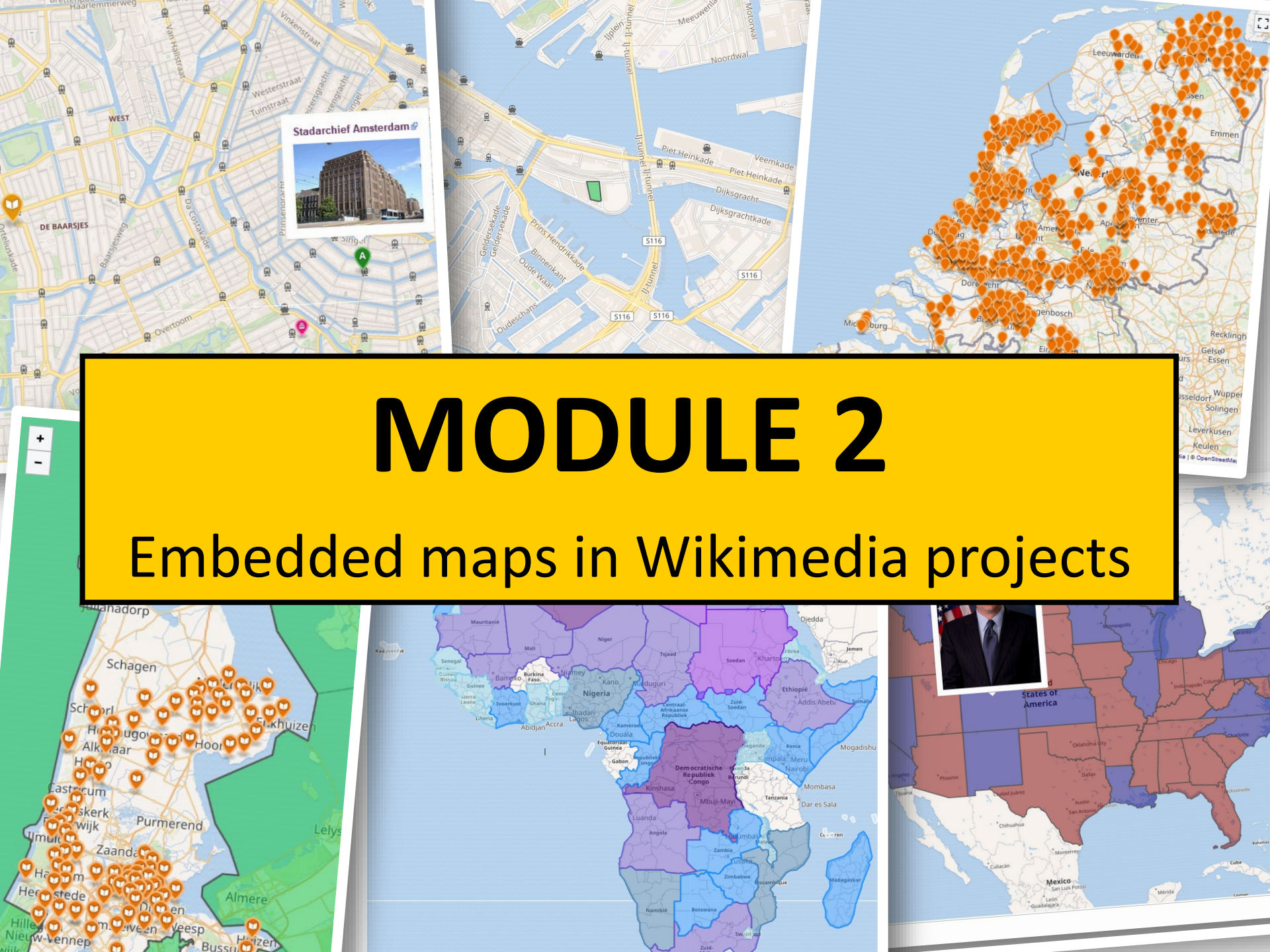


Medieval churches, by century of construction
https://w.wiki/6ga

1.5) Other cool layered maps

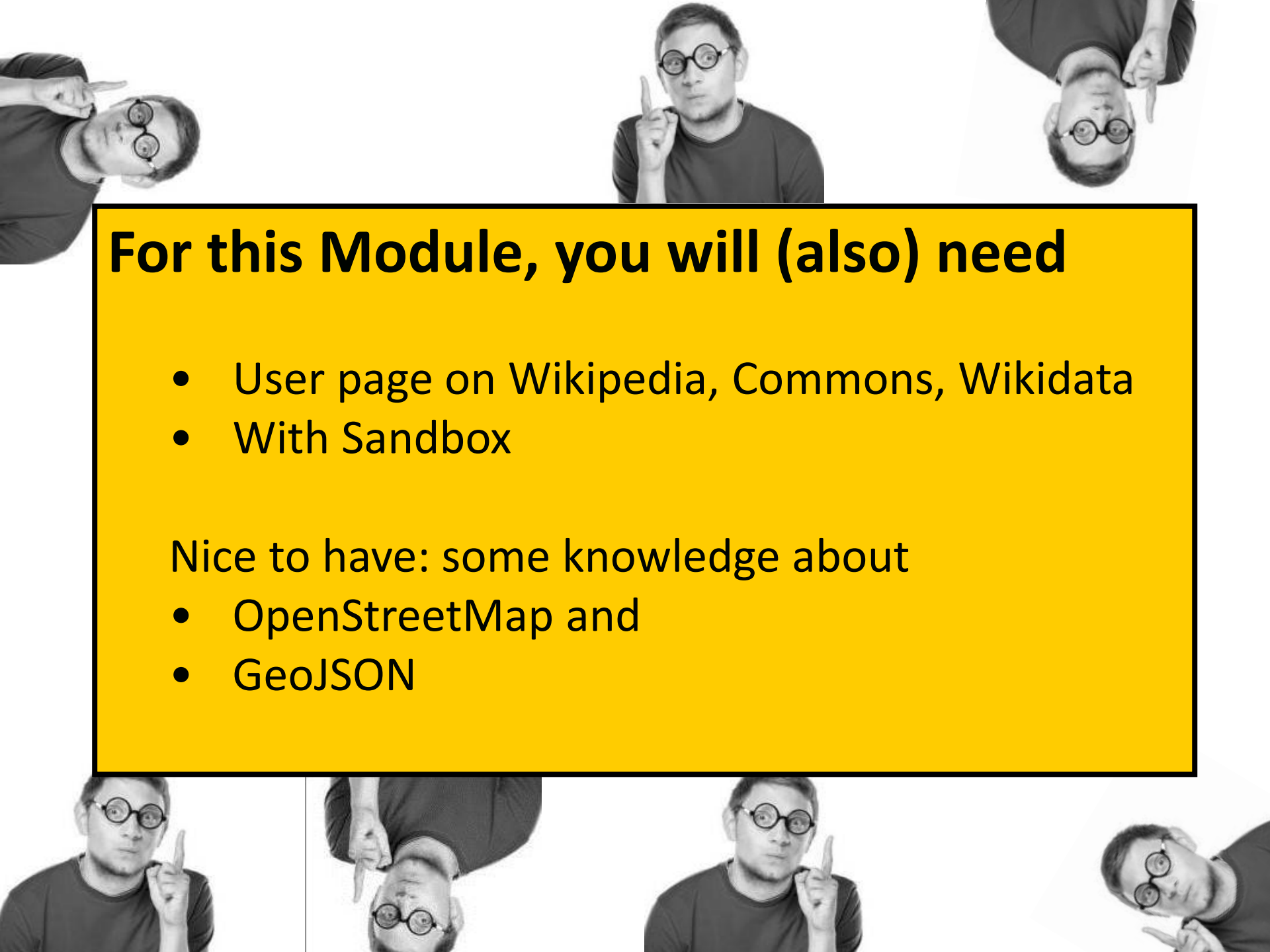
Dutch municipalities, by number of public libraries
https://w.wiki/6gb





MODULE 2

Embedded maps in Wikimedia projects



For this Module, you will (also) need

- User page on Wikipedia, Commons, Wikidata
- With Sandbox

Nice to have: some knowledge about

- OpenStreetMap and
- GeoJSON

Extension:Kartographer

English OlafJanssen 23 26 Talk Preferences Beta Watchlist Contributions Log out

MediaWiki

Help Discussion | Read Edit View history More | Search MediaWiki

Main page
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Get extensions
Tech blog
Contribute

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FAQ
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Communication

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Bug tracker
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Code docs
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Translate this page

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Edit - Translate

The Kartographer extension powers interactive maps on Wikimedia wikis. This page shows techniques for creating dynamic maps by using the Kartographer tags `<mapframe>`, which embeds maps right in wiki pages, and `<maplink>`, which creates links to dynamic maps.

Contents hide

1 Getting started
2 <mapframe> usage
  2.1 Frames
3 <maplink>
  3.1 <maplink> and auto-counters
4 Markers
5 Groups
6 External data
  6.1 GeoShapes via Wikidata Query
  6.2 Map data from Commons
  6.3 Combining multiple data
7 Styling
  7.1 Styling Wikidata ID elements
  7.2 Overlapping elements

https://www.mediawiki.org/wiki/Help:Extension:Kartographer

Basic embedded map, no data

(in my Sandbox on Dutch Wikipedia)

WIKIPEDIA
De vrije encyclopedie

Gebruiker | Overleg

Gebruiker:OlafJanssen/Klad

< Gebruiker:OlafJanssen

Embedded maps in Dutch Wikipedia [bewerken | brontekst bewerken]

Basic embedded map of The Netherlands [bewerken | brontekst bewerken]

Basic embedded map of The Netherlands

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

Hoofdpagina
Vind een artikel
Vandaag
Etalage
Categorieën
Recente wijzigingen
Nieuwe artikelen
Willekeurige pagina

Informatie
Gebruikersportaal
Snelcursus
Hulp en contact
Donaties

Hulpmiddelen
Koppelingen vanaf deze pagina
Links naar deze pagina
Verwante wijzigingen
Gebruikersbijdragen
Logboeken
Deze gebruiker e-mailen
Gebruikersgroepen weergeven
Bestand uploaden
Speciale pagina's
Permanente koppeling
Paginagegevens

Afdrukken/exporteren
Boek maken
Downloaden als PDF
Printvriendelijke versie

Talen

Gebruiker | Overleg | Lezen | Bewer

Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

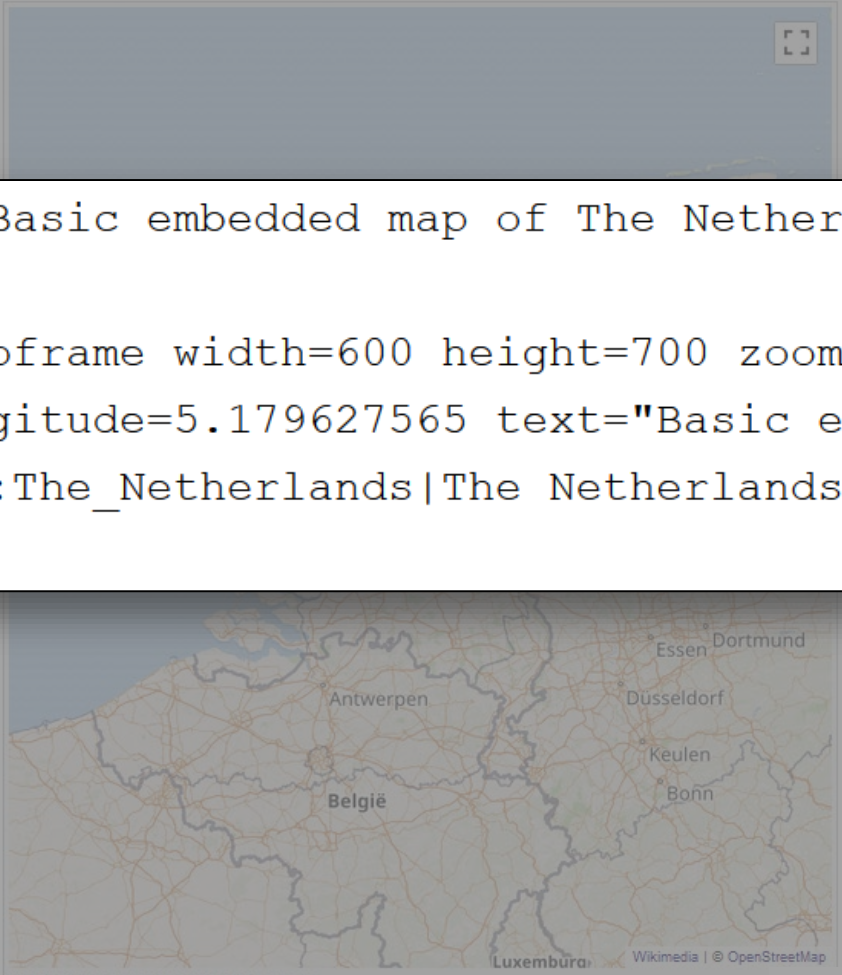
< Gebruiker:OlafJanssen

Embedded maps in Dutch Wikipedia [bewerken | brontekst bewerken]

Basic embedded map of The Netherlands [bewerken | brontekst bewerken]

```
== Basic embedded map of The Netherlands ==

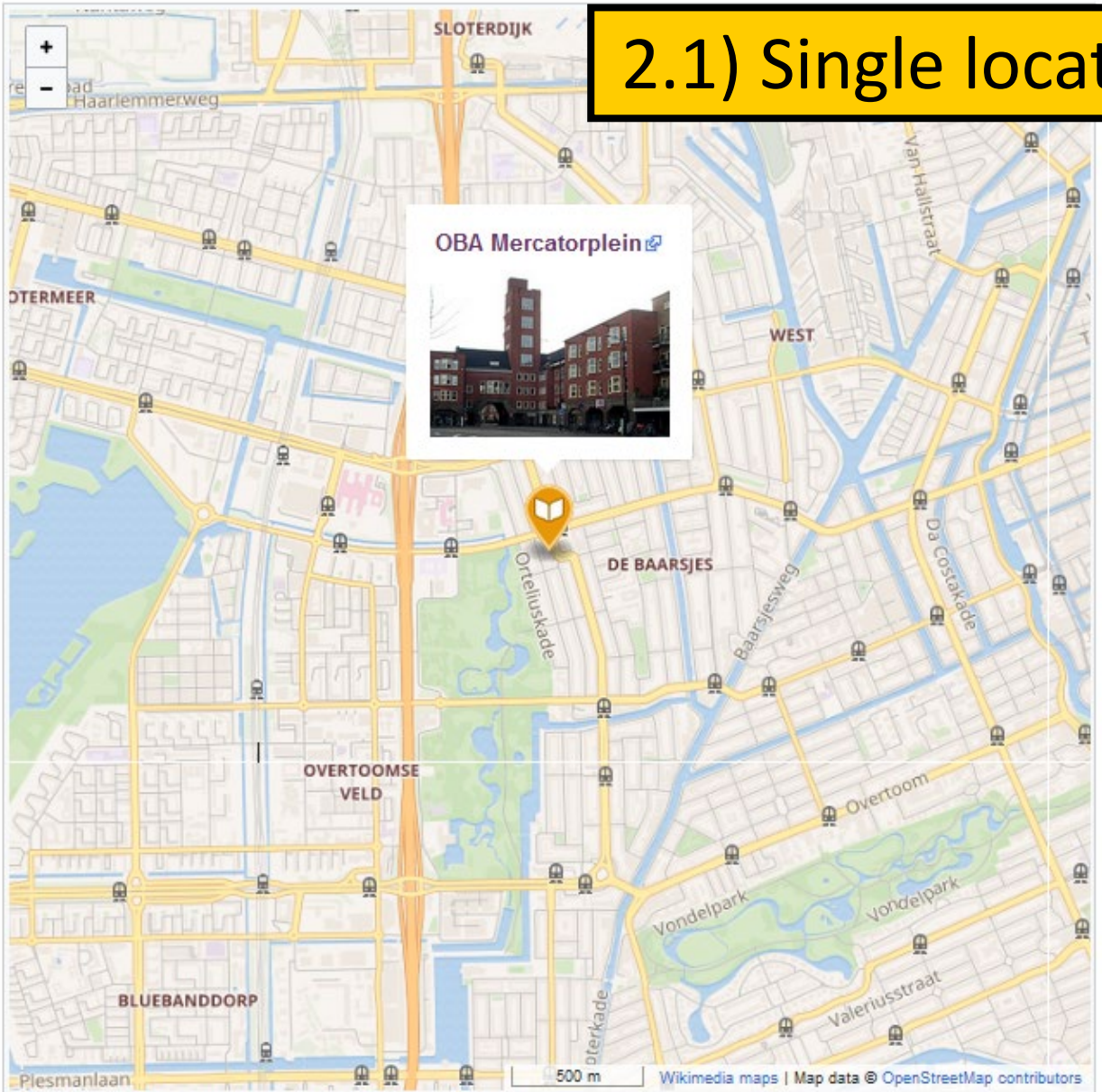
<mapframe width=600 height=700 zoom=7 latitude=52.20
longitude=5.179627565 text="Basic embedded map of
[[w:The_Netherlands|The Netherlands]]" align=left/>
```



Basic embedded map of The Netherlands

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

One public library in Amsterdam, geo coordinates hard coded

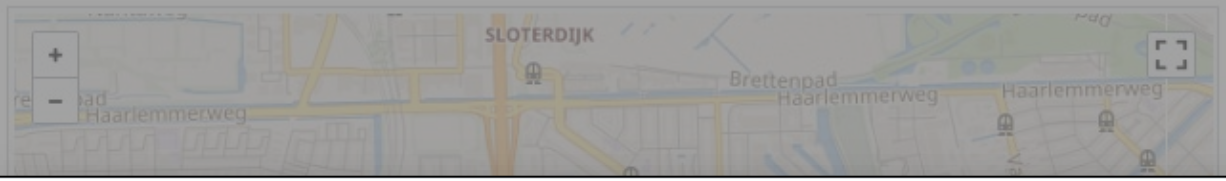


One public library in Amsterdam, geo coordinates hard coded

2.1) Single location, hard-coded

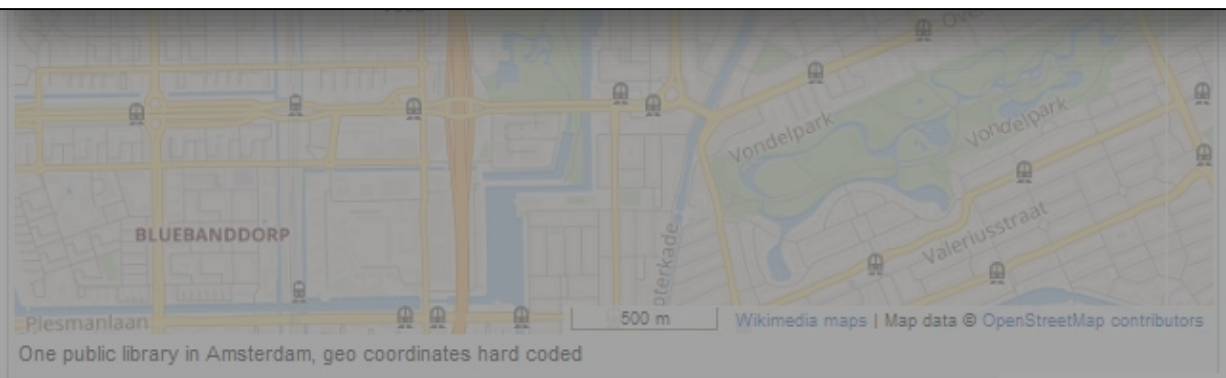
https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

One public library in Amsterdam, geo coordinates hard coded




```
== One public library in Amsterdam, geo coordinates hard-coded ==

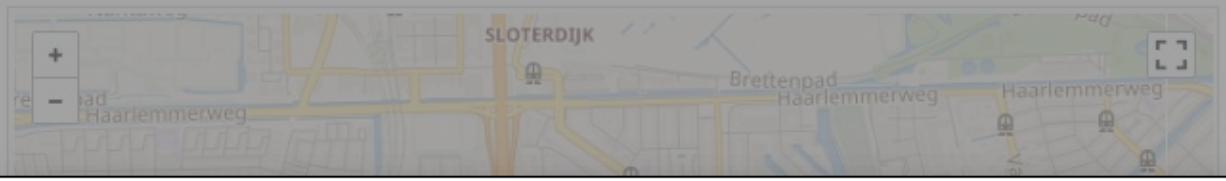
<mapframe text="One public library in Amsterdam, geo coordinates hard-coded" width=700 height=700 zoom=14
latitude=52.3693887 longitude=4.8502319 align=left>
{
  "type": "Feature",
  "geometry": { "type": "Point", "coordinates": [4.8502319, 52.3693887] },
  "properties": {
    "title": "[https://www.oba.nl/vestigingen/oba-mercatorplein.html OBA Mercatorplein]",
    "description": "[[File:Mercatorplein west.JPG|300px]]",
    "marker-symbol": "library",
    "marker-size": "large",
    "marker-color": "ea9809"
  }
}
</mapframe>
```



One public library in Amsterdam, geo coordinates hard coded

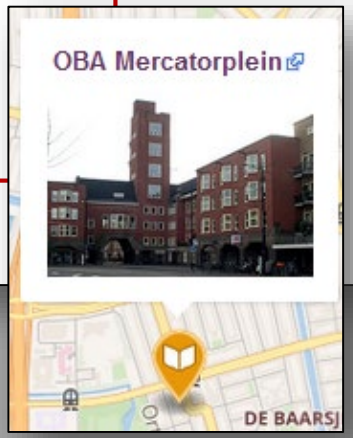
https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

One public library in Amsterdam, geo coordinates hard coded



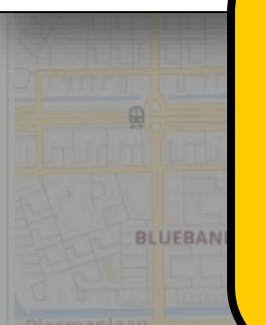

```
== One public library in Amsterdam, geo coordinates hard-coded ==

<mapframe text="One public library in Amsterdam, geo coordinates hard-coded" width=700 height=700 zoom=14
latitude=52.3693887 longitude=4.8502319 align=left>
{
  "type": "Feature",
  "geometry": { "type": "Point", "coordinates": [4.8502319, 52.3693887] },
  "properties": {
    "title": "[https://www.oba.nl/vestigingen/oba-mercatorplein.html OBA Mercatorplein]",
    "description": "[[File:Mercatorplein west.JPG|300px]]",
    "marker-symbol": "library",
    "marker-size": "large",
    "marker-color": "ea9809"
  }
}
</mapframe>
```



Styling of markers

- https://github.com/mapbox/simplestyle-spec/tree/master/1.1.0#3-client-behavior
- https://www.mediawiki.org/wiki/Help:Extension:Kartographer

