OpenStreetMap workshop

Casper Kersten & Just van den Broecke

Middelburg

2023-09-13

https://osmws.osgeo.nl/

Ondersteunende website voor deze workshop

osmws.osgeo.nl

content: https://github.com/osgeonl/osmws.osgeo.nl

Iedereen gebruikt OpenStreetMap

Overzicht

Principes van OSM → Het OSM datamodel → Gereedschappen → De organisatie achter OSM → Zelf aan de slag!

De richtlijnen van OpenStreetMap

Wat doen we en waarom doen we het zo?

- Verifieerbaarheid: breng in kaart wat je kunt zien
- Kies de tags die het beste passen
- Je bent mede-eigenaar van de kaart
- Kopieer niet zomaar van andere kaarten

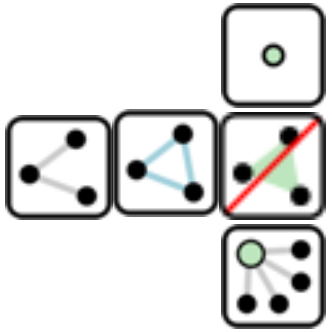
- Heb plezier!

Het datamodel van OpenStreetMap

Andere GIS

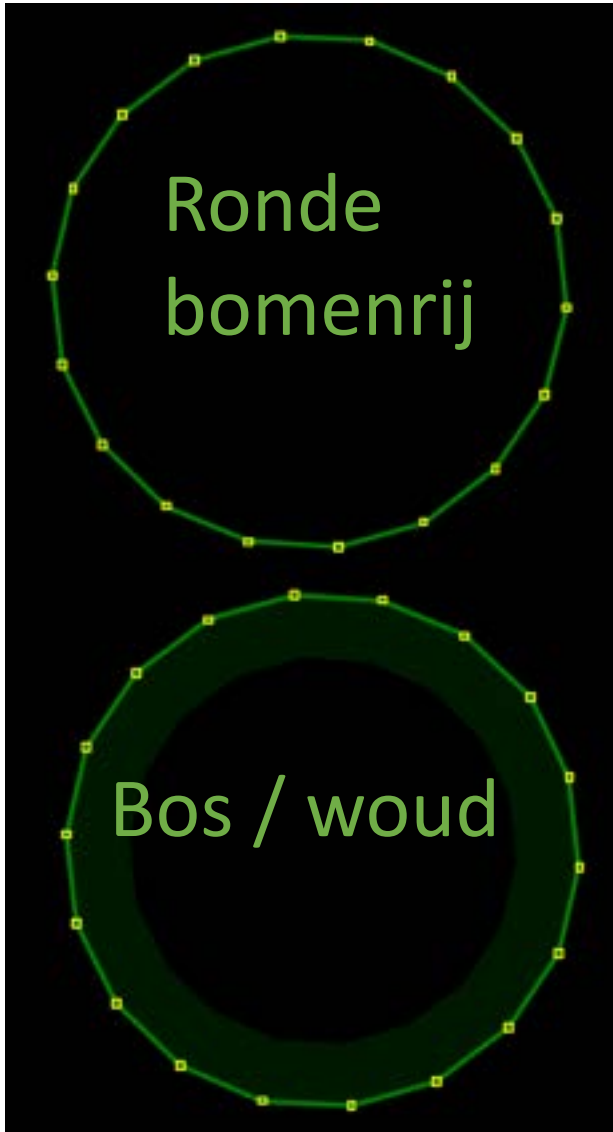
- Punten
- Lijnen
- Polygonen

OSM



- Nodes
- Ways
- Relations

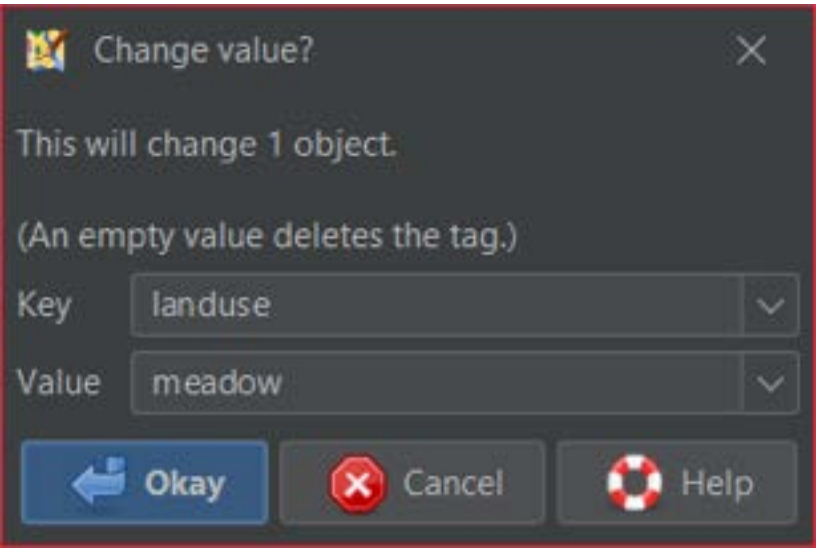
Over de [evolutie van het OSM datamodel] wordt nagedacht.



Tagging

Tags in OSM zijn zogenaamde key-value pairs.

De meeste tags zeggen iets inhoudelijks over een object. Sommige tags dienen alleen als metadata voor de mappers.