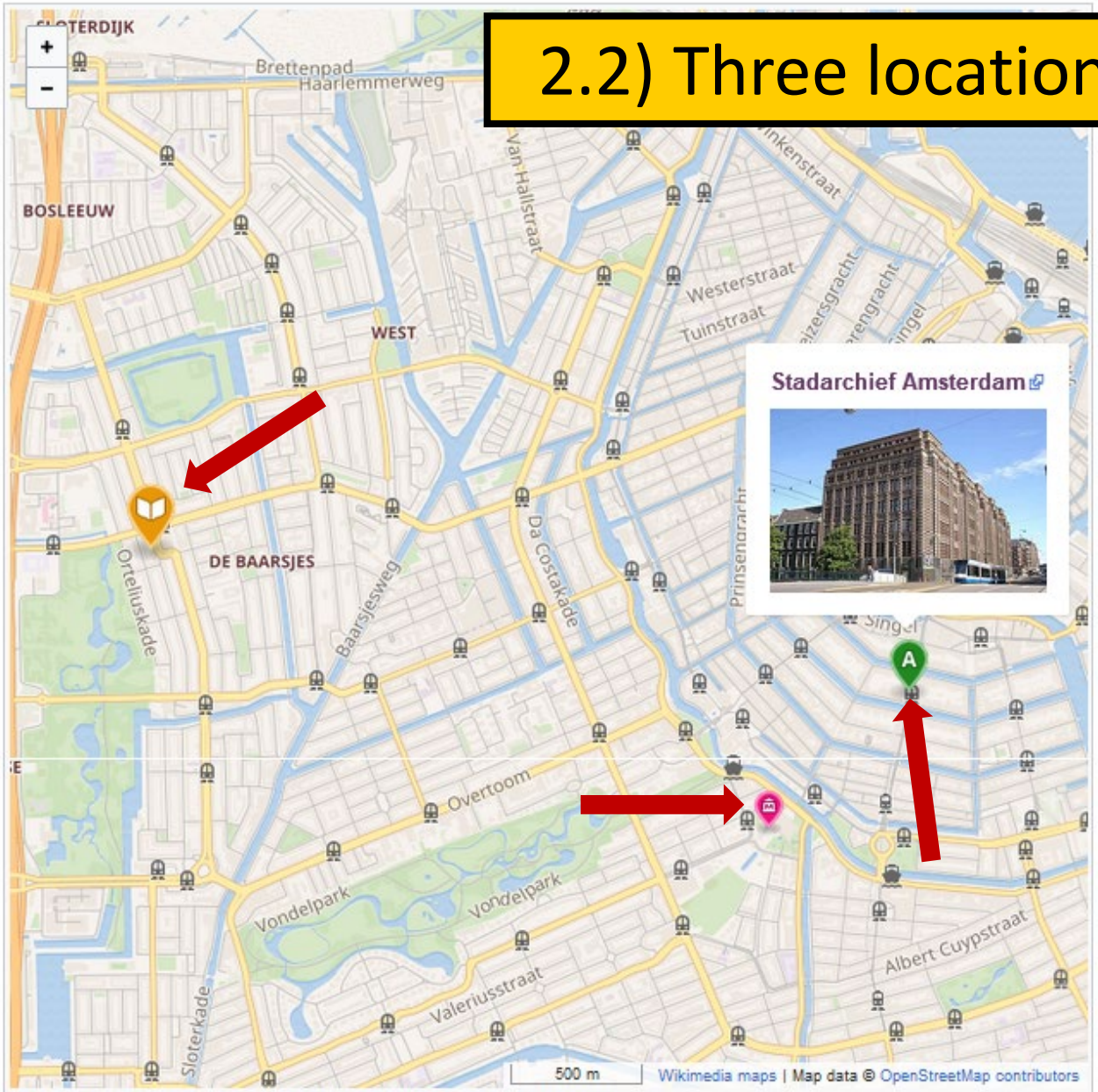


One public library in Amsterdam, geo coordinates hard coded

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

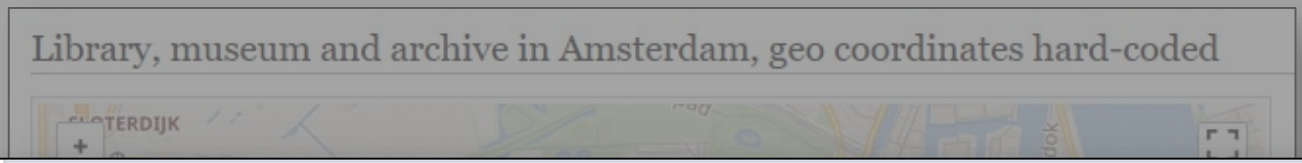
Library, museum and archive in Amsterdam, geo coordinates hard-coded

2.2) Three locations, hard-coded



Library, museum and archive in Amsterdam, geo coordinates hard-coded

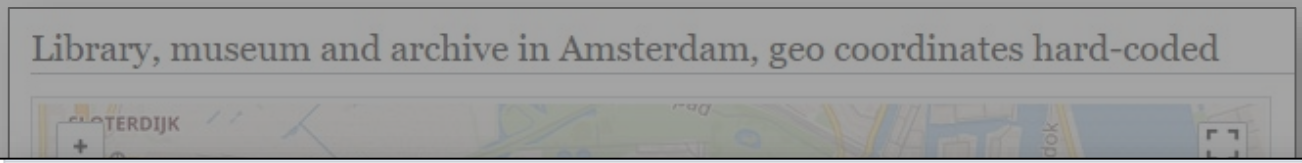
https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019




```
== Library, museum and archive in Amsterdam, geo coordinates hard-coded ==

<mapframe text="Library, museum and archive in Amsterdam, geo coordinates hard-coded" width=700 height=700 zoom=14 latitude=52.3693887 longitude=4.87
{
    "type": "FeatureCollection", "features":
  [
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8502319, 52.3693887] },
      "properties": {
         "title": "[https://www.oba.nl/vestigingen/oba-mercatorplein.html OBA Mercatorplein]",
         "description": "[[File:Mercatorplein west.JPG|300px]]",
         "marker-symbol": "library",
         "marker-size": "large",
         "marker-color": "ea9809" }
    },
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8846644, 52.3598658] },
      "properties": {
         "title": "[https://www.rijksmuseum.nl Rijksmuseum]",
         "description": "[[File:Rijksmuseum.Amsterdam.jpg|300px]]",
         "marker-symbol": "museum",
         "marker-size": "small",
         "marker-color": "f01080" }
    },
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8923905, 52.3645600] },
      "properties": {
         "title": "[https://www.amsterdam.nl/stadsarchief/ Stadarchief Amsterdam]",
         "description": "[[File:Gebouw de Bazel.jpg|300px]]",
         "marker-symbol": "-letter",
         "marker-size": "medium",
         "marker-color": "228b22" }
    }
  ]
}
</mapframe>
```

Library, museum and archive in Amsterdam, geo coordinates hard-coded




```
== Library, museum and archive in Amsterdam, geo coordinates hard-coded ==

<mapframe text="Library, museum and archive in Amsterdam, geo coordinates hard-coded" width=700 height=700 zoom=14 latitude=52.3693887 longitude=4.87
{
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  [
    { "type": "Feature",
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      "properties": {
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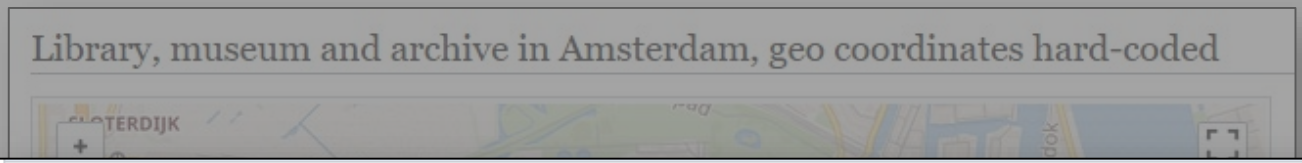
         "description": "[[File:Mercatorplein west.JPG|300px]]",
         "marker-symbol": "library",
         "marker-size": "large",
         "marker-color": "ea9809" }
    },
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8846644, 52.3598658] },
      "properties": {
         "title": "[https://www.rijksmuseum.nl Rijksmuseum]",
         "description": "[[File:Rijksmuseum.Amsterdam.jpg|300px]]",
         "marker-symbol": "museum",
         "marker-size": "small",
         "marker-color": "f01080" }
    },
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8923905, 52.3645600] },
      "properties": {
         "title": "[https://www.amsterdam.nl/stadsarchief/ Stadarchief Amsterdam]",
         "description": "[[File:Gebouw de Bazel.jpg|300px]]",
         "marker-symbol": "-letter",
         "marker-size": "medium",
         "marker-color": "228b22" }
    }
  ]
}
</mapframe>
```

Library, museum and archive in Amsterdam, geo coordinates hard-coded

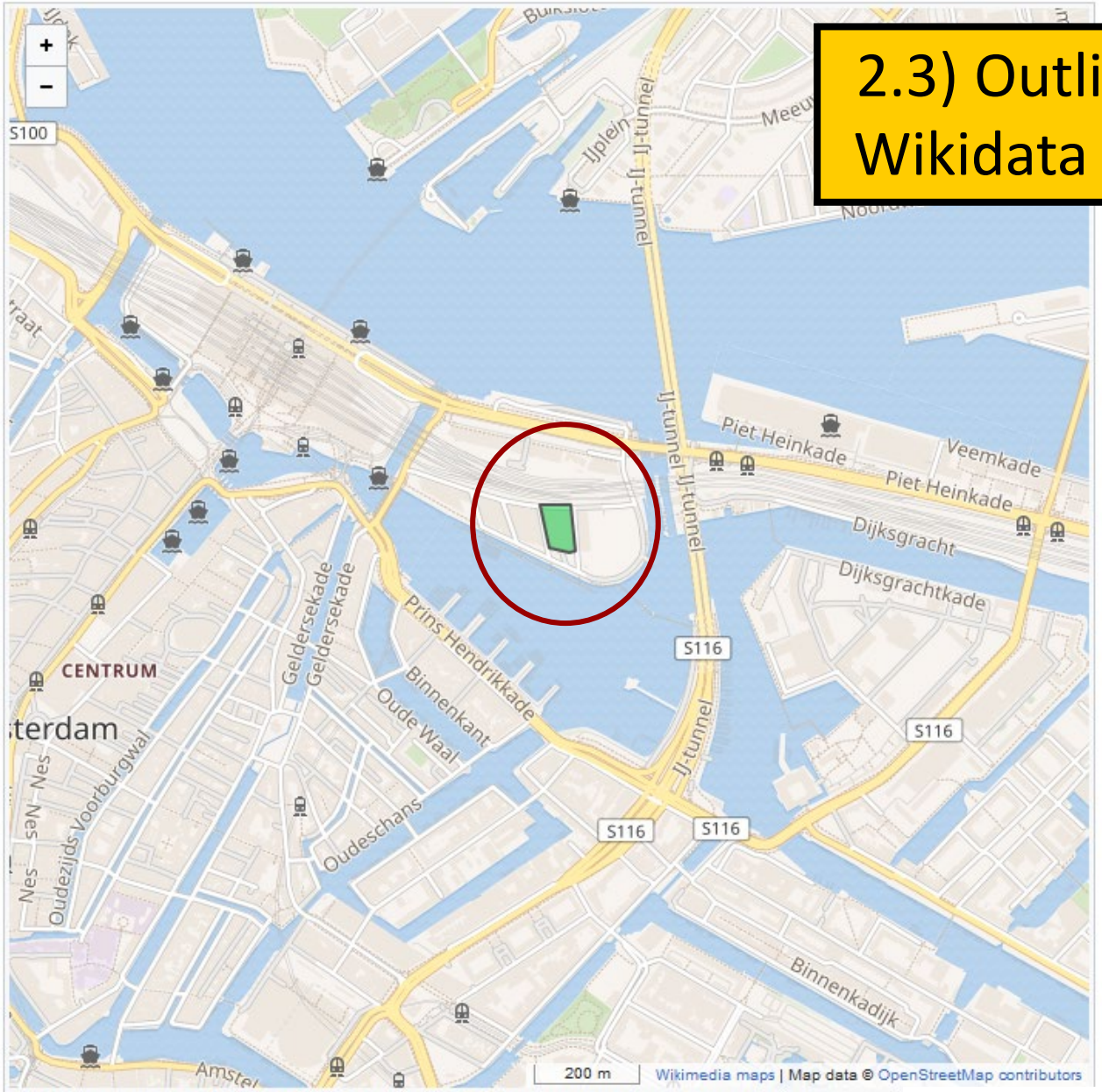



```
== Library, museum and archive in Amsterdam, geo coordinates hard-coded ==

<mapframe text="Library, museum and archive in Amsterdam, geo coordinates hard-coded" width=700 height=700 zoom=14 latitude=52.3693887 longitude=4.87
{
    "type": "FeatureCollection", "features":
  [
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8502319, 52.3693887] },
      "properties": {
         "title": "[https://www.oba.nl/vestigingen/oba-mercatorplein.html OBA Mercatorplein]",
         "description": "[[File:Mercatorplein west.JPG|300px]]",
         "marker-symbol": "library",
         "marker-size": "large",
         "marker-color": "ea9809" }
    },
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8846644, 52.3598658] },
      "properties": {
         "title": "[https://www.rijksmuseum.nl Rijksmuseum]",
         "description": "[[File:Rijksmuseum.Amsterdam.jpg|300px]]",
         "marker-symbol": "museum",
         "marker-size": "small",
         "marker-color": "f01080" }
    },
    { "type": "Feature",
      "geometry": { "type": "Point", "coordinates": [4.8923905, 52.3645600] },
      "properties": {
         "title": "[https://www.amsterdam.nl/stadsarchief/ Stadarchief Amsterdam]",
         "description": "[[File:Gebouw de Bazel.jpg|300px]]",
         "marker-symbol": "-letter",
         "marker-size": "medium",
         "marker-color": "228b22" }
    }
  ]
}
</mapframe>
```

Library, museum and archive in Amsterdam, geo coordinates hard-coded

Outline (geoshape) of Amsterdam public library (main site), using Wikidata and Open Street Map

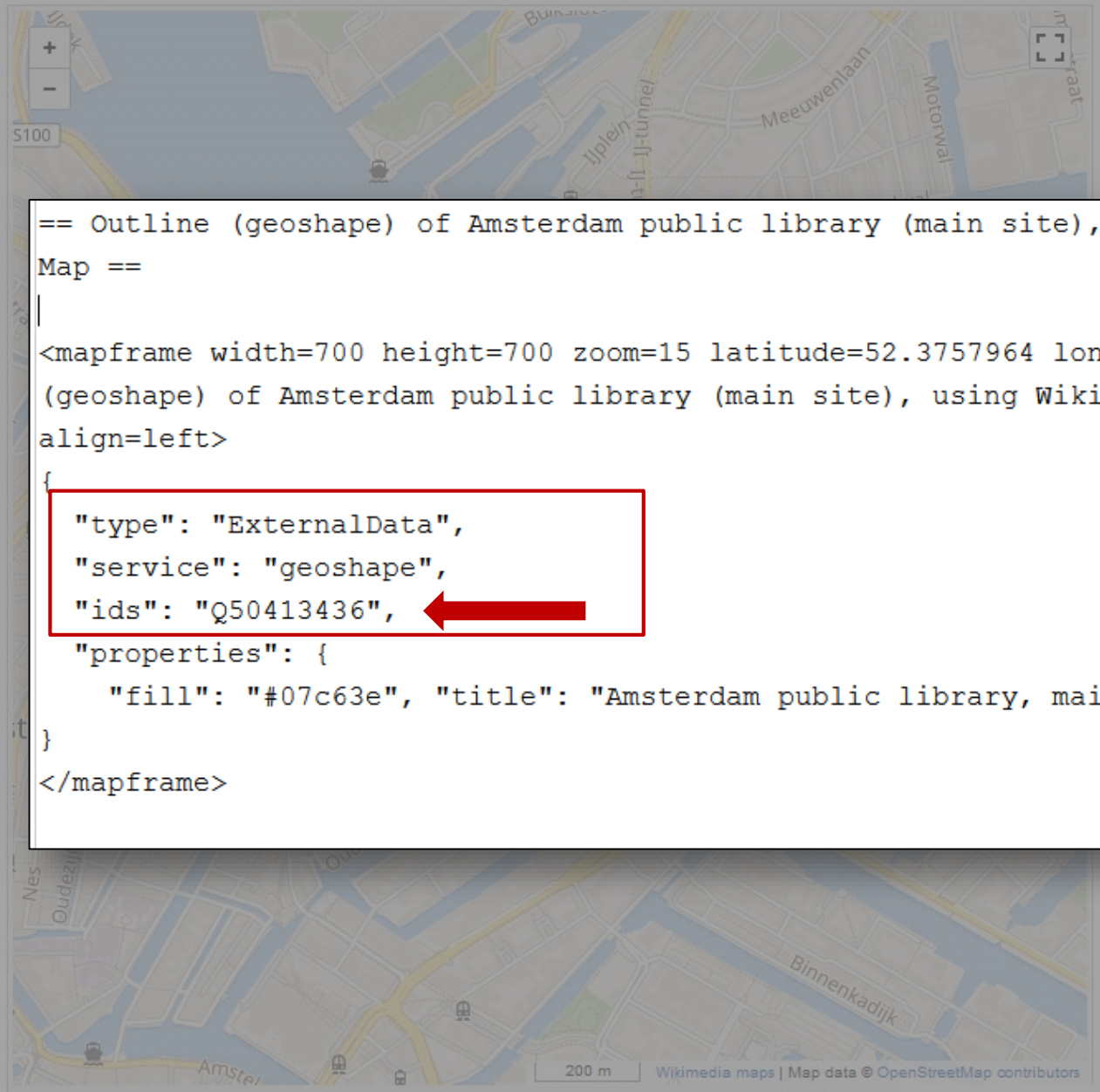


Outline (geoshape) of Amsterdam public library (main site), using Wikidata and Open Street Map

2.3) Outline (GeoShape) via Wikidata & OpenStreetMap

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

Outline (geoshape) of Amsterdam public library (main site), using Wikidata and Open Street Map




```
== Outline (geoshape) of Amsterdam public library (main site), using Wikidata and Open Street
Map ==

<mapframe width=700 height=700 zoom=15 latitude=52.3757964 longitude=4.9079461 text="Outline
(geoshape) of Amsterdam public library (main site), using Wikidata and Open Street Map"
align=left>
{
  "type": "ExternalData",
  "service": "geoshape",
  "ids": "Q50413436",
  "properties": {
    "fill": "#07c63e", "title": "Amsterdam public library, main site"  }
}
</mapframe>
```

Outline (geoshape) of Amsterdam public library (main site), using Wikidata and Open Street Map

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

Amsterdam Public Library, OBA Oosterdok (Centrale) (Q50413436)

Main visitor location and administration offices of the Amsterdam Public Library, The Netherlands

edit

OBA Oosterdok (Centrale)

https://www.wikidata.org/wiki/**Q50413436**

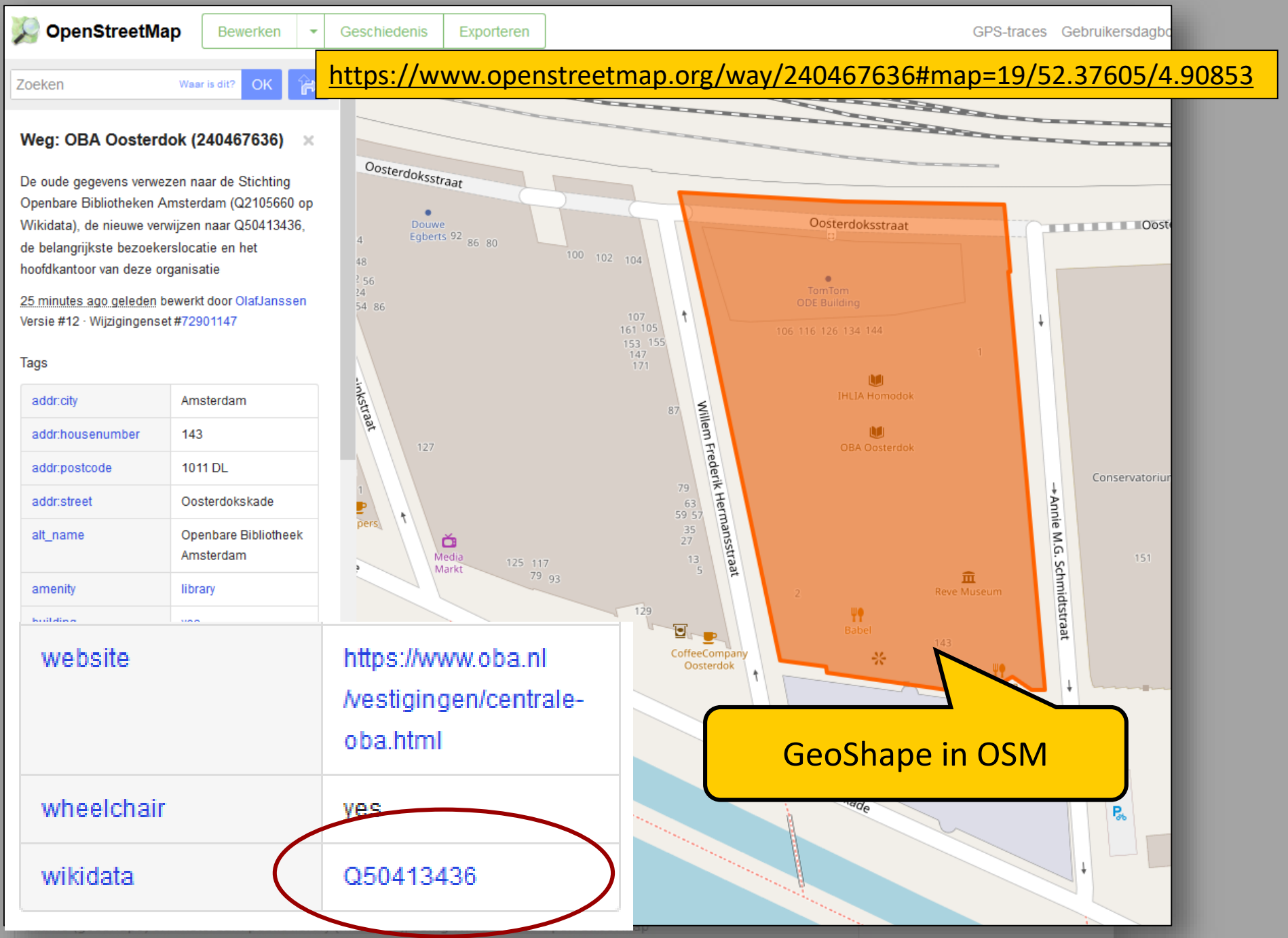
In more languages

Language	Label	Description	Also known as
English	Amsterdam Public Library, OBA Oosterdok (Centrale)	Main visitor location and administration offices of the Amsterdam Public Library, The Netherlands	OBA Oosterdok (Centrale)
German	No label defined	Bibliothek	
Spanish	No label defined	No description defined	
French	No label defined	bibliothèque	
Italian	No label defined	No description defined	
Dutch	OBA Oosterdok (Centrale)	Hoofdvestiging en administratief hoofdkantoor van de Openbare Bibliotheek Amsterdam	OBA Oosterdok (Centrale) Centrale OBA

All entered languages

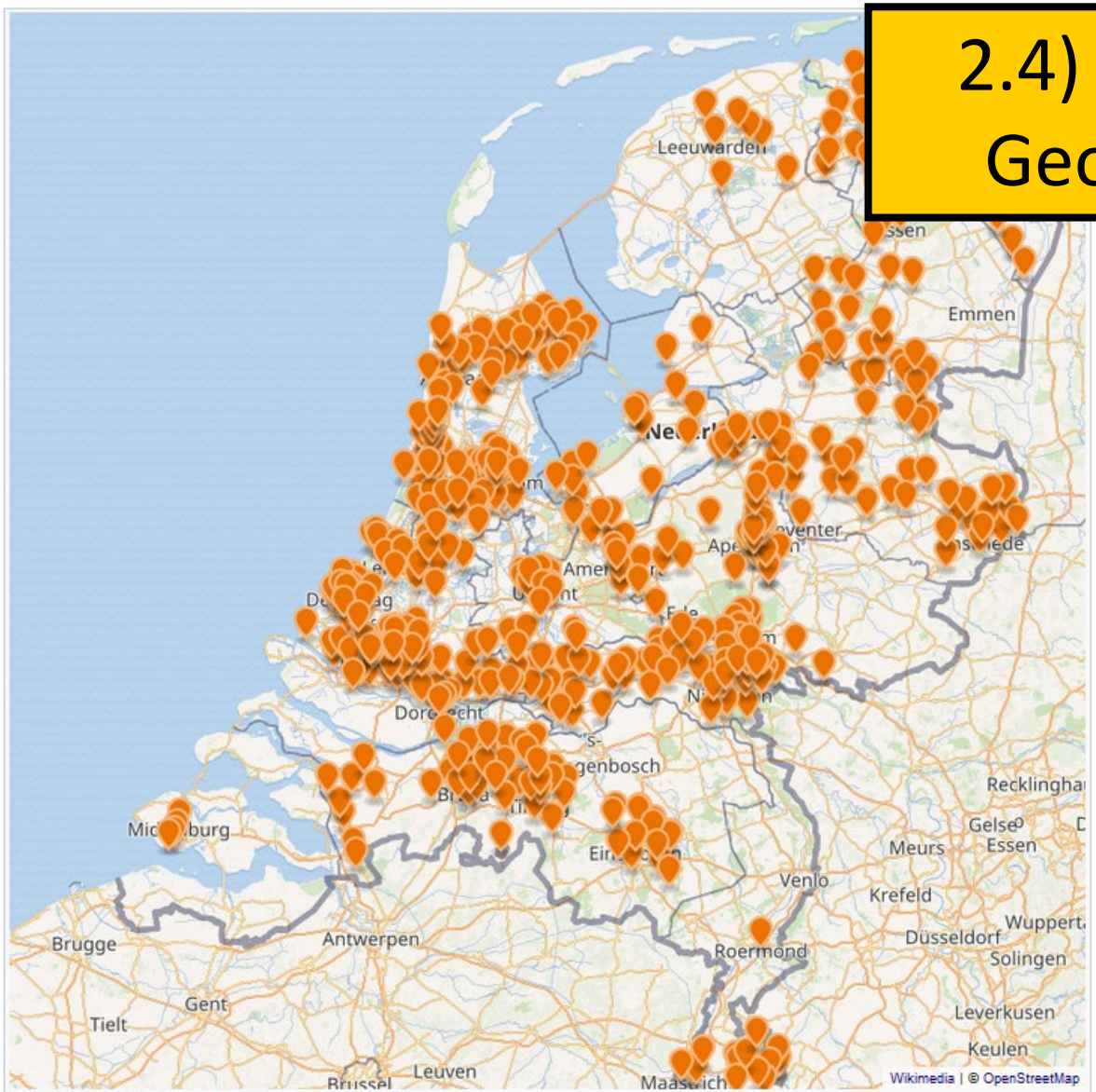
Statements

instance of	public library 0 references add reference	edit
	library branch 0 references add reference	edit


OpenStreetMap
Bewerken
Geschiedenis
Exporteren
GPS-traces
Zoeken
Waar is dit?
OK
https://www.openstreetmap.org/way/240467636#map=19/52.37605/4.90853
Weg: OBA Oosterdok (240467636)
De oude gegevens verwezen naar de Stichting Openbare Bibliotheken Amsterdam (Q2105660 op Wikidata), de nieuwe verwijzen naar Q50413436, de belangrijkste bezoekerslocatie en het hoofdkantoor van deze organisatie
25 minutes ago geleden bewerkt door OlafJanssen
Versie #12 · Wijzigingenset #72901147
Tags
addr:city Amsterdam
addr:housenumber 143
addr:postcode 1011 DL
addr:street Oosterdokskade
alt_name Openbare Bibliotheek Amsterdam
amenity library
website https://www.oba.nl/vestigingen/centrale-oba.html
wheelchair yes
wikidata Q50413436
Oosterdoksstraat
Douwe Egberts
TomTom ODE Building
IHLIA Homodok
OBA Oosterdok
Willem Frederik Hermansstraat
Annie M.G. Schmidtstraat
Media Markt
Reve Museum
Babel
CoffeeCompany Oosterdok
Conservatorium
GeoShape in OSM

2.4) Many locations, GeoJSON .map file

Map of Dutch public libraries [bewerken | brontekst bewerken]



Map of Dutch public libraries, work in progress, 21-5-2019

SPARQL-query used to make DutchPublicLibraries.map (further instructions in the query)

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

Map of Dutch public libraries [bewerken | brontekst bewerken]

Map of Dutch public libraries, work in progress, 21-5-2019

SPARQL-query used to make DutchPublicLibraries.map (further instructions in the query)

```
== Map of Dutch public libraries ==
<mapframe width=800 height=800 zoom=8 latitude=52.20 longitude=5.119627565 text="Map of Dutch public libraries, work in progress, 21-5-2019" align=left>
{
  "type": "ExternalData",
  "service": "page",
  "title": "DutchPublicLibraries.map",
}
</mapframe>
```

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

Map of Dutch public libraries [bewerken | brontekst bewerken]

Map of Dutch public libraries, work in progress, 21-5-2019

SPARQL-query used to make DutchPublicLibraries.map (further instructions in the query)

```
== Map of Dutch public libraries ==
<mapframe width=800 height=800 zoom=8 latitude=52.20 longitude=5.119627565 text="Map of Dutch
public libraries, work in progress, 21-5-2019" align=left>
{
  "type": "ExternalData",
  "service": "page",
  "title": "DutchPublicLibraries.map",
}
</mapframe>
```

?

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

https://commons.wikimedia.org/wiki/Data:DutchPublicLibraries.map

Not logged in Talk Contributio

Data

Data:DutchPublicLibraries.map

Wikimedia Commons in het Nederlands

From Wikimedia Commons, the free media repository

Map of Dutch public libraries, incomplete, work in progress, 10-8-2019

WIKIMEDIA COMMONS

Main page
Welcome
Community portal
Village pump
Help center

Taal
English

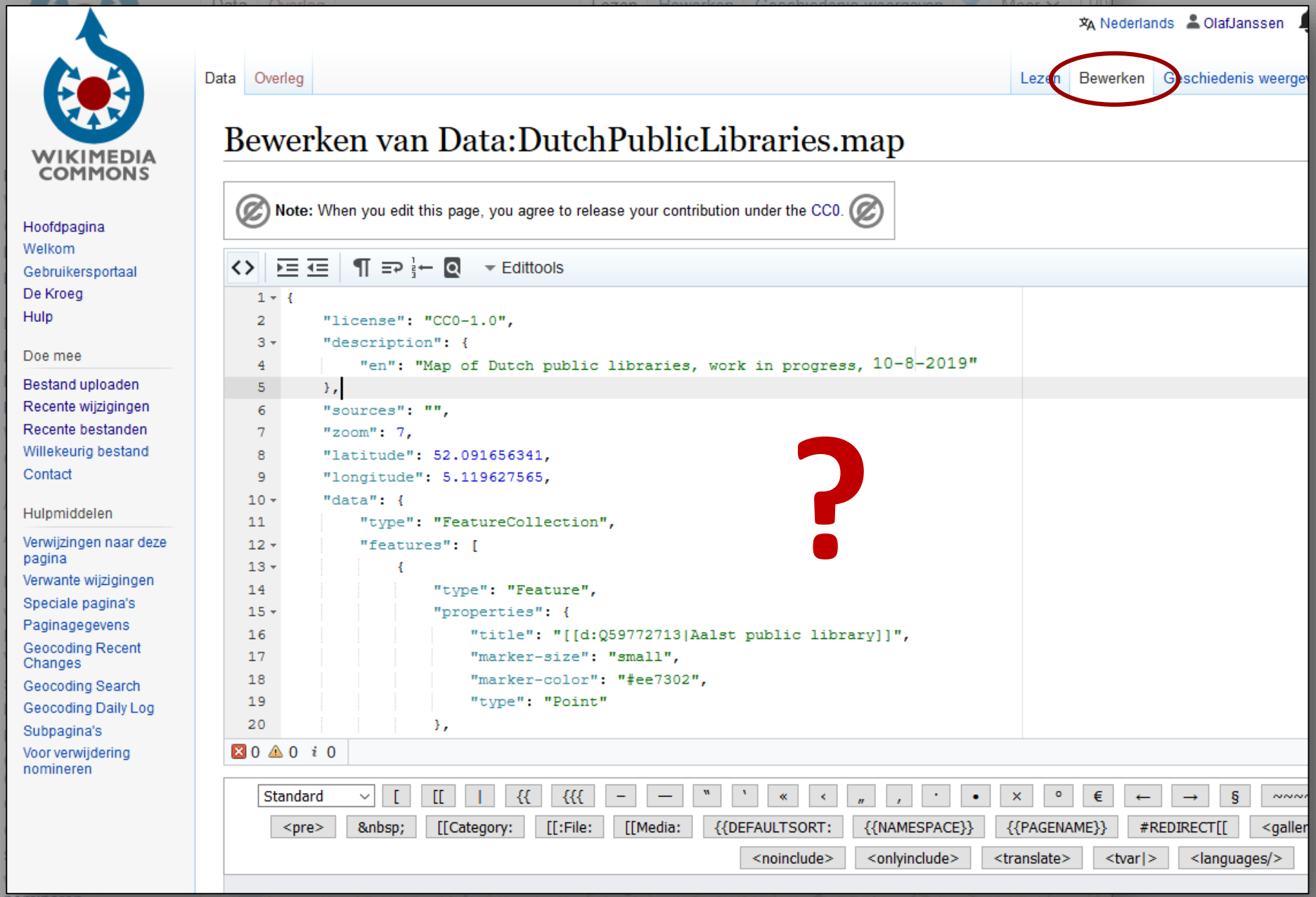
Participate
Upload file
Recent changes
Latest files
Random file
Contact us

Print/export
Download as PDF

Tools
What links here
Related changes
Special pages
Permanent link
Page information
Subpages
Nominate for deletion

In Wikipedia
Add links

https://commons.wikimedia.org/wiki/Data:DutchPublicLibraries.map



https://www.mediawiki.org/wiki/Help:Map_Data

Help:Map Data

Note: When you edit this page, you agree to release your contribution under the CC0. See Public Domain Help Pages for more info.

Edit · Translate

Map data allows users to store GeoJSON data on wiki, similar to images. Other wikis may use this data to draw on top of the maps, together with other map customizations.

To create a new map data, go to Wikimedia Commons, and create a new page in the **Data** namespace with the **.map** suffix, such as `Data:Sandbox/Name/Example.map`. F
experiment by creating pages with the **Sandbox/<username>/** prefix. For now, page content can only be edited in the raw JSON format. Eventually, we hope there will be a p
editor to simplify GeoJSON creation.

Data licensing [edit]

All data in the `Data:` namespace must licensed under one of the following licences:

- CC0-1.0
- CC-BY versions: CC-BY-1.0, CC-BY-2.0, CC-BY-2.5, CC-BY-3.0, CC-BY-4.0, CC-BY-4.0+
- CC-BY-SA versions: CC-BY-SA-1.0, CC-BY-SA-2.0, CC-BY-SA-2.5, CC-BY-SA-3.0, CC-BY-SA-4.0, CC-BY-SA-4.0+
- ODbL-1.0

The default license is empty string (e.g invalid license) and when a user tries to save page with invalid license, they will be notified of the allowed licenses.

Top-level fields [edit]

Map data has several required and optional top-level elements:

- The **required** `"license"` field must always be set to one of the allowed string values, e.g. `"CC0-1.0"` (see #Data licensing).
- The **optional** `"description"` field must be set to a localized string value - an object with at least one key-value, where the key is a language code (e.g. "en"), and the
- The **optional** `"sources"` field must be a Wiki markup string value that describes the source of the map data.
- The **optional** `"zoom"` field must be an integer between 0 and 18. This value is only used for displaying map on its own page, not when including it in the articles.
- The **optional** `"latitude"` and `"longitude"` fields specify the center of the map when displaying it on its own page, not when including it in the articles.
- The **required** `"data"` field must be set to the valid GeoJSON content. Per GeoJSON specification, `"properties"` field may be set for every Feature object. The map
properties, such as `"title"`, `"description"`, `"fill"` (color), and others. Additionally, the `"title"` and `"description"` fields may be either strings or localized
tabular data). This allows the same map data to appear differently depending on the user's language.

Main page
Get MediaWiki
Get extensions
Tech blog
Contribute

Support
User help
FAQ
Technical manual
Support desk
Communication

Development
Bug tracker
Code repository
Code docs
Statistics

MediaWiki.org
Community portal
Recent changes
Translate content
Random page
Current issues
Sandbox

Print/export
Create a book
Download as PDF
Printable version

Tools
What links here

https://commons.wikimedia.org/wiki/Data:DutchPublicLibraries.map

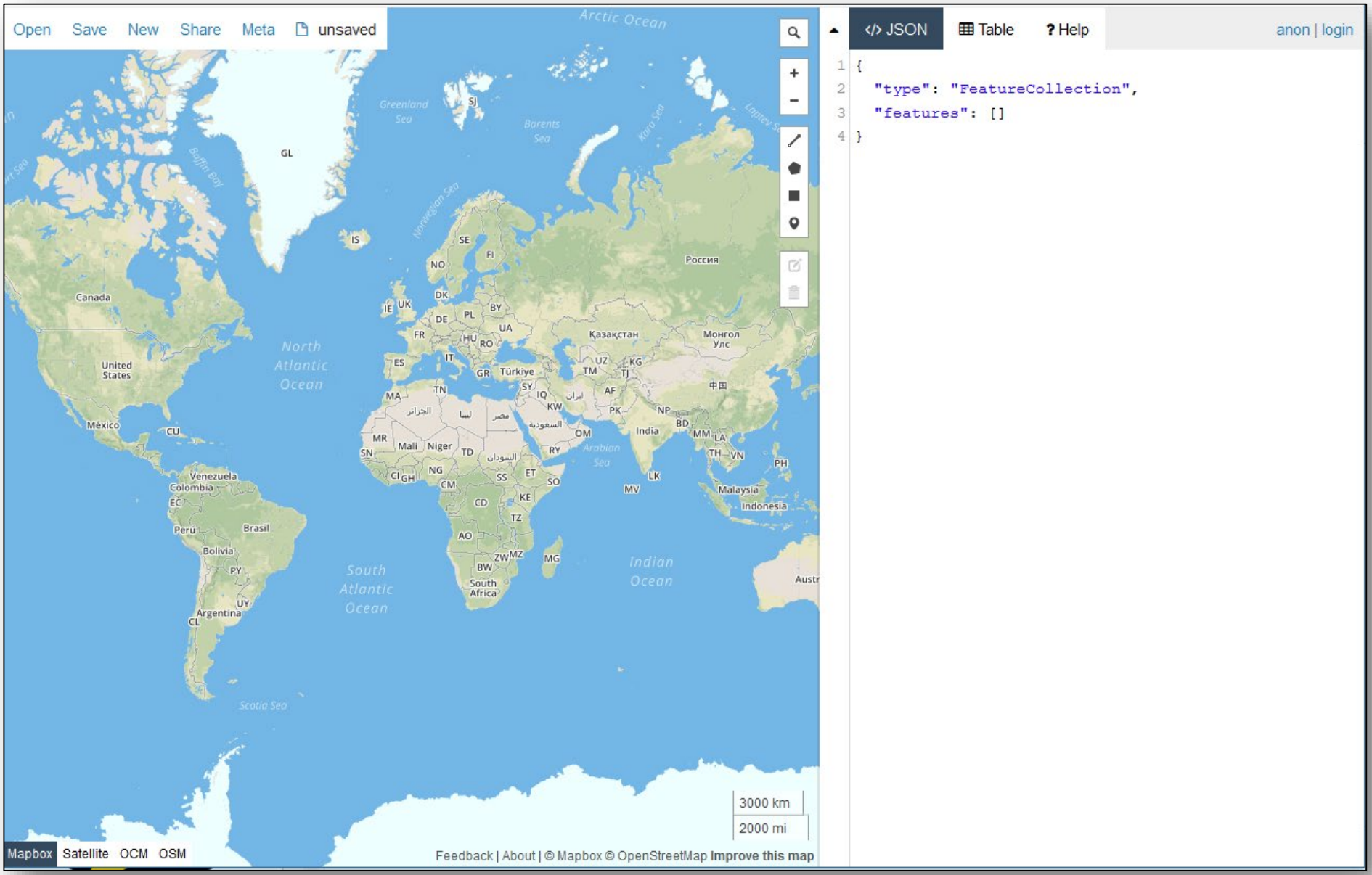
https://commons.wikimedia.org/wiki/Data:DutchPublicLibraries.map

Edittools

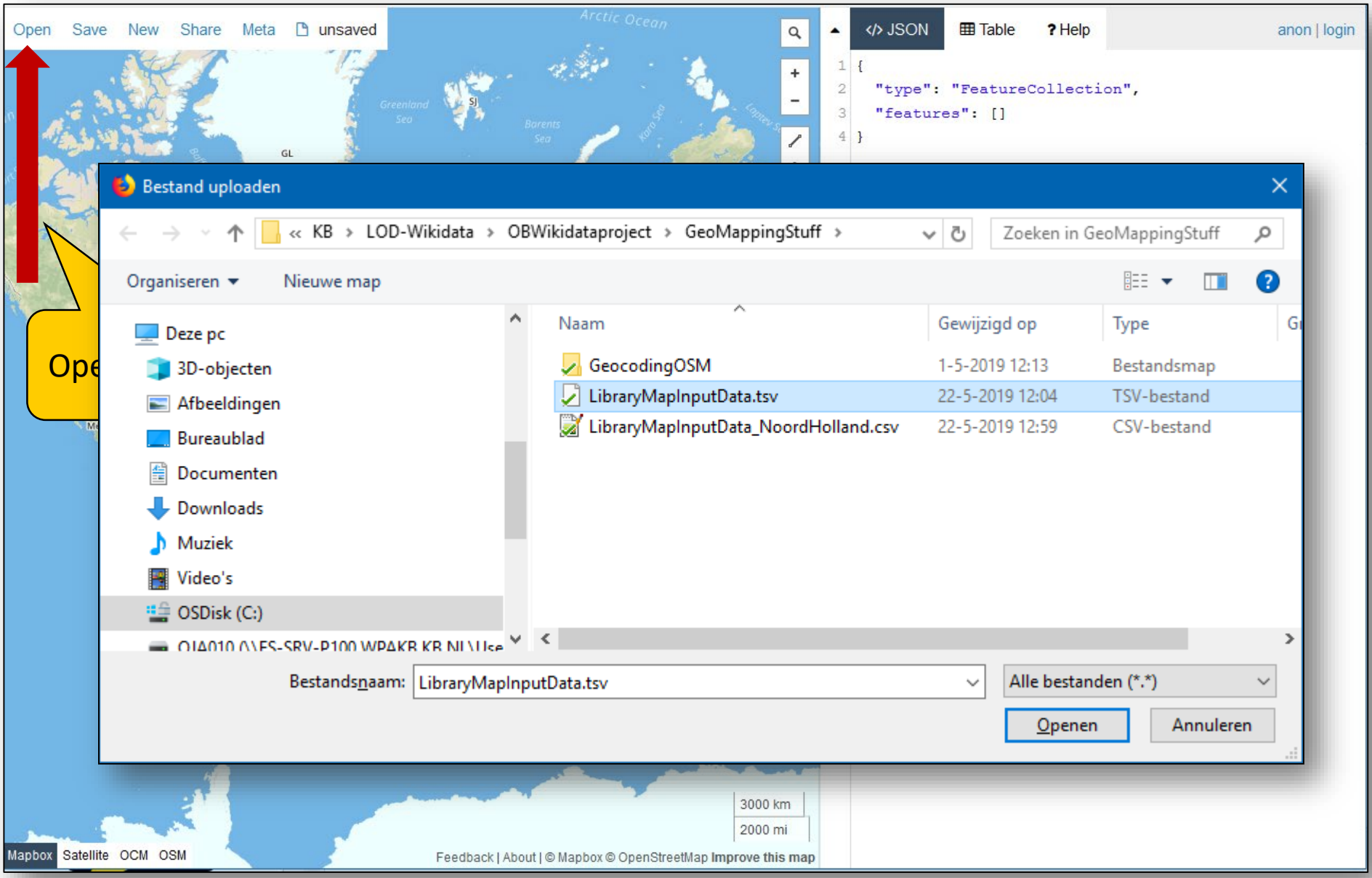
```
1  {
2      "license": "CC0-1.0",
3      "description": {
4          "en": "Your English title here"
5      },
6      "sources": "",
7      "zoom": 8,
8      "latitude": 52.091656341,
9      "longitude": 5.119627565,
10     "data":
11
12     INSERT YOUR GEOJSON DATA HERE (output of http://geojson.io)
13
14 }
15
```

Single “}”

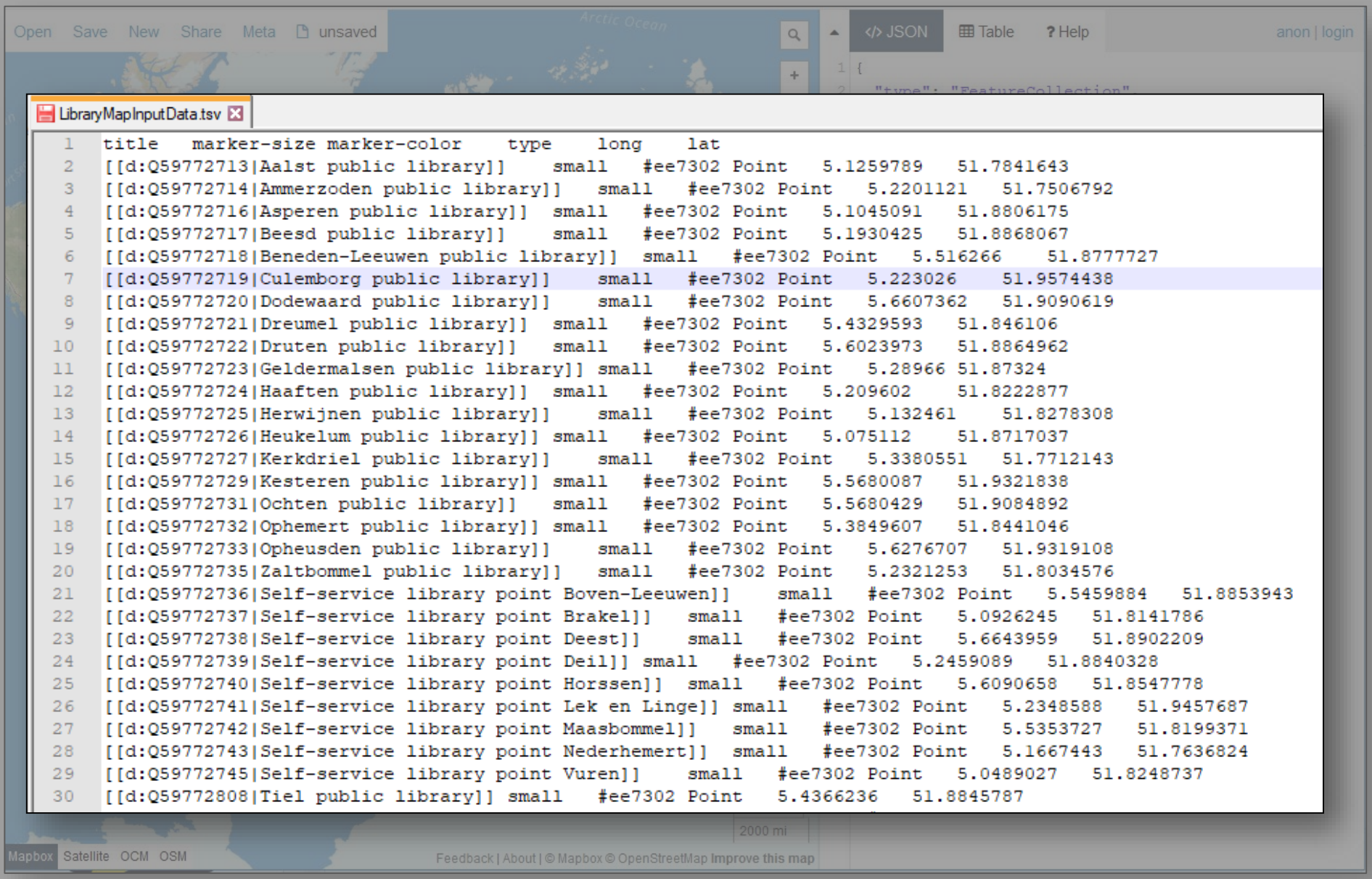
Geojson.io


Open
Save
New
Share
Meta
unsaved
JSON
Table
Help
anon | login
{
"type": "FeatureCollection",
"features": []
}
Arctic Ocean
North Atlantic Ocean
South Atlantic Ocean
Indian Ocean
Arabian Sea
Barents Sea
Greenland Sea
Norwegian Sea
Baffin Bay
Scotia Sea
Canada
United States
México
Venezuela
Colombia
Perú
Brasil
Bolivia
Argentina
Россия
Қазақстан
Монгол Улс
Türkiye
India
Malaysia
Indonesia
South Africa
3000 km
2000 mi
Mapbox
Satellite
OCM
OSM
Feedback | About | © Mapbox © OpenStreetMap Improve this map

Geojson.io


Open
Save
New
Share
Meta
unsaved
Arctic Ocean
Greenland Sea
Barents Sea
Kara Sea
JSON
Table
Help
anon | login
{
"type": "FeatureCollection",
"features": []
}
Bestand uploaden
« KB › LOD-Wikidata › OBWikidataproject › GeoMappingStuff ›
Zoeken in GeoMappingStuff
Organiseren
Nieuwe map
Deze pc
3D-objecten
Afbeeldingen
Bureaublad
Documenten
Downloads
Muziek
Video's
OSDisk (C:)
Naam
Gewijzigd op
Type
GeocodingOSM
1-5-2019 12:13
Bestandsmap
LibraryMapInputData.tsv
22-5-2019 12:04
TSV-bestand
LibraryMapInputData_NoordHolland.csv
22-5-2019 12:59
CSV-bestand
Bestandsnaam:
LibraryMapInputData.tsv
Alle bestanden (*.*)
Openen
Annuleren
3000 km
2000 mi
Mapbox
Satellite
OCM
OSM
Feedback | About | © Mapbox © OpenStreetMap Improve this map

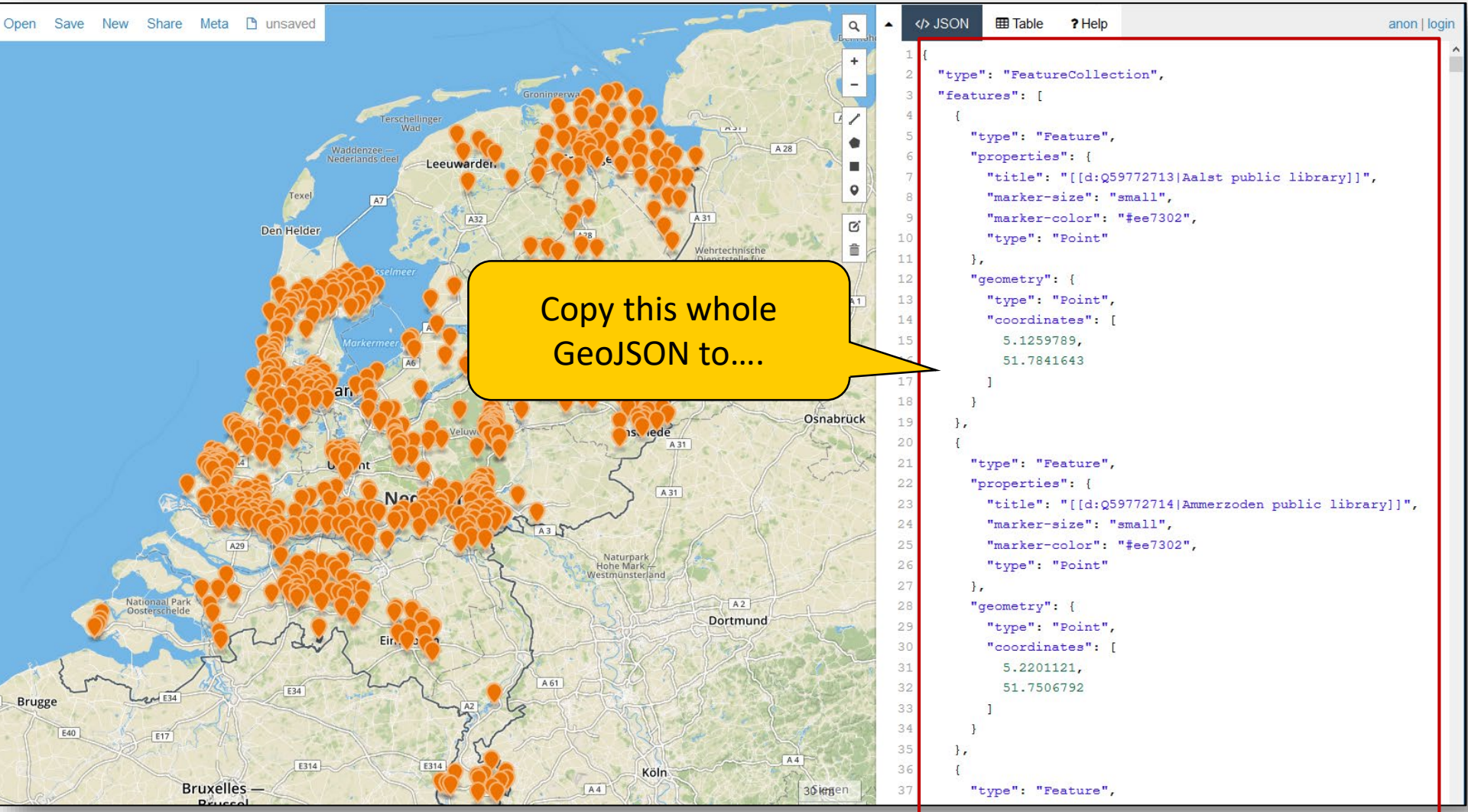
Geojson.io



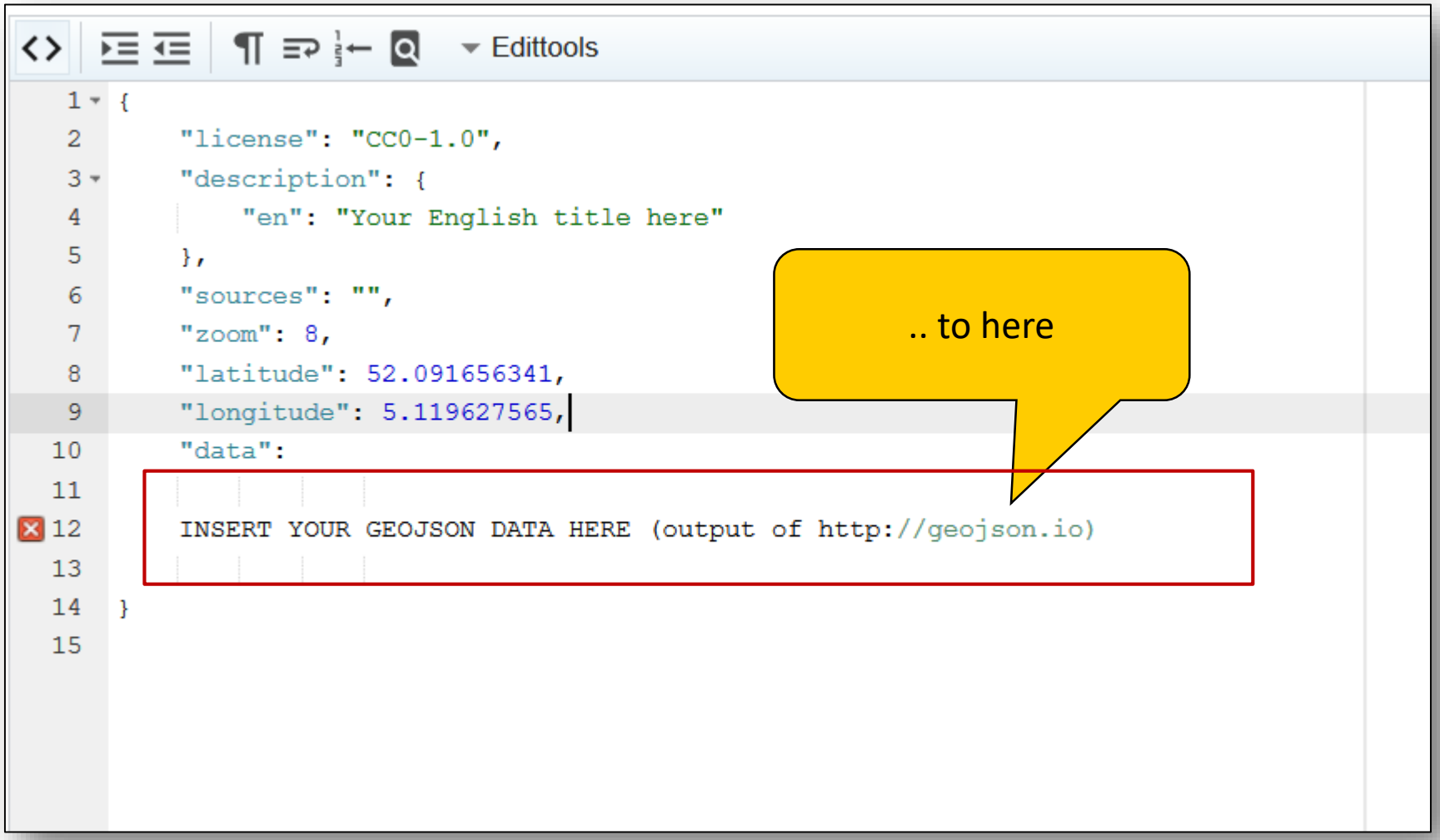
LibraryMapInputData.tsv

	title	marker-size	marker-color	type	long	lat
2	[[d:Q59772713|Aalst public library]]	small	#ee7302	Point	5.1259789	51.7841643
3	[[d:Q59772714|Ammerzoden public library]]	small	#ee7302	Point	5.2201121	51.7506792
4	[[d:Q59772716|Asperen public library]]	small	#ee7302	Point	5.1045091	51.8806175
5	[[d:Q59772717|Beesd public library]]	small	#ee7302	Point	5.1930425	51.8868067
6	[[d:Q59772718|Beneden-Leeuwen public library]]	small	#ee7302	Point	5.516266	51.8777727
7	[[d:Q59772719|Culemborg public library]]	small	#ee7302	Point	5.223026	51.9574438
8	[[d:Q59772720|Dodewaard public library]]	small	#ee7302	Point	5.6607362	51.9090619
9	[[d:Q59772721|Dreumel public library]]	small	#ee7302	Point	5.4329593	51.846106
10	[[d:Q59772722|Druten public library]]	small	#ee7302	Point	5.6023973	51.8864962
11	[[d:Q59772723|Geldermalsen public library]]	small	#ee7302	Point	5.28966	51.87324
12	[[d:Q59772724|Haaften public library]]	small	#ee7302	Point	5.209602	51.8222877
13	[[d:Q59772725|Herwijnen public library]]	small	#ee7302	Point	5.132461	51.8278308
14	[[d:Q59772726|Heukelum public library]]	small	#ee7302	Point	5.075112	51.8717037
15	[[d:Q59772727|Kerkdriel public library]]	small	#ee7302	Point	5.3380551	51.7712143
16	[[d:Q59772729|Kesteren public library]]	small	#ee7302	Point	5.5680087	51.9321838
17	[[d:Q59772731|Ochten public library]]	small	#ee7302	Point	5.5680429	51.9084892
18	[[d:Q59772732|Ophemert public library]]	small	#ee7302	Point	5.3849607	51.8441046
19	[[d:Q59772733|Opheusden public library]]	small	#ee7302	Point	5.6276707	51.9319108
20	[[d:Q59772735|Zaltbommel public library]]	small	#ee7302	Point	5.2321253	51.8034576
21	[[d:Q59772736|Self-service library point Boven-Leeuwen]]	small	#ee7302	Point	5.5459884	51.8853943
22	[[d:Q59772737|Self-service library point Brakel]]	small	#ee7302	Point	5.0926245	51.8141786
23	[[d:Q59772738|Self-service library point Deest]]	small	#ee7302	Point	5.6643959	51.8902209
24	[[d:Q59772739|Self-service library point Deil]]	small	#ee7302	Point	5.2459089	51.8840328
25	[[d:Q59772740|Self-service library point Horssen]]	small	#ee7302	Point	5.6090658	51.8547778
26	[[d:Q59772741|Self-service library point Lek en Linge]]	small	#ee7302	Point	5.2348588	51.9457687
27	[[d:Q59772742|Self-service library point Maasbommel]]	small	#ee7302	Point	5.5353727	51.8199371
28	[[d:Q59772743|Self-service library point Nederhemert]]	small	#ee7302	Point	5.1667443	51.7636824
29	[[d:Q59772745|Self-service library point Vuren]]	small	#ee7302	Point	5.0489027	51.8248737
30	[[d:Q59772808|Tiel public library]]	small	#ee7302	Point	5.4366236	51.8845787

Geojson.io


Open
Save
New
Share
Meta
unsaved
JSON
Table
Help
anon | login
Copy this whole GeoJSON to….
Leeuwarden
Den Helder
Texel
Osnabrück
Dortmund
Köln
Brugge
Bruxelles — Brussel
Nationaal Park Oosterschelde
Naturpark Hohe Mark — Westmünsterland
Markermeer
Waddenzee — Nederlands deel
Terschellinger Wad
Wehrtechnische Dienststelle für
30 km
{
"type": "FeatureCollection",
"features": [
{
"type": "Feature",
"properties": {
"title": "[[d:Q59772713|Aalst public library]]",
"marker-size": "small",
"marker-color": "#ee7302",
"type": "Point"
},
"geometry": {
"type": "Point",
"coordinates": [
5.1259789,
51.7841643
]
}
},
{
"type": "Feature",
"properties": {
"title": "[[d:Q59772714|Ammerzoden public library]]",
"marker-size": "small",
"marker-color": "#ee7302",
"type": "Point"
},
"geometry": {
"type": "Point",
"coordinates": [
5.2201121,
51.7506792
]
}
},
{
"type": "Feature",

https://commons.wikimedia.org/wiki/Data:DutchPublicLibraries.map



But how do you make this TSV?

LibraryMapInputData.tsv

```
title   marker-size marker-color    type    long    lat
[[d:Q59772713|Aalst public library]]    small   #ee7302 Point   5.1259789   51.7841643
[[d:Q59772714|Ammerzoden public library]]   small   #ee7302 Point   5.2201121   51.7506792
[[d:Q59772716|Asperen public library]]  small   #ee7302 Point   5.1045091   51.8806175
[[d:Q59772717|Beesd public library]]    small   #ee7302 Point   5.1930425   51.8868067
[[d:Q59772718|Beneden-Leeuwen public library]]  small   #ee7302 Point   5.516266    51.8777727
[[d:Q59772719|Culemborg public library]]    small   #ee7302 Point   5.223026    51.9574438
[[d:Q59772720|Dodewaard public library]]    small   #ee7302 Point   5.6607362   51.9090619
[[d:Q59772721|Dreumel public library]]  small   #ee7302 Point   5.4329593   51.846106
[[d:Q59772722|Druten public library]]   small   #ee7302 Point   5.6023973   51.8864962
[[d:Q59772723|Geldermalsen public library]] small   #ee7302 Point   5.28966 51.87324
[[d:Q59772724|Haaften public library]]  small   #ee7302 Point   5.209602    51.8222877
[[d:Q59772725|Herwijnen public library]]    small   #ee7302 Point   5.132461    51.8278308
[[d:Q59772726|Heukelum public library]] small   #ee7302 Point   5.075112    51.8717037
[[d:Q59772727|Kerkdriel public library]]    small   #ee7302 Point   5.3380551   51.7712143
[[d:Q59772729|Kesteren public library]] small   #ee7302 Point   5.5680087   51.9321838
[[d:Q59772731|Ochten public library]]   small   #ee7302 Point   5.5680429   51.9084892
[[d:Q59772732|Ophemert public library]] small   #ee7302 Point   5.3849607   51.8441046
[[d:Q59772733|Opheusden public library]]    small   #ee7302 Point   5.6276707   51.9319108
[[d:Q59772735|Zaltbommel public library]]   small   #ee7302 Point   5.2321253   51.8034576
[[d:Q59772736|Self-service library point Boven-Leeuwen]]    small   #ee7302 Point   5.5459884   51.8853943
[[d:Q59772737|Self-service library point Brakel]]   small   #ee7302 Point   5.0926245   51.8141786
[[d:Q59772738|Self-service library point Deest]]    small   #ee7302 Point   5.6643959   51.8902209
[[d:Q59772739|Self-service library point Deil]] small   #ee7302 Point   5.2459089   51.8840328
[[d:Q59772740|Self-service library point Horssen]]  small   #ee7302 Point   5.6090658   51.8547778
[[d:Q59772741|Self-service library point Lek en Linge]] small   #ee7302 Point   5.2348588   51.9457687
[[d:Q59772742|Self-service library point Maasbommel]]   small   #ee7302 Point   5.5353727   51.8199371
[[d:Q59772743|Self-service library point Nederhemert]]  small   #ee7302 Point   5.1667443   51.7636824
[[d:Q59772745|Self-service library point Vuren]]    small   #ee7302 Point   5.0489027   51.8248737
[[d:Q59772808|Tiel public library]] small   #ee7302 Point   5.4366236   51.8845787
```

Adapt this query, save output as .tsv

Wikidata Query Service | Voorbeelden | Hulp | Meer hulpmiddelen

```
#Query used to make GeoJSON input for https://commons.wikimedia.org/wiki/Data:DutchPublicLibraries.map
#Steps involved
#1) Download and save query result as tsv file
#2) Rename headers (replace '_' with '-') in this tsv file :
#     marker_size -->  marker-size
#     marker_color --> marker-color
#     marker_symbol --> marker-symbol
#3) Upload this file to geojson.io (Open --> File)
#4) Copy-paste GeoJSON output (right pane) into Data:DutchPublicLibraries.map file (in the "data" field)

SELECT DISTINCT ?title ?marker_size ?marker_color ?type ?marker_symbol ?long ?lat  WHERE {
#Is Dutch public library branch
?dpl wdt:P31 wd:Q28564. #public library
?dpl wdt:P31 wd:Q11396180. #library branch
?dpl wdt:P17 wd:Q55. #in the Netherlands

?dpl wdt:P625 ?dplLoc. #Location of the dpl

# Get the English Wikidata label of the dpl
?dpl rdfs:label ?dplLabel.
FILTER (lang(?dplLabel) = 'en')

#Transform from 'http://www.wikidata.org/entity/Q63890044   Akersloot public library' to '[[d:Q63890044|Akersloot public library]]'
BIND(CONCAT('[[d:',STRAFTER(STR(?dpl),"http://www.wikidata.org/entity/"),'|',?dplLabel,']]') AS ?title)

# Set 4 default values
BIND("small" AS ?marker_size)
BIND("#ee7302" AS ?marker_color)
BIND("library" AS ?marker_symbol)
BIND("Point" AS ?type)

#Transform: 'Point(4.7322704 52.5633782)' (in 1 column) to  '4.7322704' , '52.5633782' ( i.e. 2 columns longitude + latitude)
BIND(STRBEFORE(STRAFTER(STR(?dplLoc), ' '), ')') AS ?lat)
BIND(STRBEFORE(STRAFTER(STR(?dplLoc), 'Point('), ' ') AS ?long)

}
ORDER BY ?title
```

https://bit.ly/2YG48aY

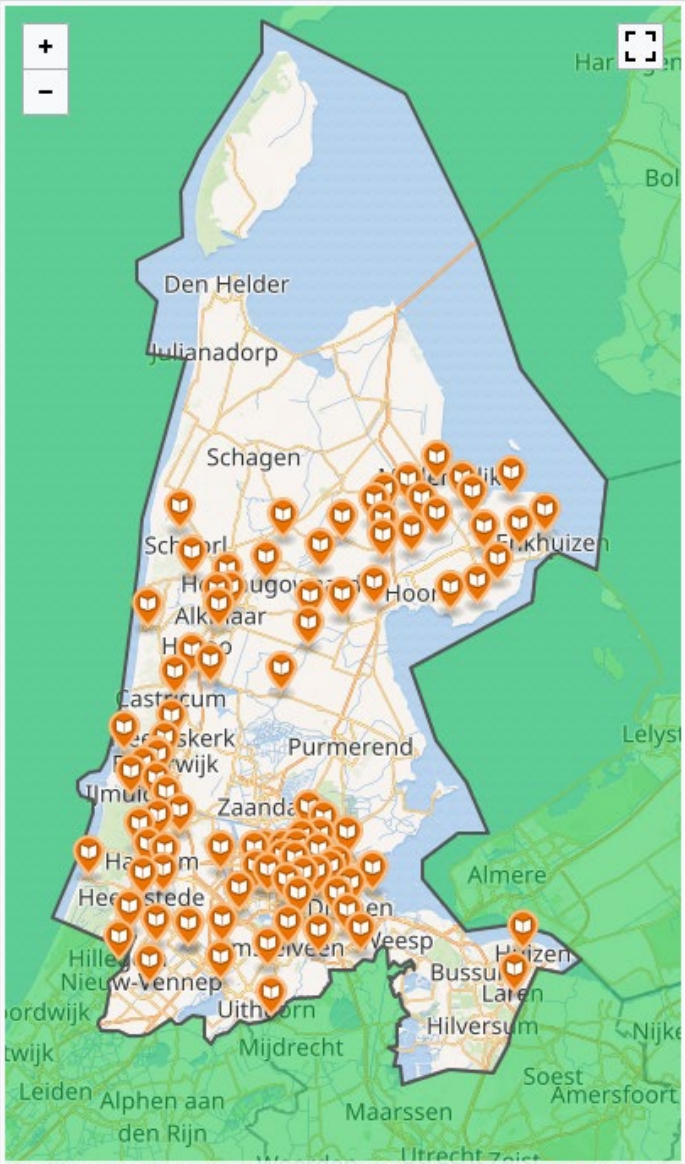
Copy-paste in browser!

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

2.5) Combining data types

GeoShape + .map

Combining geoshape (with geomask) and .map

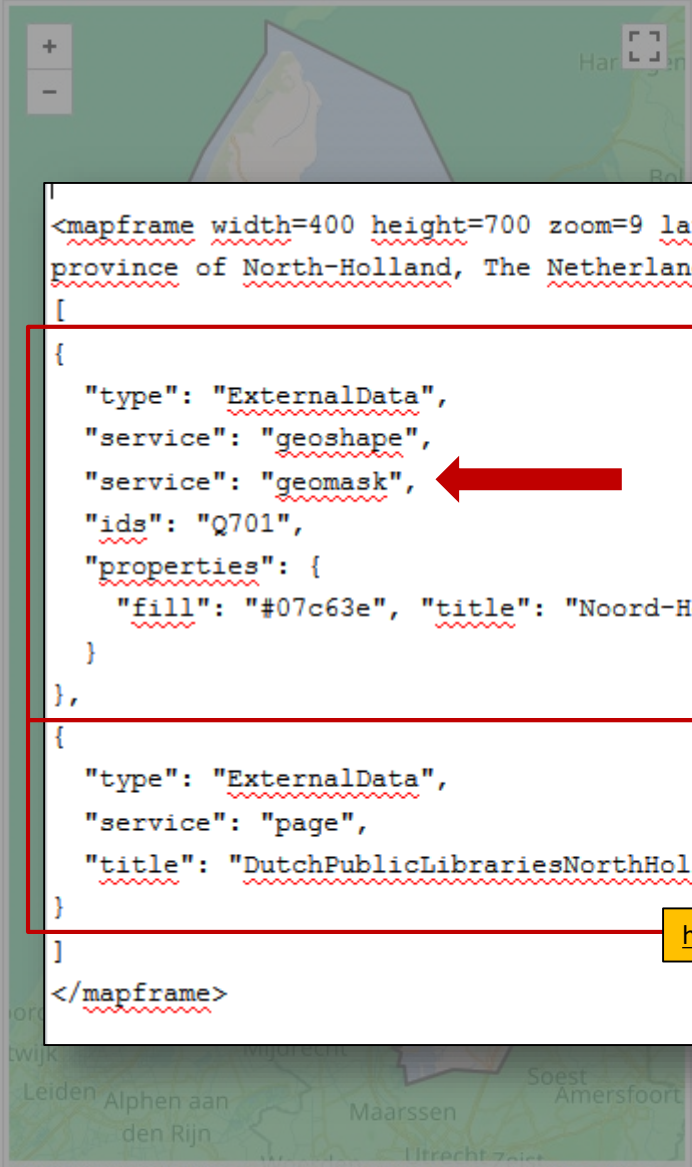


Map of public libraries in the province of North-Holland, The Netherlands. Geomask is used

https://www.mediawiki.org/wiki/Help:Extension:Kartographer#Combining_multiple_data_types

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

Combining geoshape (with geomask) and .map

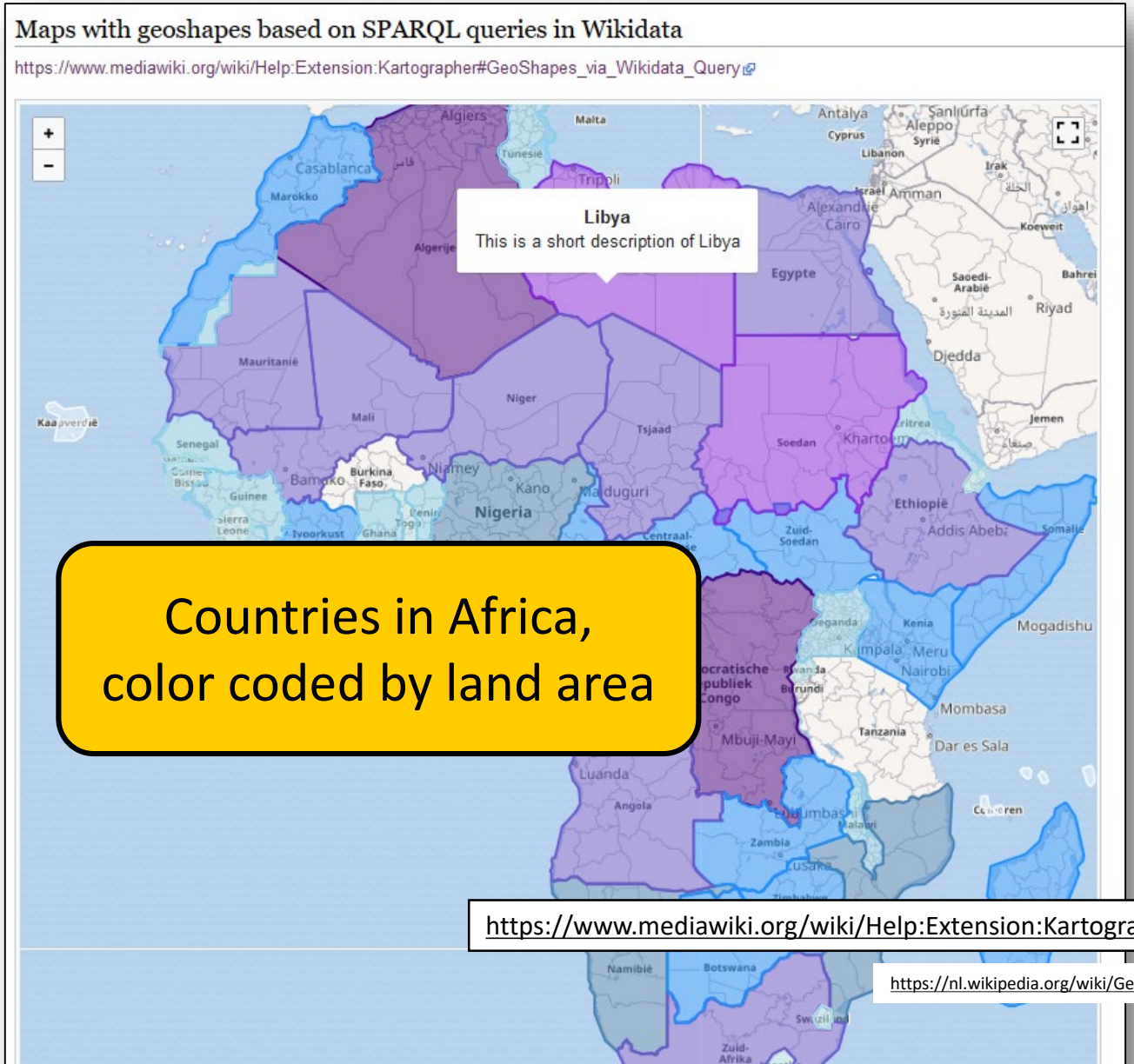


Map of public libraries in the province of North-Holland, The Netherlands. Geomask is used

```
<mapframe width=400 height=700 zoom=9 latitude=52.65 longitude=4.95 text="Map of public libraries in the province of North-Holland, The Netherlands. Geomask is used" align=left>
[
{
  "type": "ExternalData",
  "service": "geoshape",
  "service": "geomask",
  "ids": "Q701",
  "properties": {
    "fill": "#07c63e", "title": "Noord-Holland"
  }
},
{
  "type": "ExternalData",
  "service": "page",
  "title": "DutchPublicLibrariesNorthHolland.map"
}
]
</mapframe>
```

https://commons.wikimedia.org/wiki/Data:DutchPublicLibrariesNorthHolland.map

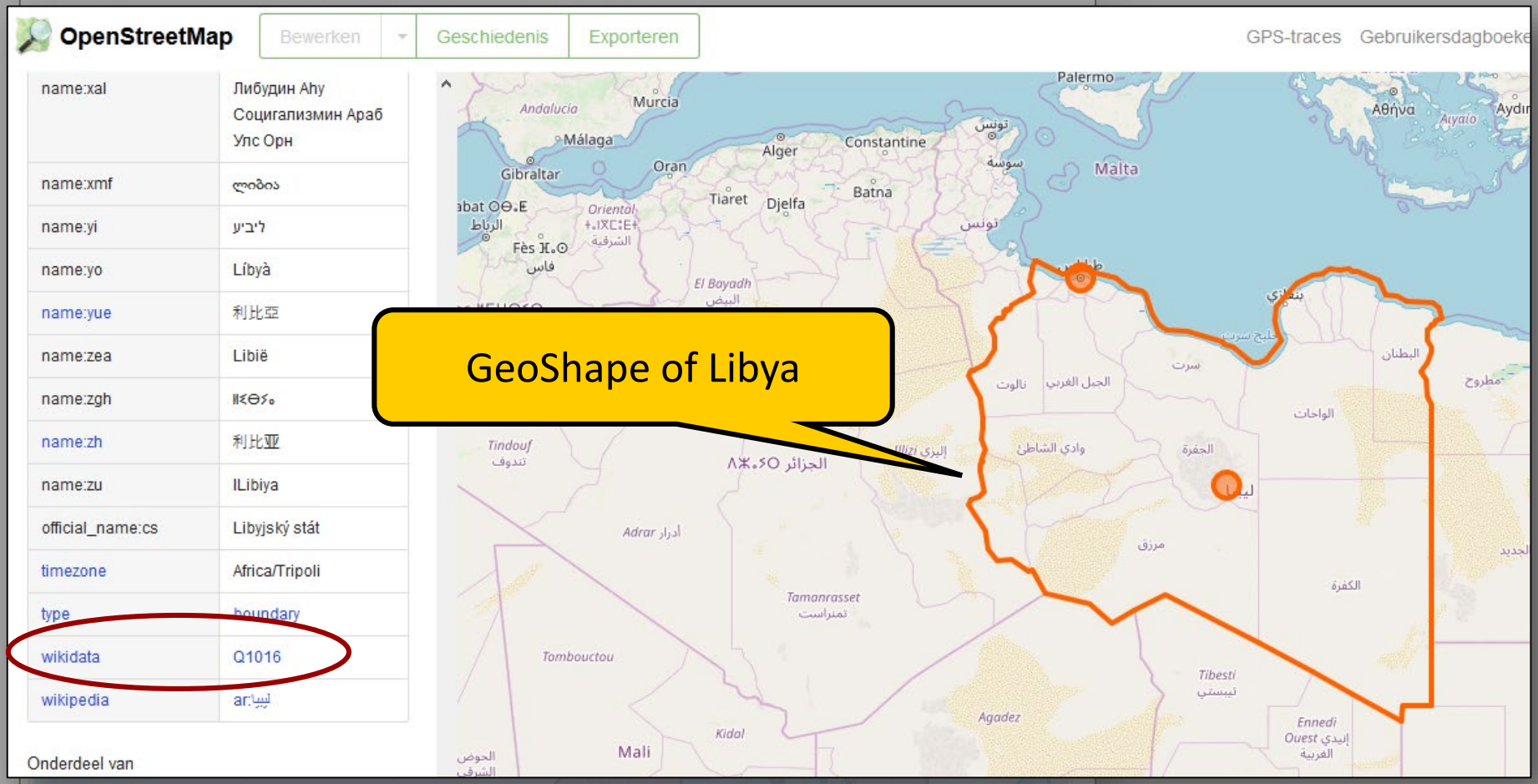
2.6) GeoShapes using SPARQL and OSM



https://www.mediawiki.org/wiki/Help:Extension:Kartographer#GeoShapes_via_Wikidata_Query

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

2.6) GeoShapes using SPARQL and OSM



https://www.openstreetmap.org/relation/192758#map=5/22.086/20.039

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

```
== Maps with geoshapes based on SPARQL queries in Wikidata ==
https://www.mediawiki.org/wiki/Help:Extension:Kartographer#GeoShapes_via_Wikidata_Query

<mapframe width=900 height=900 zoom=4 latitude=0 longitude=12  text="Countries in Africa, color coded by land area" align=left>
{
  "type": "ExternalData",
  "service": "geoshape",
  "query": "

#---- Begin SPARQL query // Make sure you only use single quotes (') in the query, otherwise you get a JSON parse error ---
SELECT DISTINCT
  ?id           #Wikidata Qid matching the geoshape on Open Street Map
  ?title        #Popup title when you click on the country
  ?description  #Description in the popup
  ?fill         #Color the geoshape is filled with
  ?stroke       #Color of the geoshape outline
WHERE {
  ?id wdt:P31 wd:Q6256; wdt:P30 wd:Q15. #Country in the continent of Africa
  ?id wdt:P2046 ?area. # Land area of the country

  ?id rdfs:label ?idLabel . FILTER(lang(?idLabel)='en') #only English labels

  BIND(?idLabel as ?title)
  BIND(CONCAT('This is a short description of ',STR(?title)) as ?description)

  # Fill & stroke colors depend on land area of country
  BIND(
    IF(?area < 5000, '#F0F8FF',
    IF(?area < 100000, '#B0E0E6',
    IF(?area < 300000, '#87CEEB',
    IF(?area < 800000, '#1E90FF',
    IF(?area < 1000000, '#4682B4',
    IF(?area < 1500000, '#6A5ACD',
    IF(?area < 2000000, '#8A2BE2',
    '#4B0082')))))) AS ?color)
  BIND(?color as ?fill)
  BIND(?color as ?stroke)
}
#---------- End SPARQL query ----------------

"}
</mapframe>
```

https://bit.ly/2YBxV4t

```
== Maps with geoshapes based on SPARQL queries in Wikidata ==
https://www.mediawiki.org/wiki/Help:Extension:Kartographer#GeoShapes_via_Wikidata_Query

<mapframe width=900 height=900 zoom=4 latitude=0 longitude=12  text="Countries in Africa, color coded by land area" align=left>
```

52 resultaten in 102 ms </> Code Downloaden Koppeling

id	title	description	fill	stroke
wd:Q912	Mali	This is a short description of Mali	#6A5ACD	#6A5ACD
wd:Q916	Angola	This is a short description of Angola	#6A5ACD	#6A5ACD
wd:Q79	Egypt	This is a short description of Egypt	#6A5ACD	#6A5ACD
wd:Q114	Kenya	This is a short description of Kenya	#1E90FF	#1E90FF
wd:Q924	Tanzania	This is a short description of Tanzania	#4682B4	#4682B4
wd:Q115	Ethiopia	This is a short description of Ethiopia	#6A5ACD	#6A5ACD
wd:Q117	Ghana	This is a short description of Ghana	#87CEEB	#87CEEB
wd:Q929	Central African Republic	This is a short description of Central African Republic	#1E90FF	#1E90FF
wd:Q948	Tunisia	This is a short description of Tunisia	#87CEEB	#87CEEB
wd:Q262	Algeria	This is a short description of Algeria	#4B0082	#4B0082
wd:Q945	Togo	This is a short description of Togo	#B0E0E6	#B0E0E6
wd:Q953	Zambia	This is a short description of Zambia	#1E90FF	#1E90FF
wd:Q258	South Africa	This is a short description of South Africa	#6A5ACD	#6A5ACD
wd:Q657	Chad	This is a short description of Chad	#6A5ACD	#6A5ACD
wd:Q954	Zimbabwe	This is a short description of Zimbabwe		
wd:Q958	South Sudan	This is a short description of South Sudan		
wd:Q962	Benin	This is a short description of Benin	#87CEEB	#87CEEB

https://bit.ly/2YBxV4t

```
"}
</mapframe>
```

```
== Maps with geoshapes based on SPARQL queries in Wikidata ==
https://www.mediawiki.org/wiki/Help:Extension:Kartographer#GeoShapes_via_Wikidata_Query

<mapframe width=900 height=900 zoom=4 latitude=0 longitude=12  text="Countries in Africa, color coded by land area" align=left>
{
  "type": "ExternalData",
  "service": "geoshape",
  "query": "

#---- Begin SPARQL query // Make sure you only use single quotes (') in the query, otherwise you get a JSON parse error ---
SELECT DISTINCT
  ?id           #Wikidata Qid mat
  ?title        #Popup
  ?description  #Description in t
  ?fill         #Color the geosha
  ?stroke       #Color of the geo
WHERE {
  ?id wdt:P31 wd:Q6256; wdt:P30 wd:Q15. #Country in the continent of Africa
  ?id wdt:P2046 ?area. # Land area of the country

  ?id rdfs:label ?idLabel . FILTER(lang(?idLabel)='en') #only English labels

  BIND(?idLabel as ?title)
  BIND(CONCAT('This is a short description of ',STR(?idLabel)) as ?description)

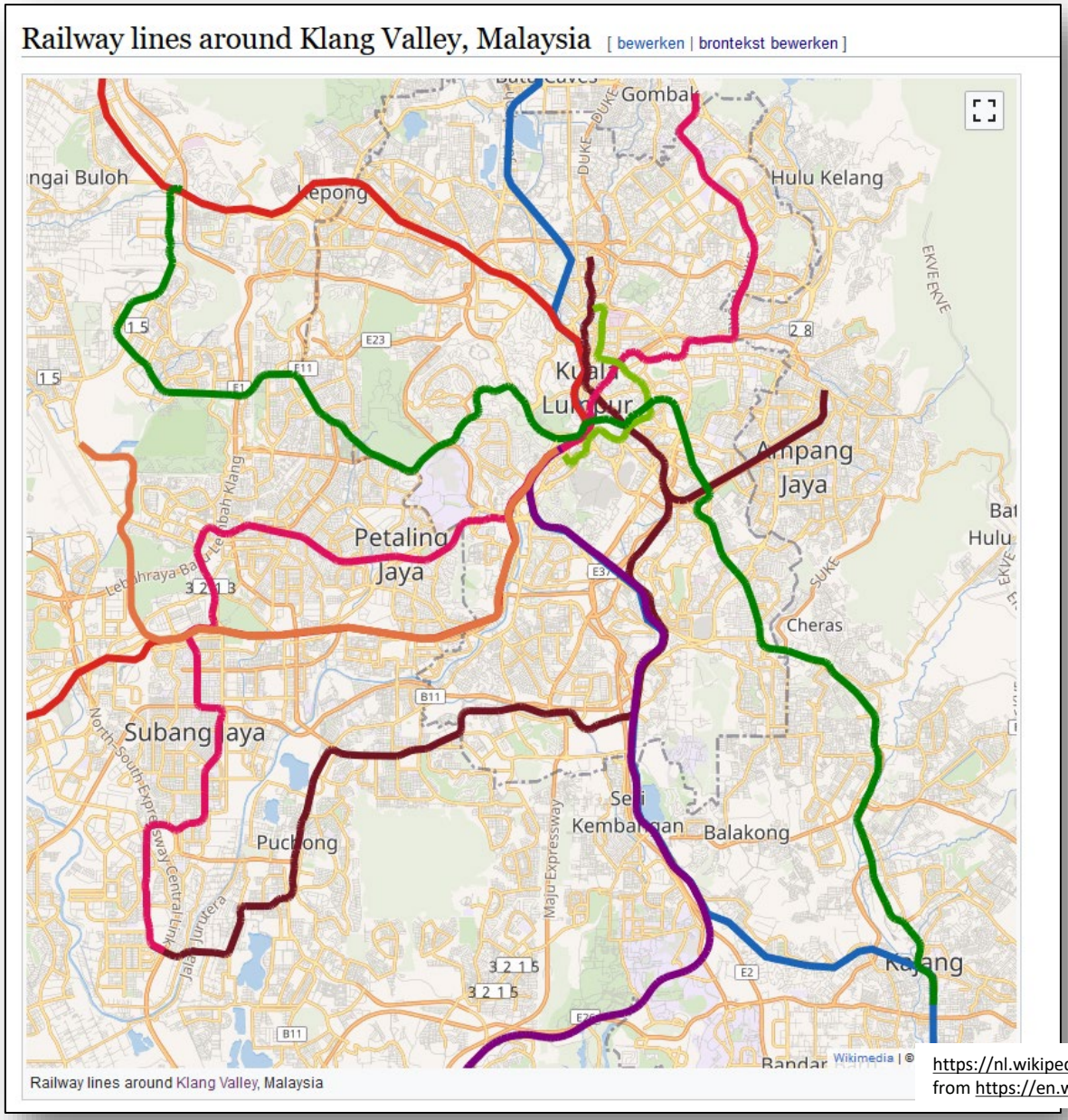
  # Fill & stroke colors depend on land area of countr
  BIND(
    IF(?area < 5000, '#F0F8FF',
    IF(?area < 100000, '#B0E0E6',
    IF(?area < 300000, '#87CEEB',
    IF(?area < 800000, '#1E90FF',
    IF(?area < 1000000, '#4682B4',
    IF(?area < 1500000, '#6A5ACD',
    IF(?area < 2000000, '#8A2BE2',
    '#4B0082')))))) AS ?color)
  BIND(?color as ?fill)
  BIND(?color as ?stroke)
}
#---------- End SPARQL query ----------------
```

Variables must have these names

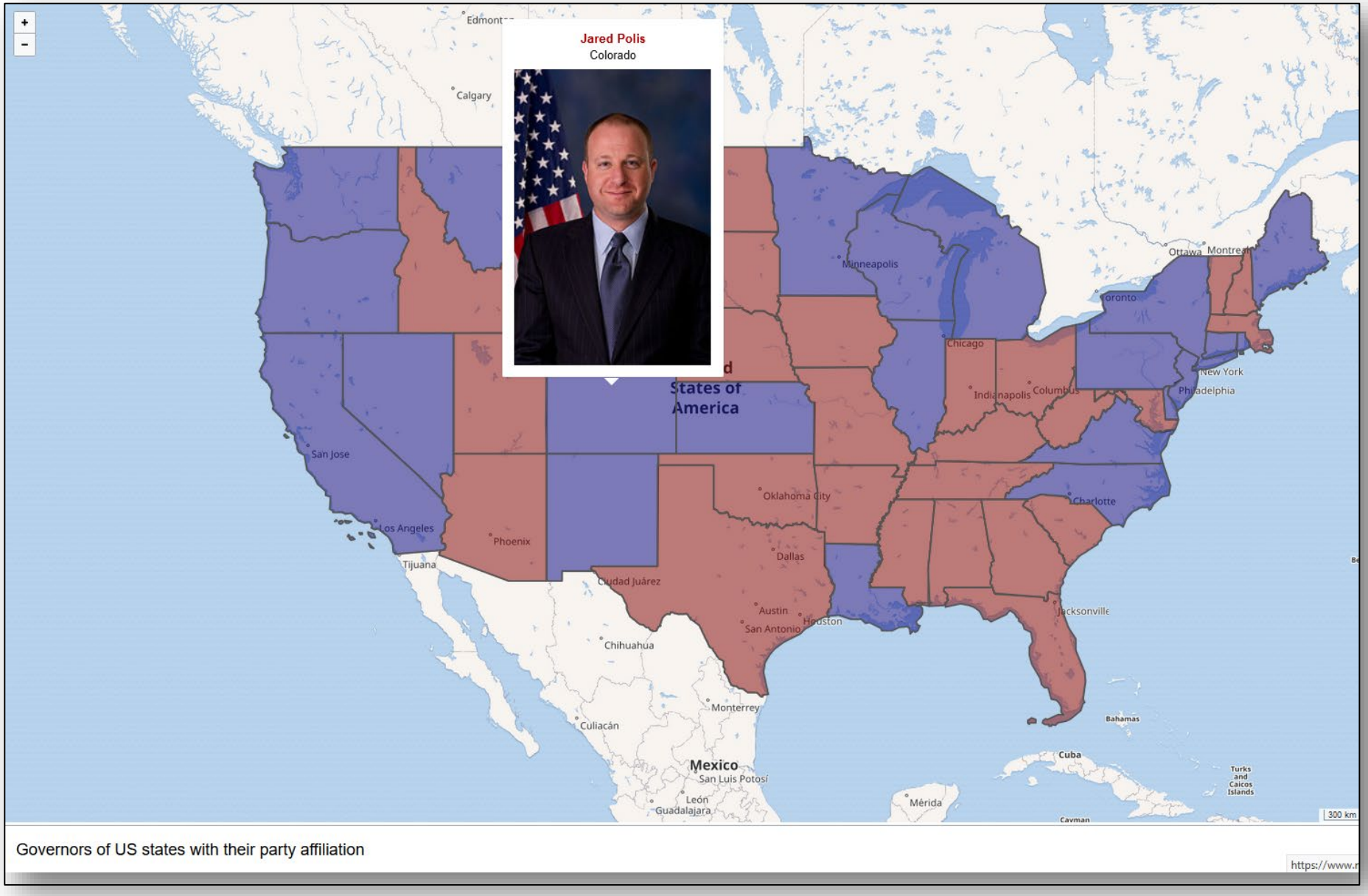
Only use single quotes, otherwise you'll get a JSON parse error

https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019

2.7) Other cool embedded maps



https://nl.wikipedia.org/wiki/Gebruiker:OlafJanssen/KladblokMapMakingWorkshopWM2019, from https://en.wikipedia.org/wiki/User:*angys*/sandbox

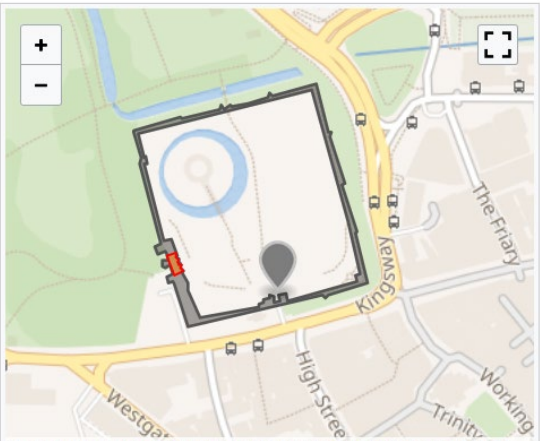


https://www.mediawiki.org/wiki/Help:Extension:Kartographer#/map/4

GeoShapes [edit]

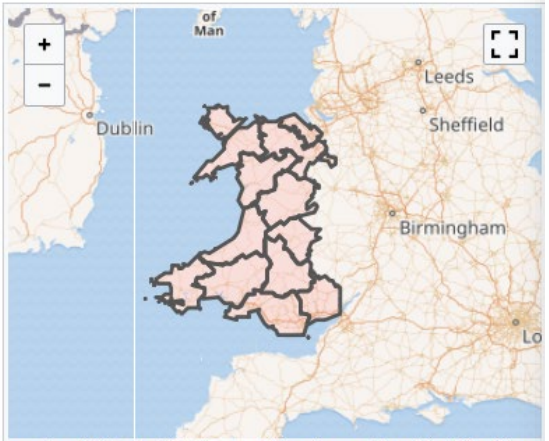
Commons: National Library of Wales.map, Wikimedia maps | Map data © Ope...

National Library of Wales collections



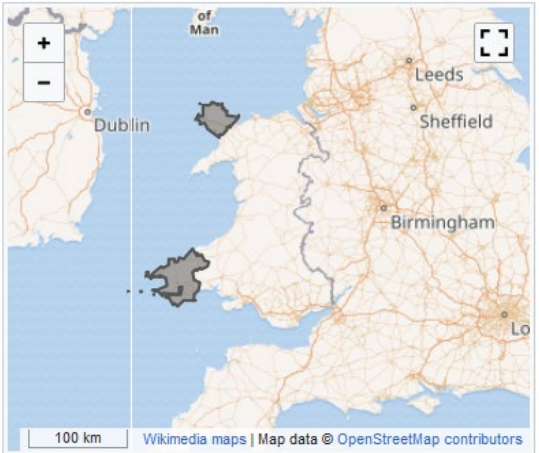
media Commons: Cardiff Castle.map, Wikimedia maps | Map data © OpenSt...

Cardiff Castle with library



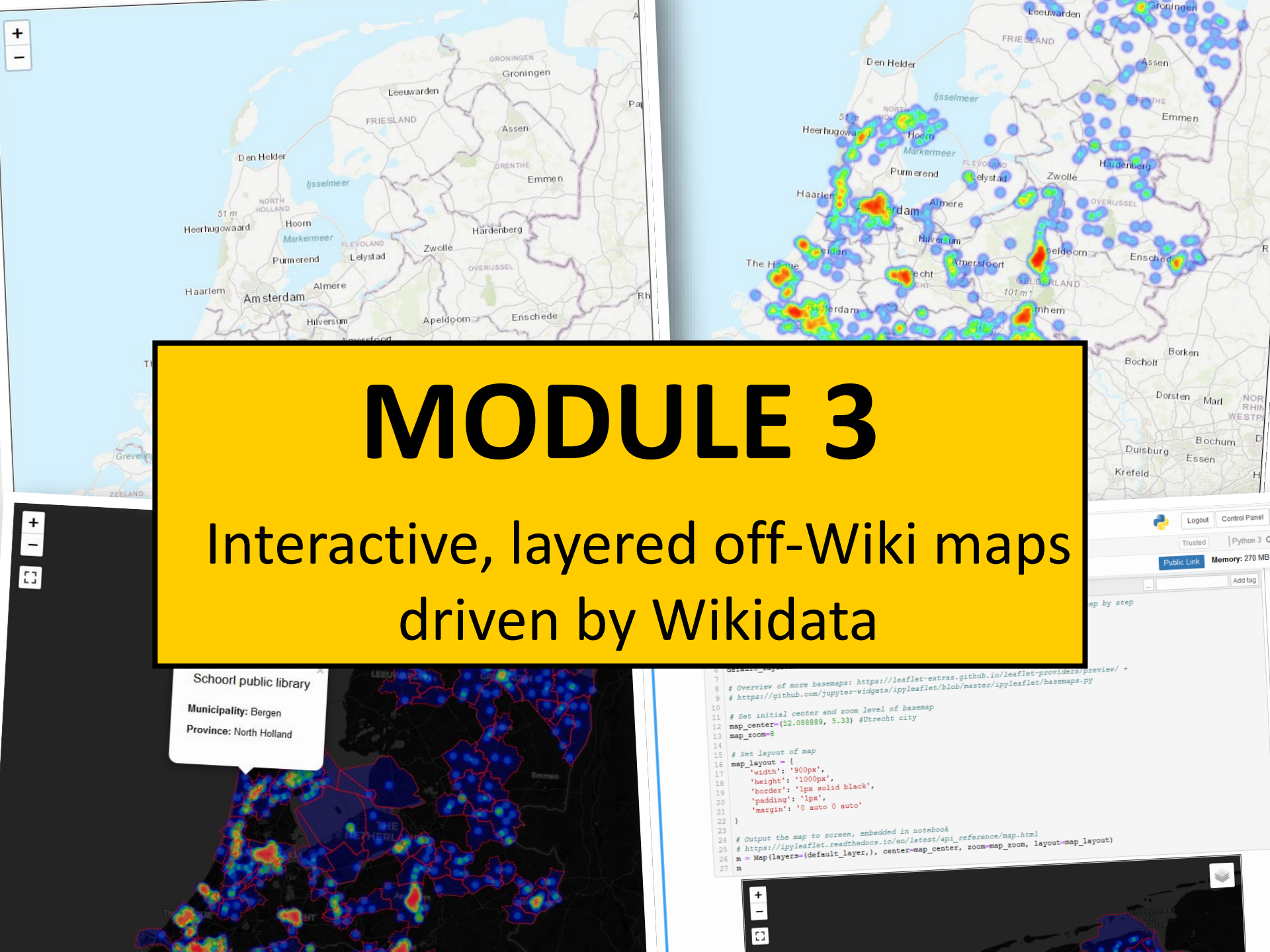
counties of Wales/Denbighshire.map, Wikimedia maps | Map data © OpenStr...

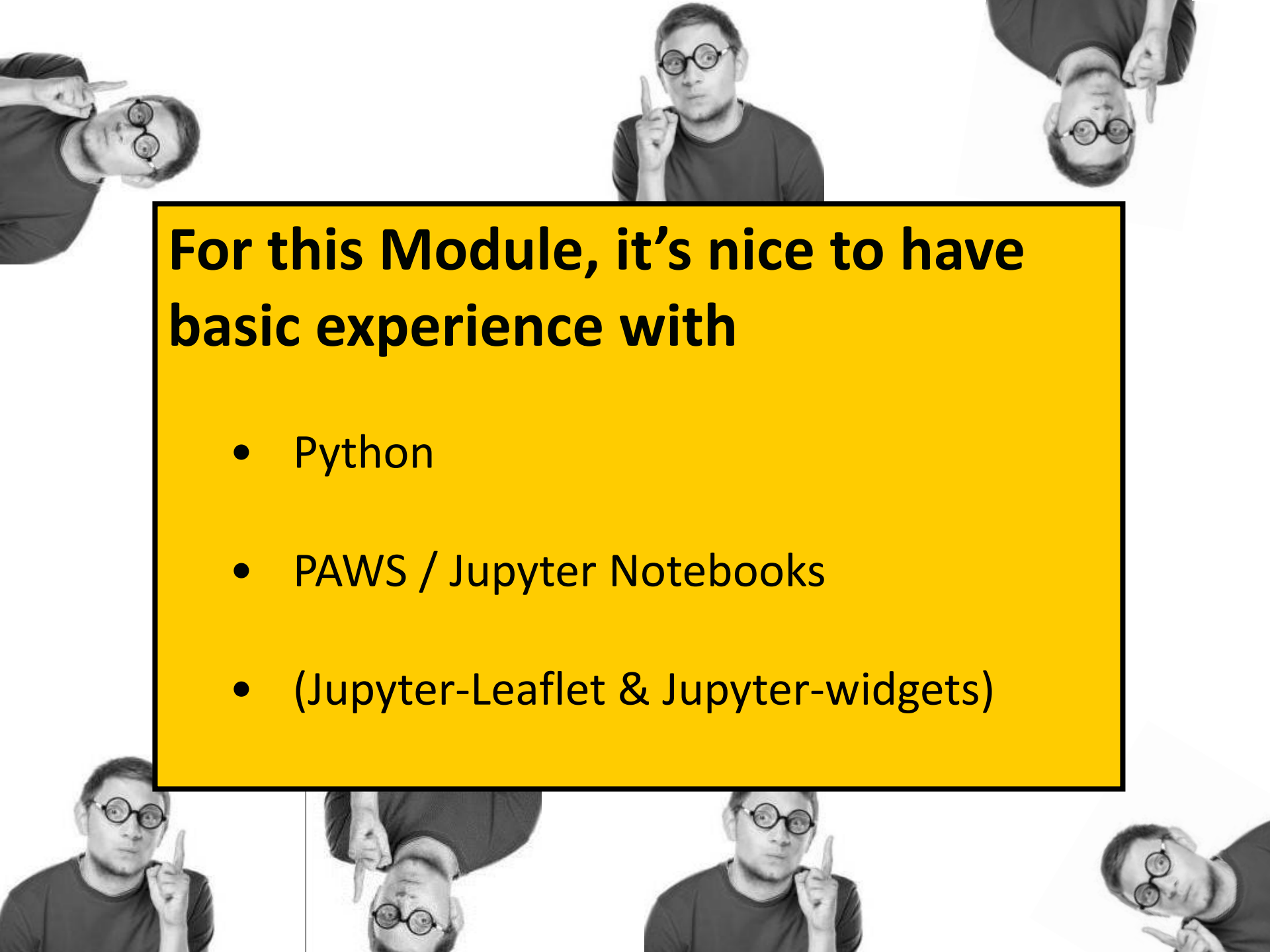
Historic counties of Wales



Anglesey and Pembrokeshire geomask

https://www.wikidata.org/wiki/User:Sic19#GeoShapes

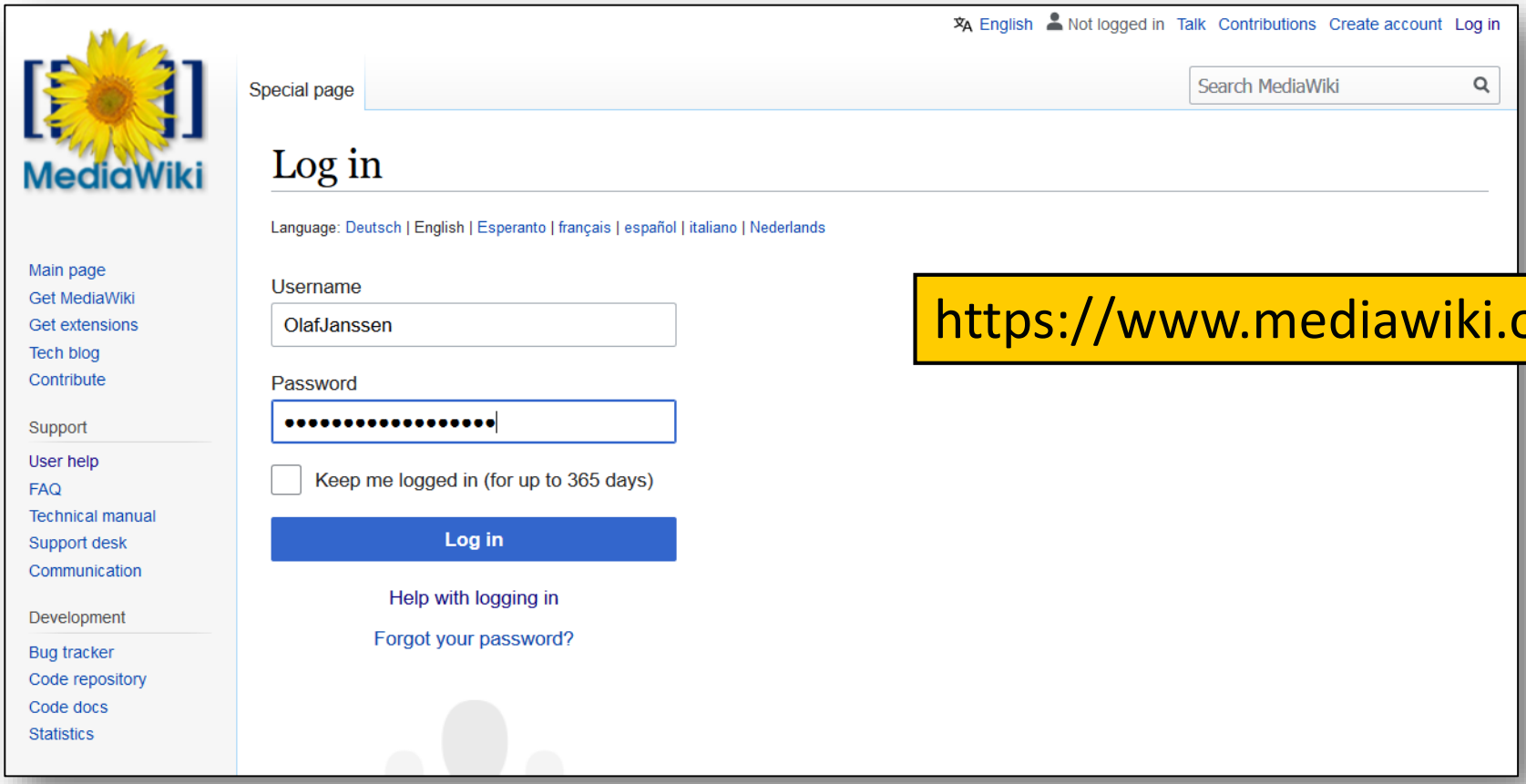

MODULE 3
Interactive, layered off-Wiki maps driven by Wikidata
Schoorl public library
Municipality: Bergen
Province: North Holland



For this Module, it's nice to have basic experience with

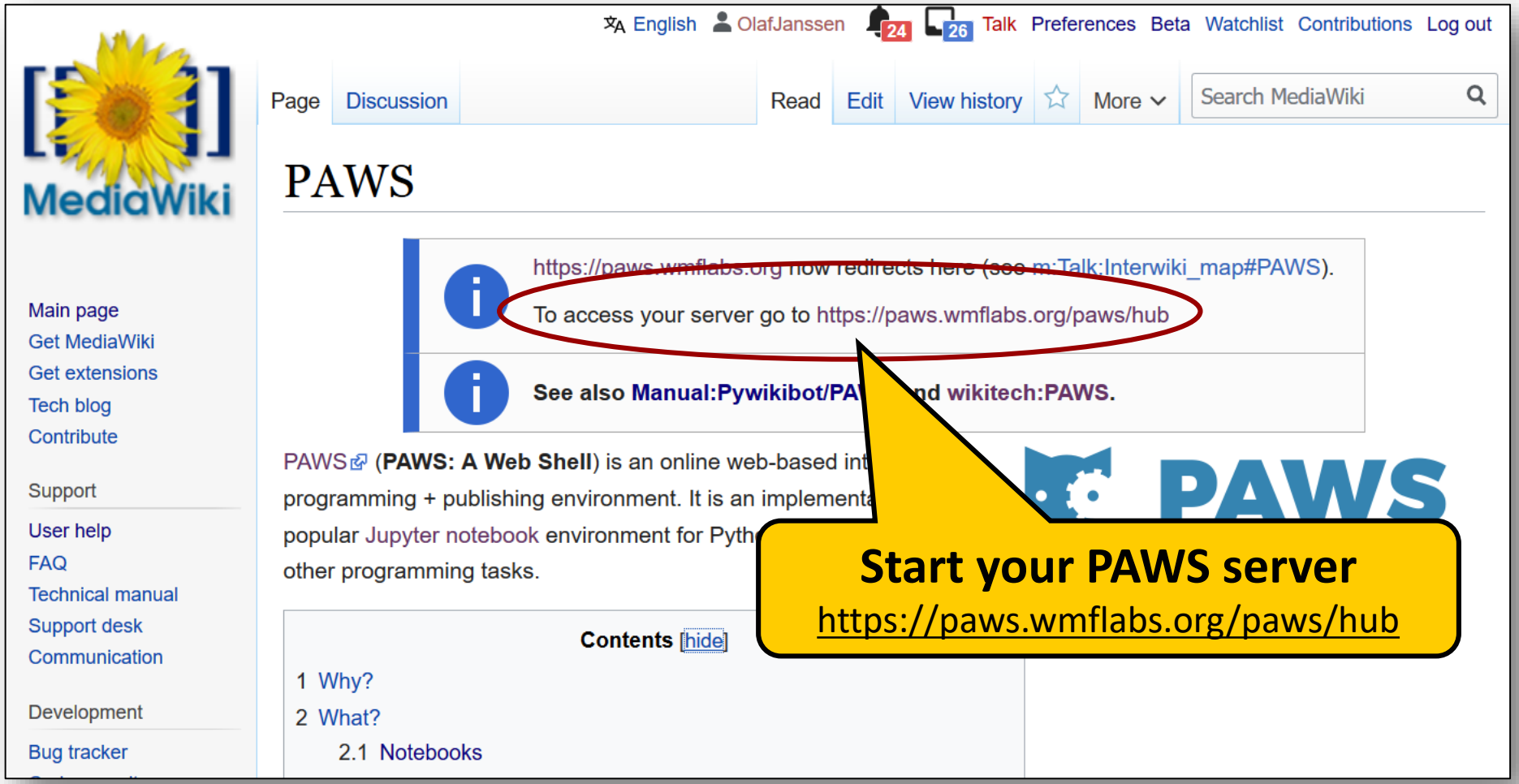
- Python
- PAWS / Jupyter Notebooks
- (Jupyter-Leaflet & Jupyter-widgets)

MediaWiki account + login

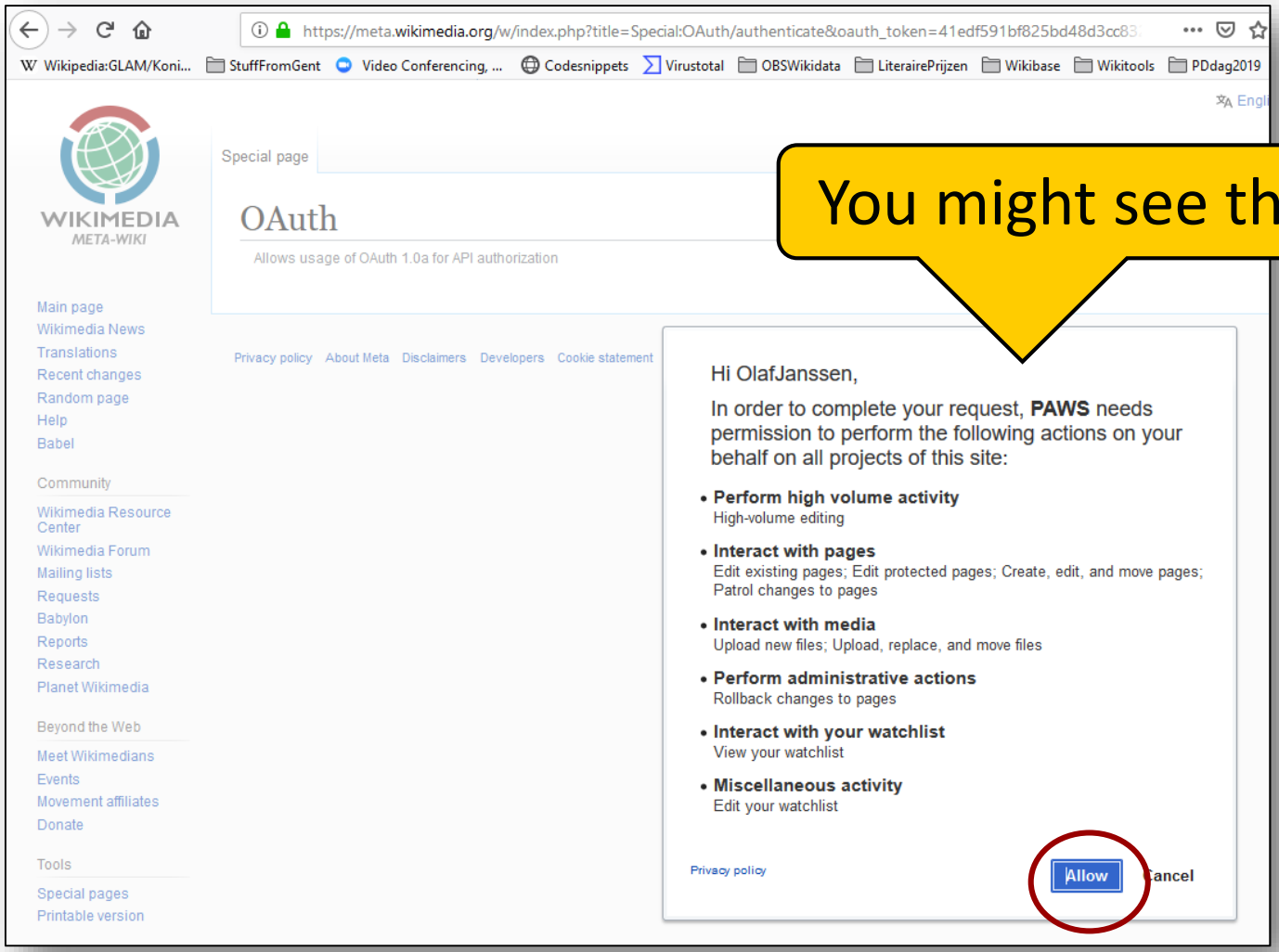


https://www.mediawiki.org

https://www.mediawiki.org/wiki/PAWS

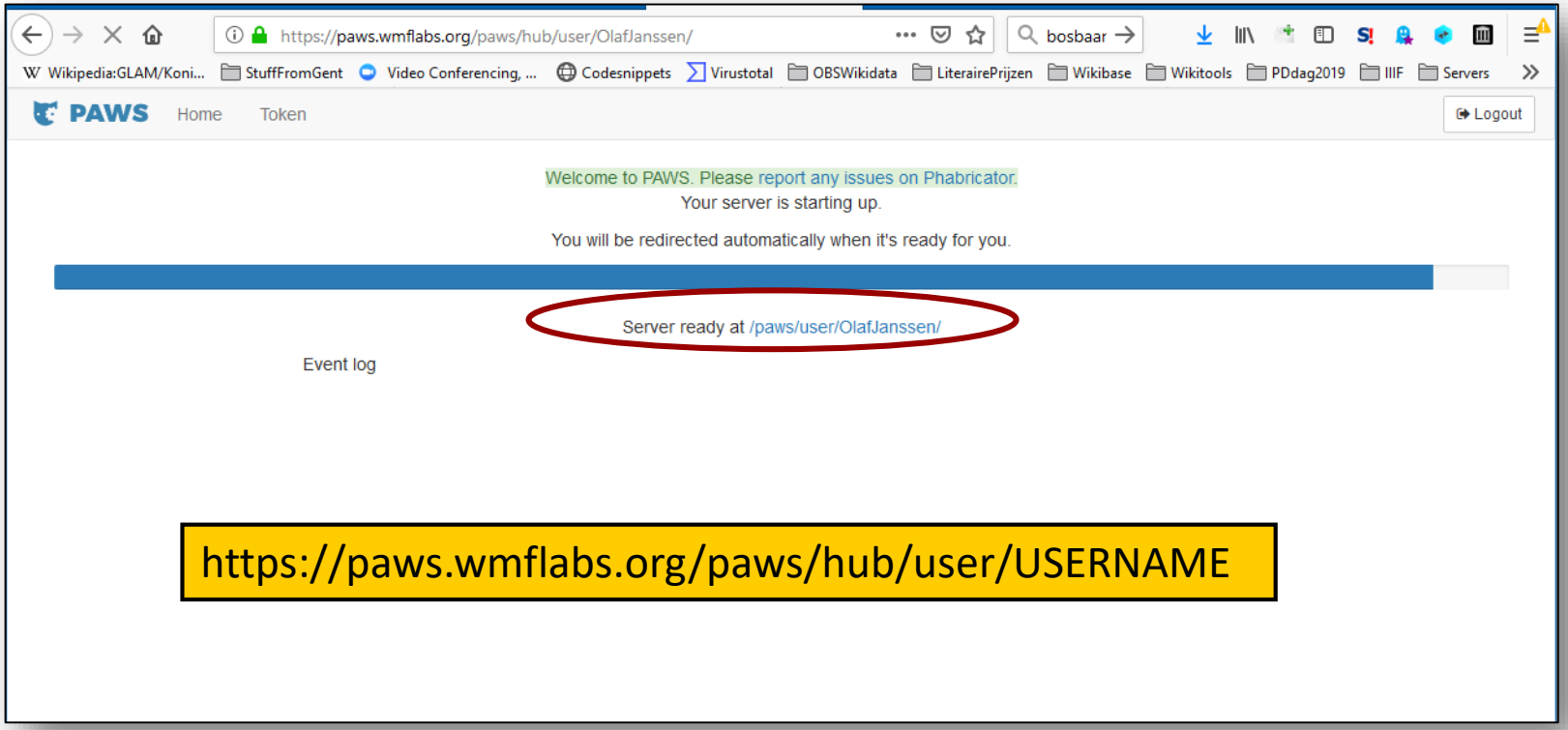


Starting your PAWS server



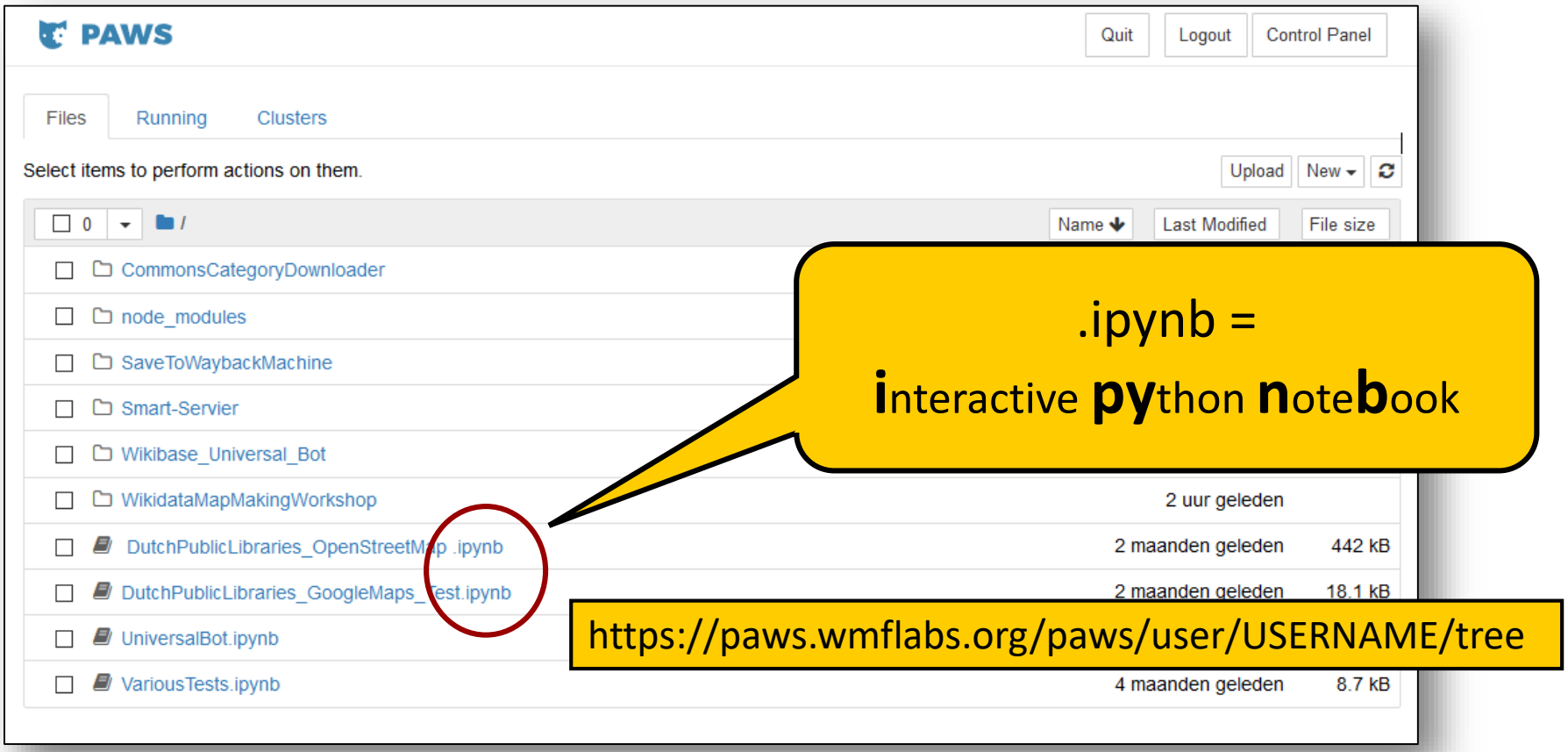
You might see this screen…

Starting your PAWS server



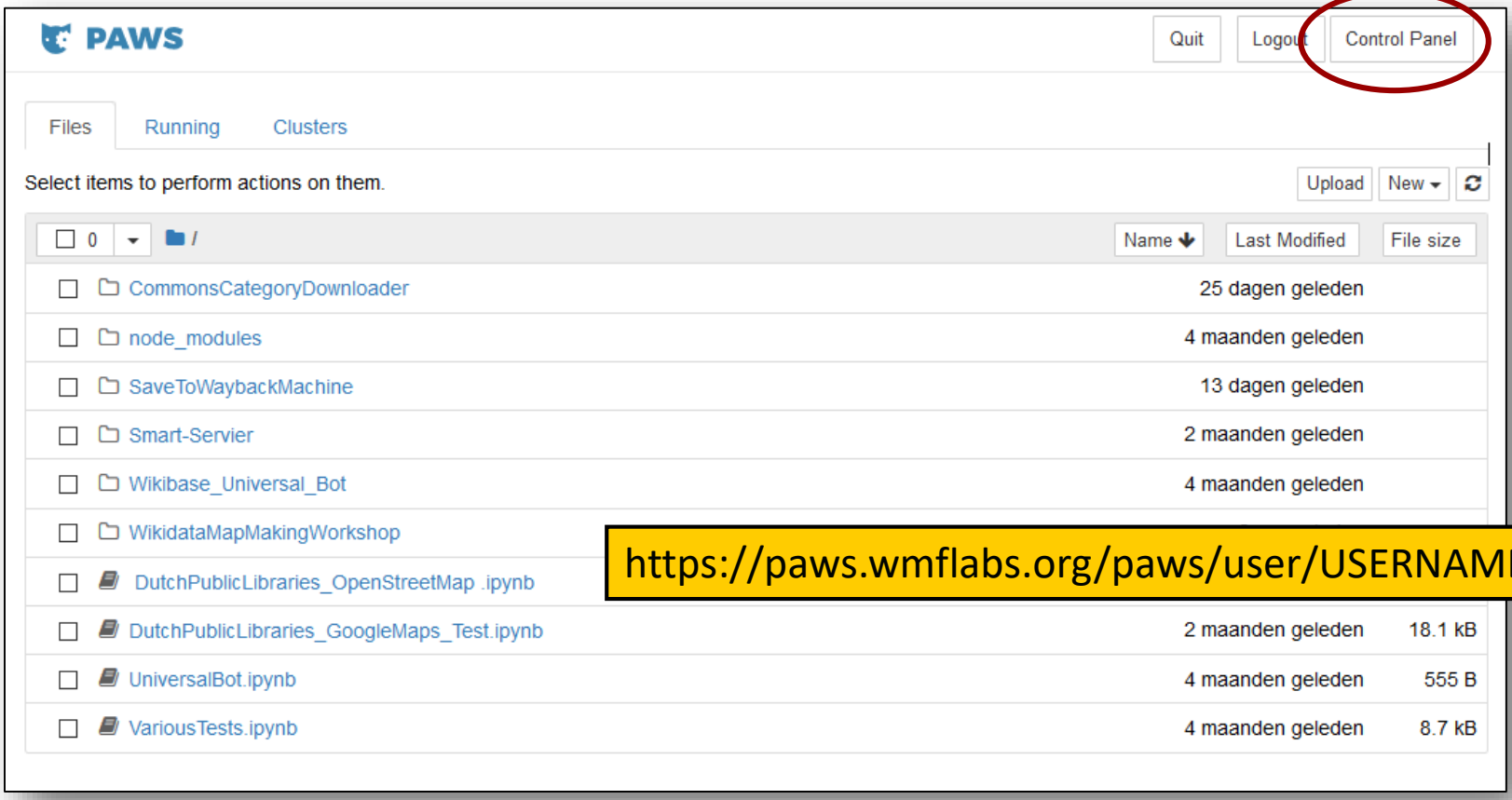
https://paws.wmflabs.org/paws/hub/user/USERNAME

Your PAWS server running



- https://en.wikipedia.org/wiki/Project_Jupyter#Jupyter_Notebook
- https://realpython.com/jupyter-notebook-introduction

Stopping your PAWS server



https://paws.wmflabs.org/paws/user/USERNAME/tree

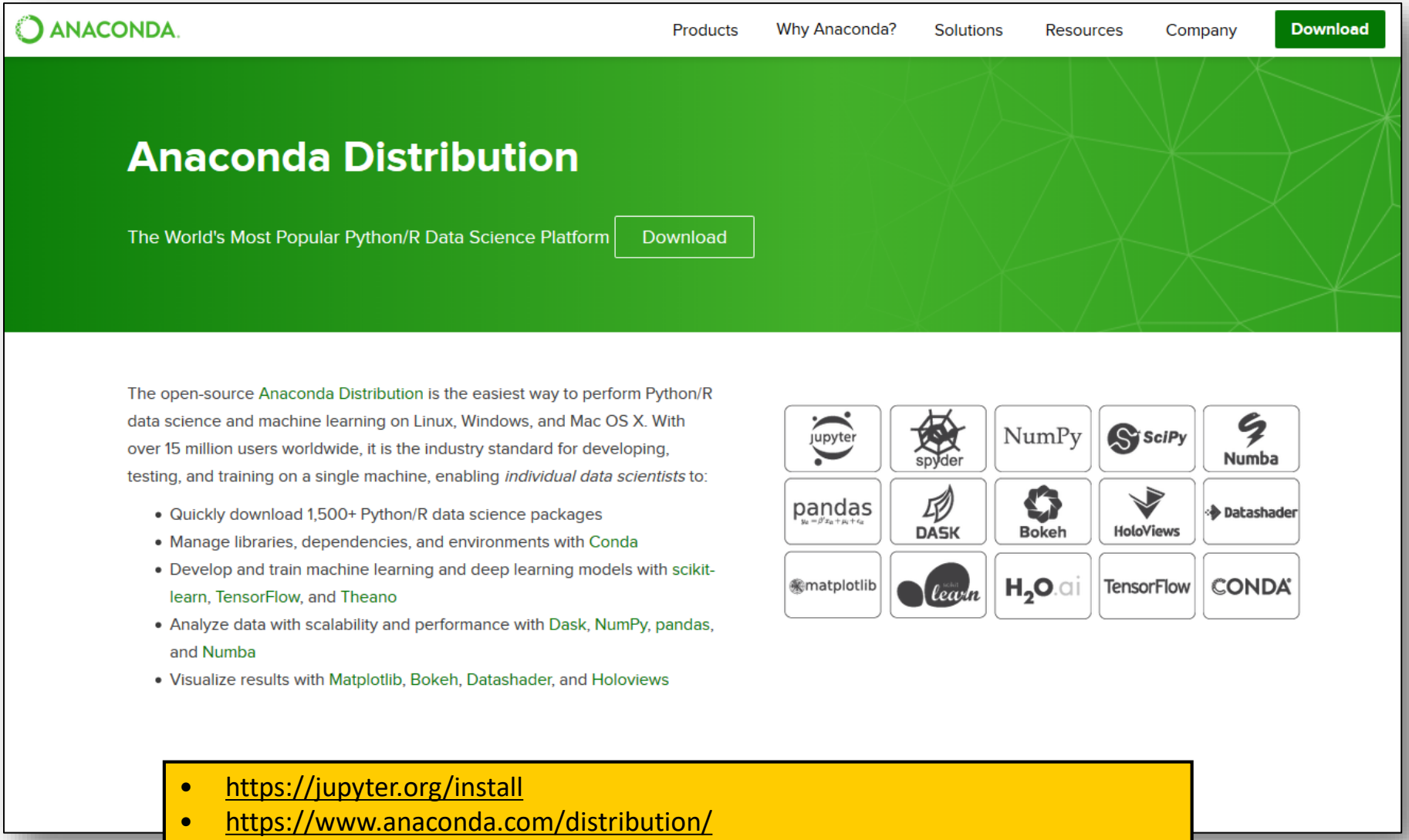
Stopping your PAWS server

https://paws.wmflabs.org/paws/hub/home

Your PAWS public folder (even when server is offline)

https://**paws-public.**wmflabs.org/paws-public/User:USERNAME

PAWS alternative: local Notebook installation

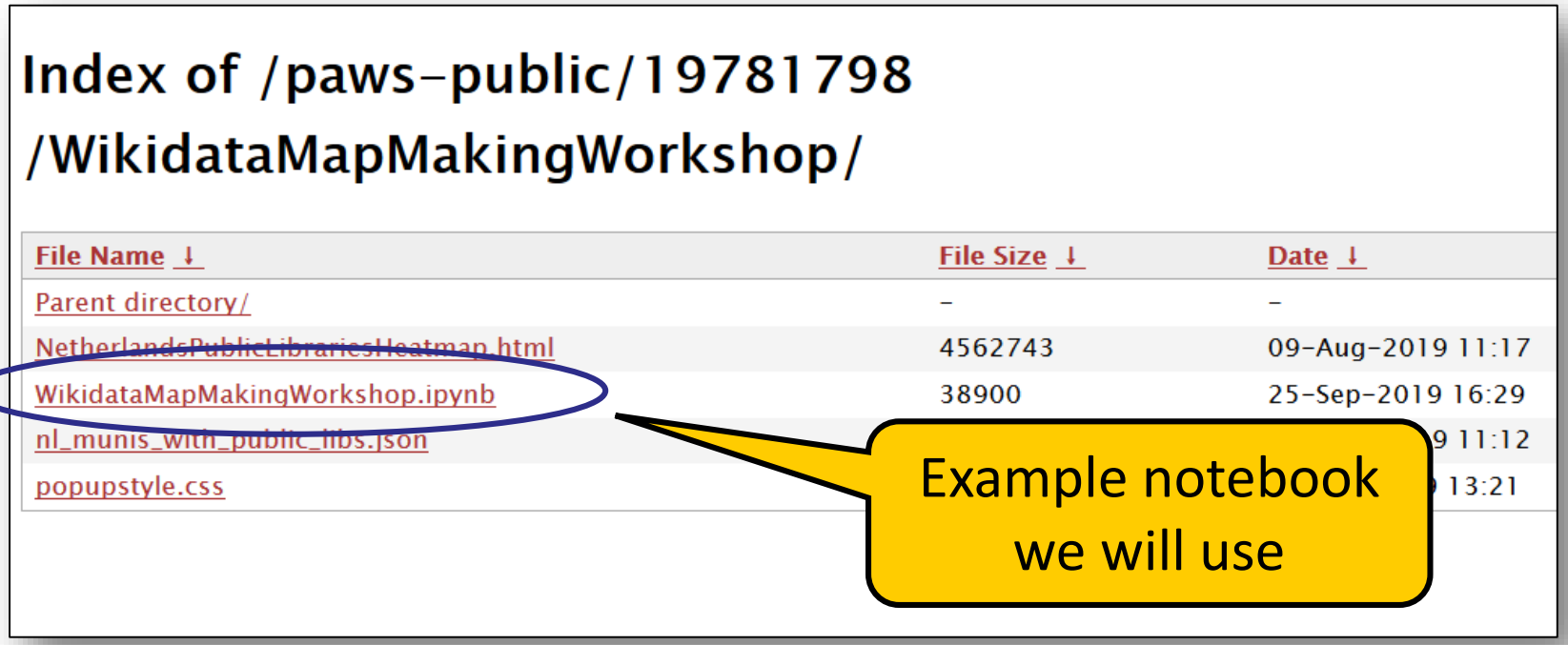


- https://jupyter.org/install
- https://www.anaconda.com/distribution/
- https://dataiseasy.com/2019/03/how-to-install-anaconda-and-jupyter-notebook

Go to public PAWS folder of **User:OlafJanssen**

https://paws-public.wmflabs.org/paws-public/User:OlafJanssen

In folder ‘WikidataMapMakingWorkshop’



https://paws-public.wmflabs.org/paws-public/User:OlafJanssen/WikidataMapMakingWorkshop/WikidataMapMakingWorkshop.ipynb

This notebook in **raw format (json)**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    "# Building a stand-alone off-Wiki layered map using Wikidata & SPARQL\n",
    "\n",
    "This Jupyter notebook shows you step by step **how to make a Wikidata-driven layered map that can be used off-Wiki**.\n",
    "\n",
    "It is part of Module 3 of the map making workshop [From Wikidata to interactive off-Wiki maps in three steps](https://github.com/ookgezelli
/WikidataMapMakingWorkshop)\n",
    "\n",
    "See https://github.com/ookgezellig/WikidataMapMakingWorkshop/blob/master/OutlineAndNotes.md for the full layout of this workshop\n",
    "\n",
    "This notebook is publically available at\n",
    "* https://paws-public.wmflabs.org/paws-public/User:OlafJanssen/WikidataMapMakingWorkshop.ipynb (and in [raw format](https://paws-public.wmf
/paws-public/User:OlafJanssen/WikidataMapMakingWorkshop.ipynb?format=raw))\n",
    "* https://github.com/ookgezellig/WikidataMapMakingWorkshop/blob/master/module3stuff/WikidataMapMakingWorkshop.ipynb (and in [raw format]
(https://raw.githubusercontent.com/ookgezellig/WikidataMapMakingWorkshop/master/module3stuff/WikidataMapMakingWorkshop.ipynb)) \n"
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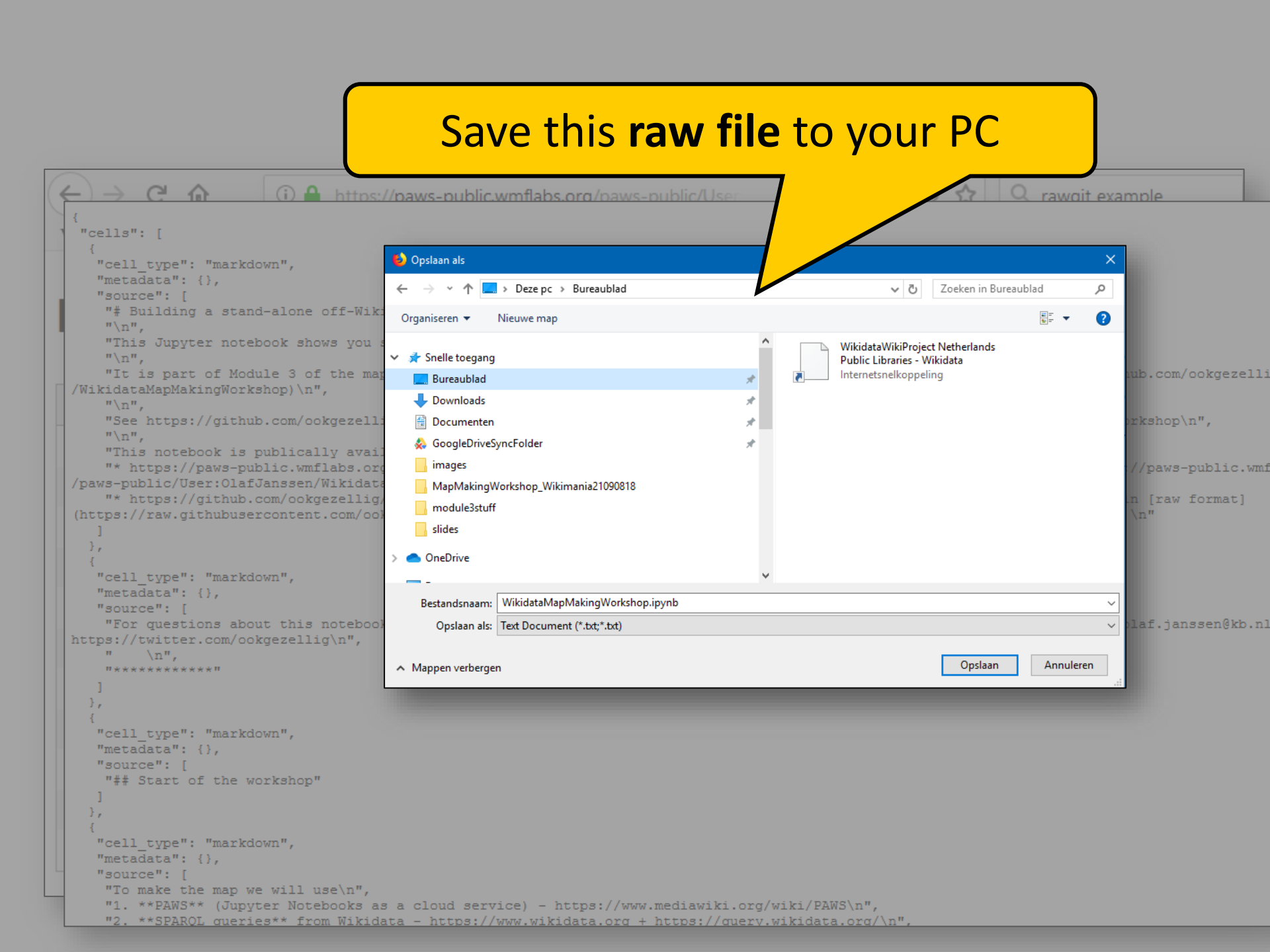
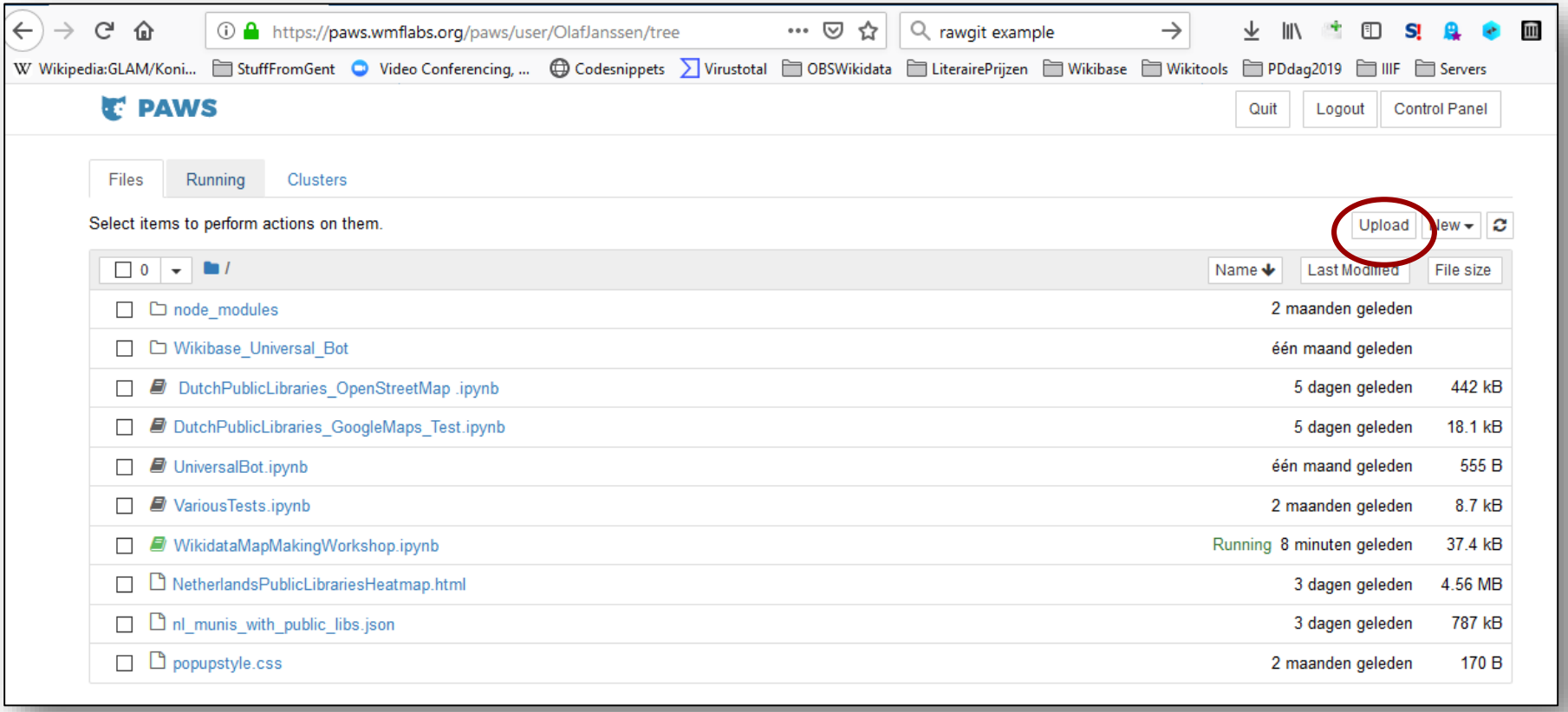
  {
   "cell_type": "markdown",
   "metadata": {},
   "source": [
    "For questions about this notebook, contact [Olaf Janssen](https://www.wikidata.org/wiki/User:OlafJanssen) on Wikidata // olaf.janssen@kb.nl
https://twitter.com/ookgezellig\n",
    "    \n",
    "************"
   ]
  },
  {
   "cell
   "meta
   "sou
    "##
   ]
  },
  {
   "cell
   "metadata": {},
   "source": [
    "To make the map we will use\n",
    "1. **PAWS** (Jupyter Notebooks as a cloud service) - https://www.mediawiki.org/wiki/PAWS\n",
    "2. **SPARQL queries** from Wikidata - https://www.wikidata.org + https://query.wikidata.org/\n",
```


https://paws-public.wmflabs.org/paws-public/User:OlafJanssen/WikidataMapMakingWorkshop/WikidataMapMakingWorkshop.ipynb **?format=raw**

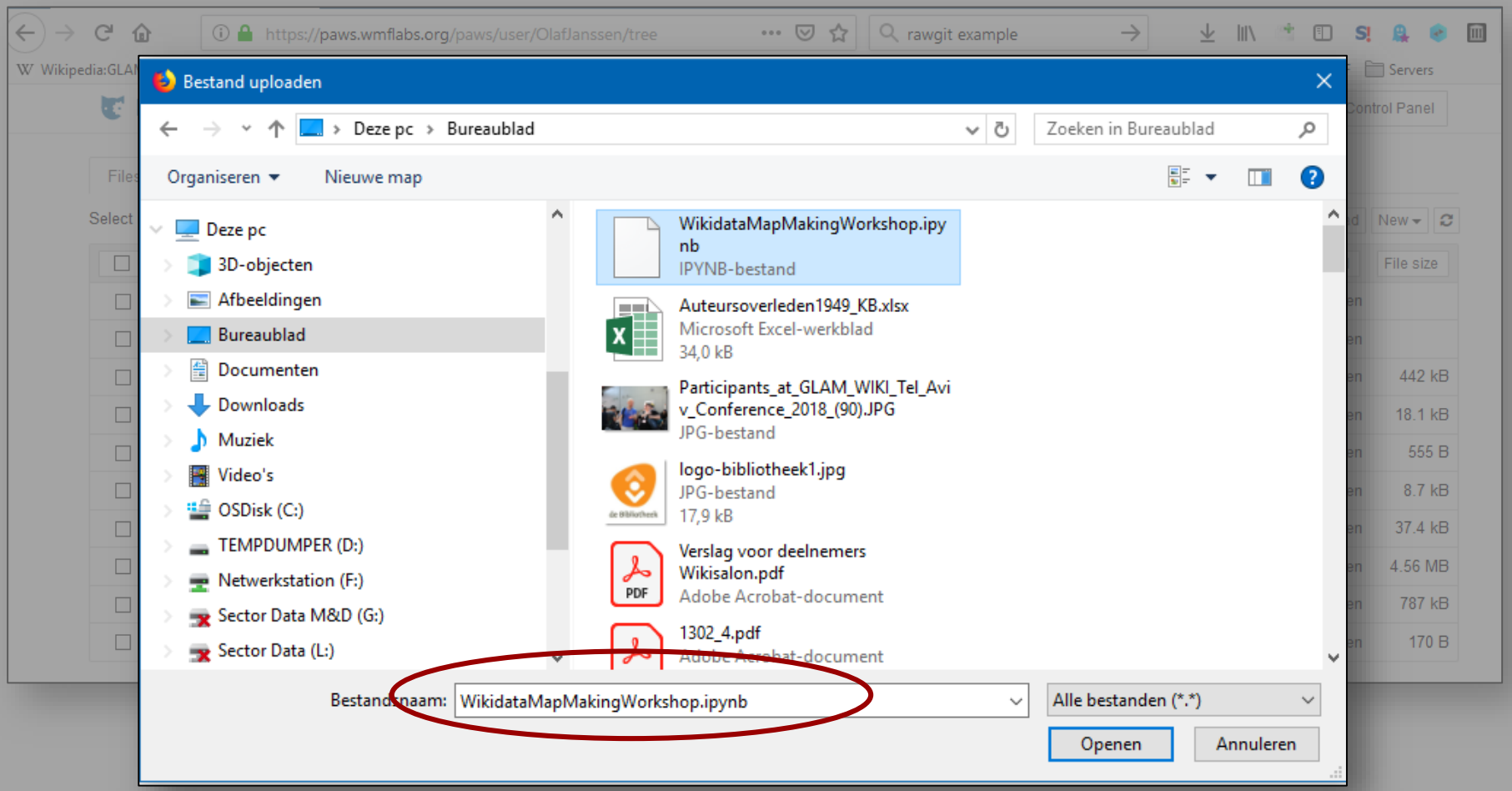

Save this **raw file** to your PC
Opslaan als
Deze pc › Bureaublad
Zoeken in Bureaublad
Organiseren
Nieuwe map
Snelle toegang
Bureaublad
Downloads
Documenten
GoogleDriveSyncFolder
images
MapMakingWorkshop_Wikimania21090818
module3stuff
slides
OneDrive
WikidataWikiProject Netherlands
Public Libraries - Wikidata
Internetsnelkoppeling
Bestandsnaam: WikidataMapMakingWorkshop.ipynb
Opslaan als: Text Document (*.txt;*.txt)
Mappen verbergen
Opslaan
Annuleren

… and upload it to *your* PAWS server

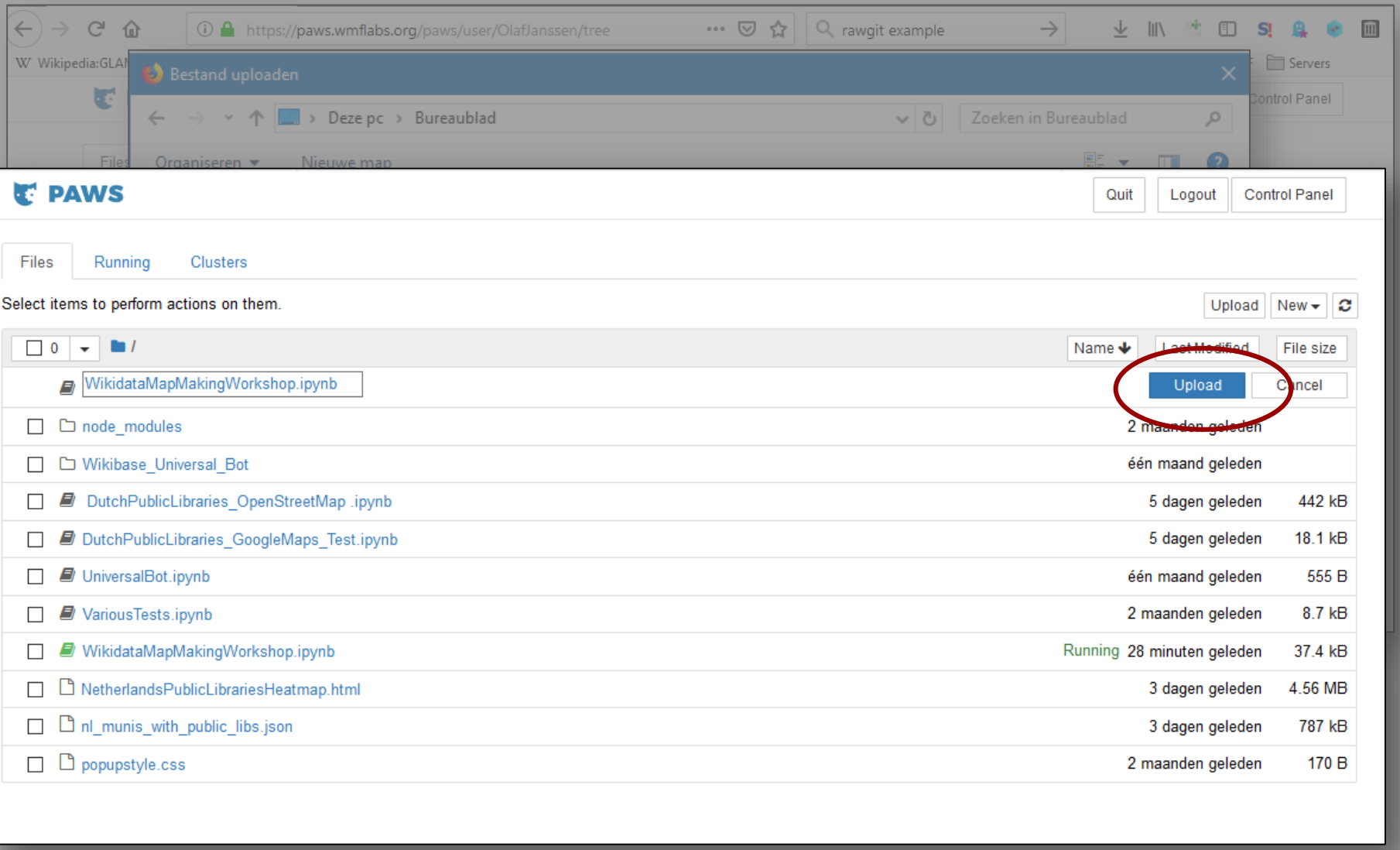


https://paws.wmflabs.org/paws/user/USERNAME/tree

… and upload it to your PAWS server



… and upload it to your PAWS server



Notebook on your own PAWS server to play with

PAWS WikidataMapMakingWorkshop Last Checkpoint: afgelopen maandag om 11:27 (unsaved changes) Logout Control Panel

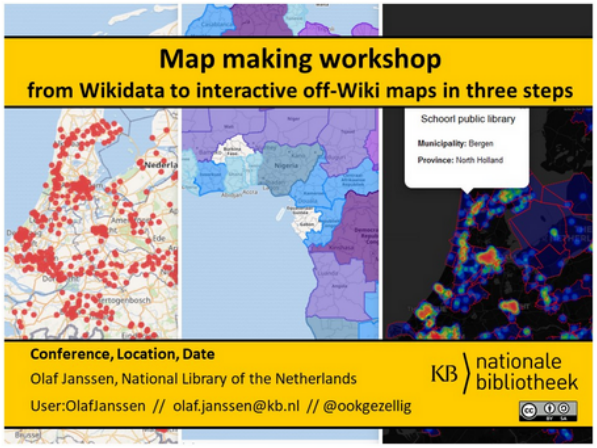
File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3

Run Markdown Public Link **Memory:** 132 MB

Building a stand-alone off-Wiki layered map using Wikidata & SPARQL

This Jupyter notebook shows you step by step **how to make a Wikidata-driven layered map that can be used off-Wiki**.

It is part of Module 3 of the map making workshop From Wikidata to interactive off-Wiki maps in three steps



For more context to this workshop you can check the

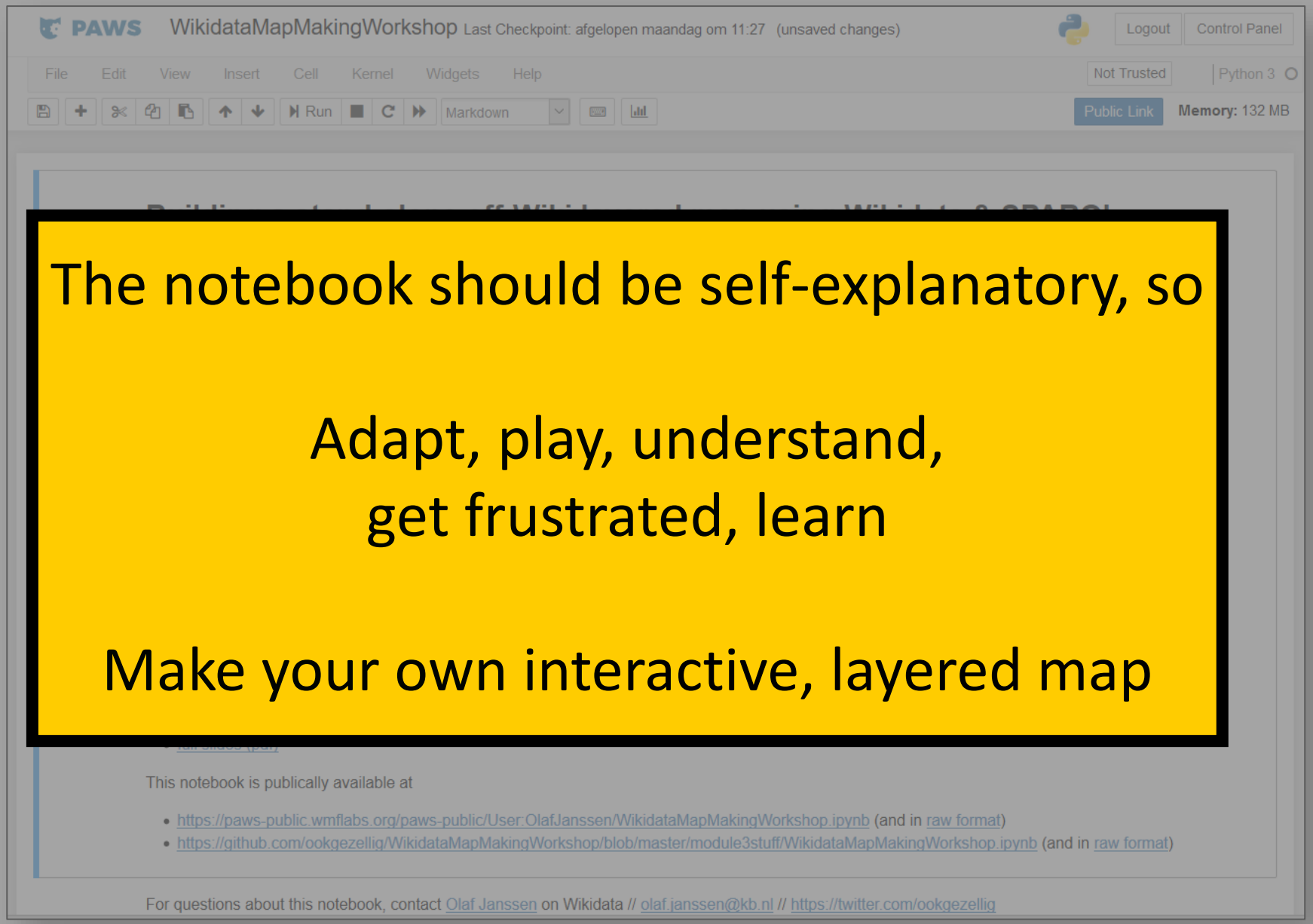
- full layout, and
- full slides (pdf)

This notebook is publically available at

https://paws.wmflabs.org/paws/user/USERNAME/notebooks/WikidataMapMakingWorkshop.ipynb

For questions about this notebook, contact Olaf Janssen on Wikidata // olaf.janssen@kb.nl // https://twitter.com/ookgezellig

Notebook on your own PAWS server to play with



The notebook should be self-explanatory, so

Adapt, play, understand,
get frustrated, learn

Make your own interactive, layered map

Exporting your map to stand-alone, off-Wiki HTML page

As a final step for this workshop, we want to export the map to a (stand-alone, off-Wiki) HTML page that can be viewed in a browser.

https://ipywidgets.readthedocs.io/en/latest/embedding.html#python-interface

The map above is available at http://ookgezellig.github.io/WikidataMapMakingWorkshop/NetherlandsPublicLibrariesHeatmap.html

In [ ]:

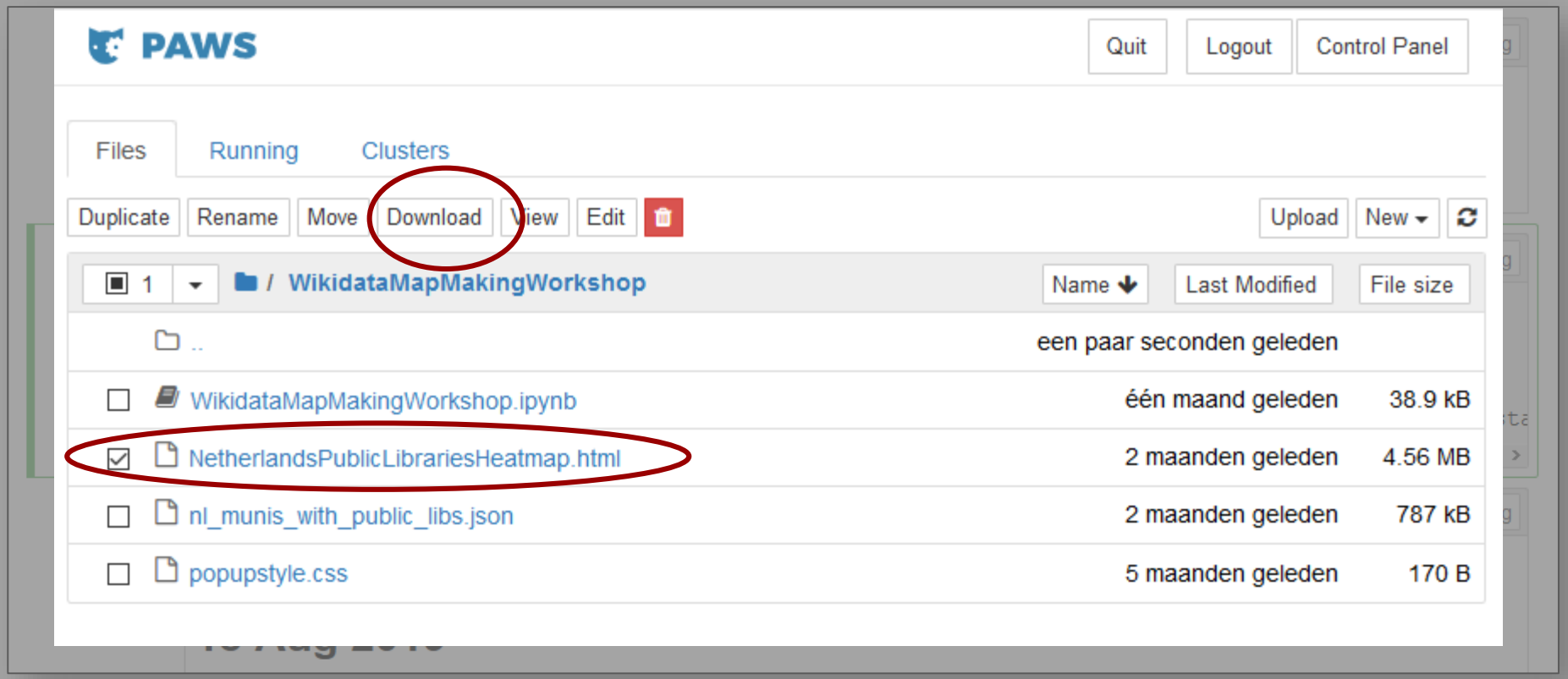
```
# Export the map to html file
# https://ipywidgets.readthedocs.io/en/latest/embedding.html#python-interface
# The addition of 'state=dependency_state([m])' keeps the html file growing too large

embed_minimal_html('NetherlandsPublicLibrariesHeatmap.html', views=[m], state=dependency_sta

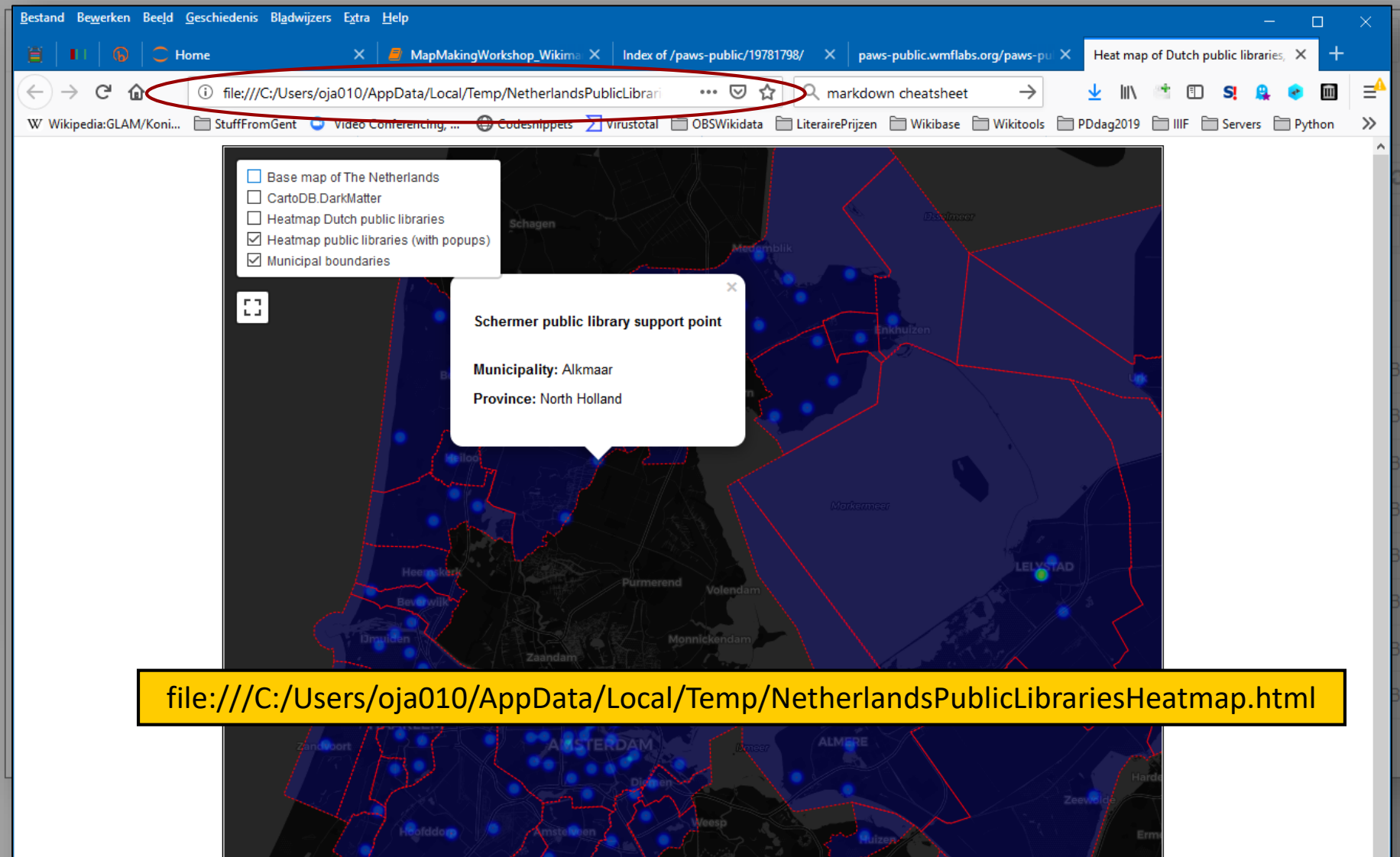
# This map is available at http://ookgezellig.github.io/WikidataMapMakingWorkshop/Netherlan
```

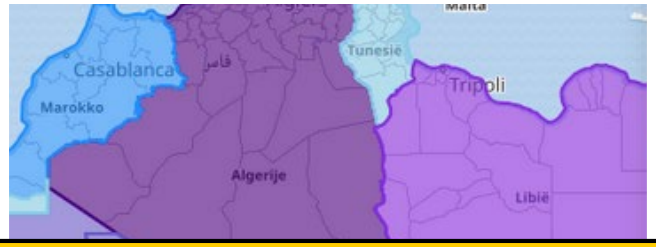
This is the end of the workshop

Exporting your map to stand-alone, off-Wiki HTML page



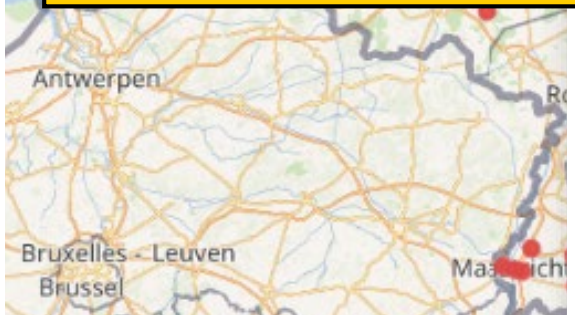
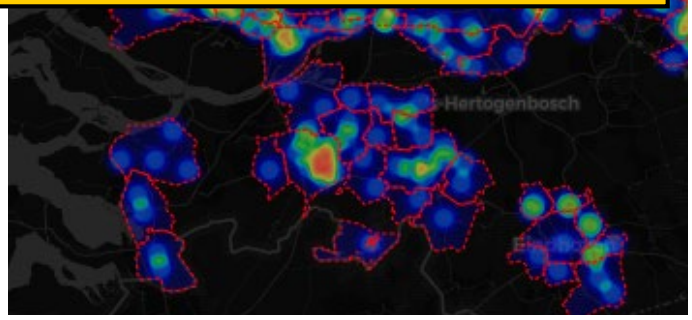
Exporting your map to stand-alone, off-Wiki HTML page





THANKS!!!

Let me know your
feedback on this workshop

In person // User:OlafJanssen // olaf.janssen@kb.nl // @ookgezellig

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