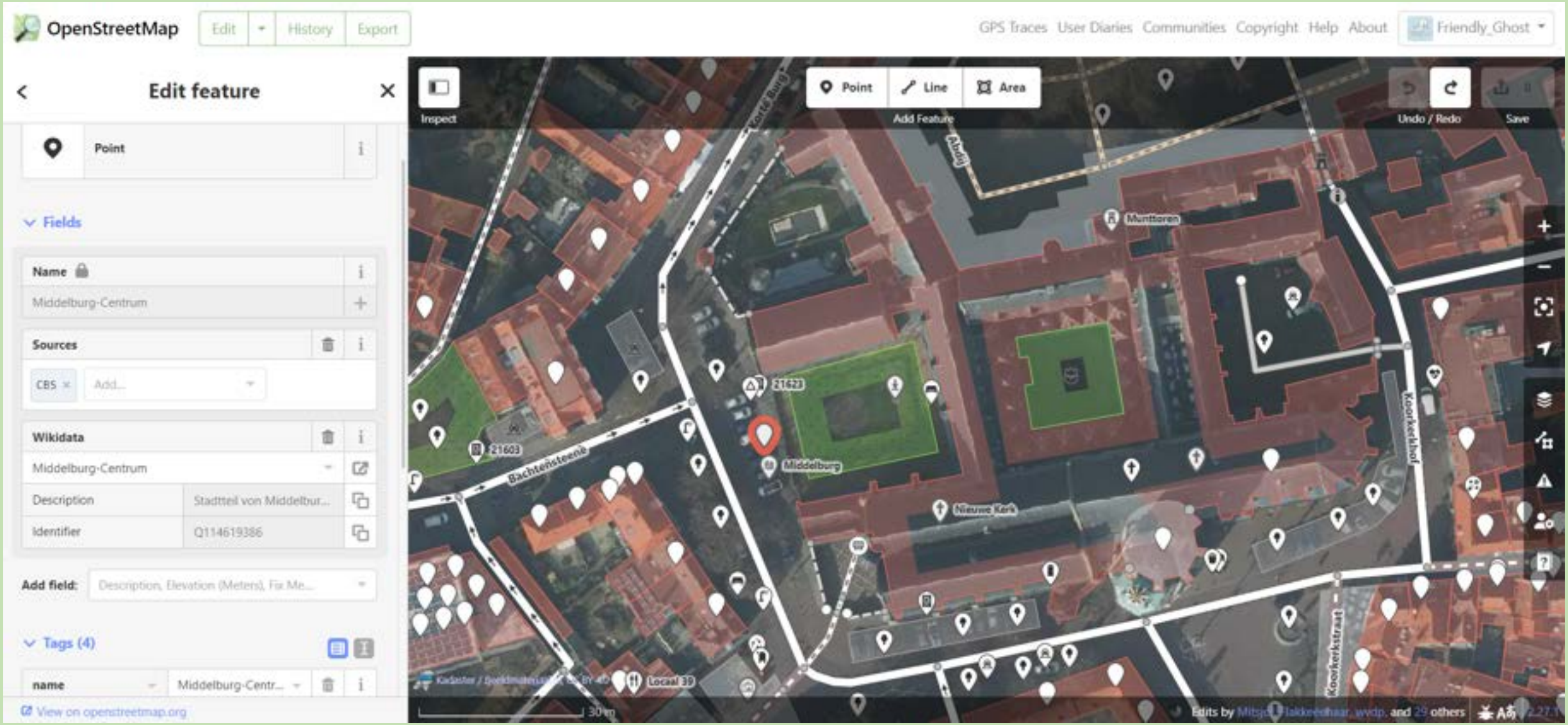


Other landuse key values [edit source]

landuse	brownfield		**Braakliggend terrein**		
landuse	cemetery		**Begraafplaats.** Zie ook `amenity=grave_yard` voor kerkhoven.		
landuse	conservation		Protected areas (deprecated) Alternate tagging of same thing: `boundary=protected_area`, `protected_area=*`		
landuse	depot		An area used as a depot for e.g. vehicles (trains, buses or trams). Consider using rather standard landuse tags like **`landuse=railway`**, **`landuse=commercial`**, **`landuse=industrial`**, with subtag like `industrial=depot`.	currently not rendered by OSM Carto	
landuse	garages		**Garageboxen** Aantal garages op een rij, meestal achter of temidden van huizen en eventueel toegankelijk via een `highway=service`		
landuse	grass		**Grasveld** Met landbouwfunctie (grazen en maaien) eerder **`landuse=meadow`**.		

OpenStreetMap
Edit
History
Export
GPS Traces
User Diaries
Communities
Copyright
Help
About
Friendly_Ghost
Search
Go
Navigeren op openstreetmap.org
Gebruikersaccount
Plan een route
Bewerk de kaart
Selecteer een basemap
Zoeken met Nominatim
Laat een notitie achter
Wat is hier? (query tool)
Onze licensie
Middelburg
Nieuw Middelburg
Griffioen
Klarenbeek
Veersepoort
't Zand
Dauwendaele
Stromenwijk
Mortiere
Arnemuiden
N661
N660
N288
500 m
1000 ft
© OpenStreetMap contributors ♥ Make a Donation. Website and API terms

iD – snel en makkelijk de kaart verrijken



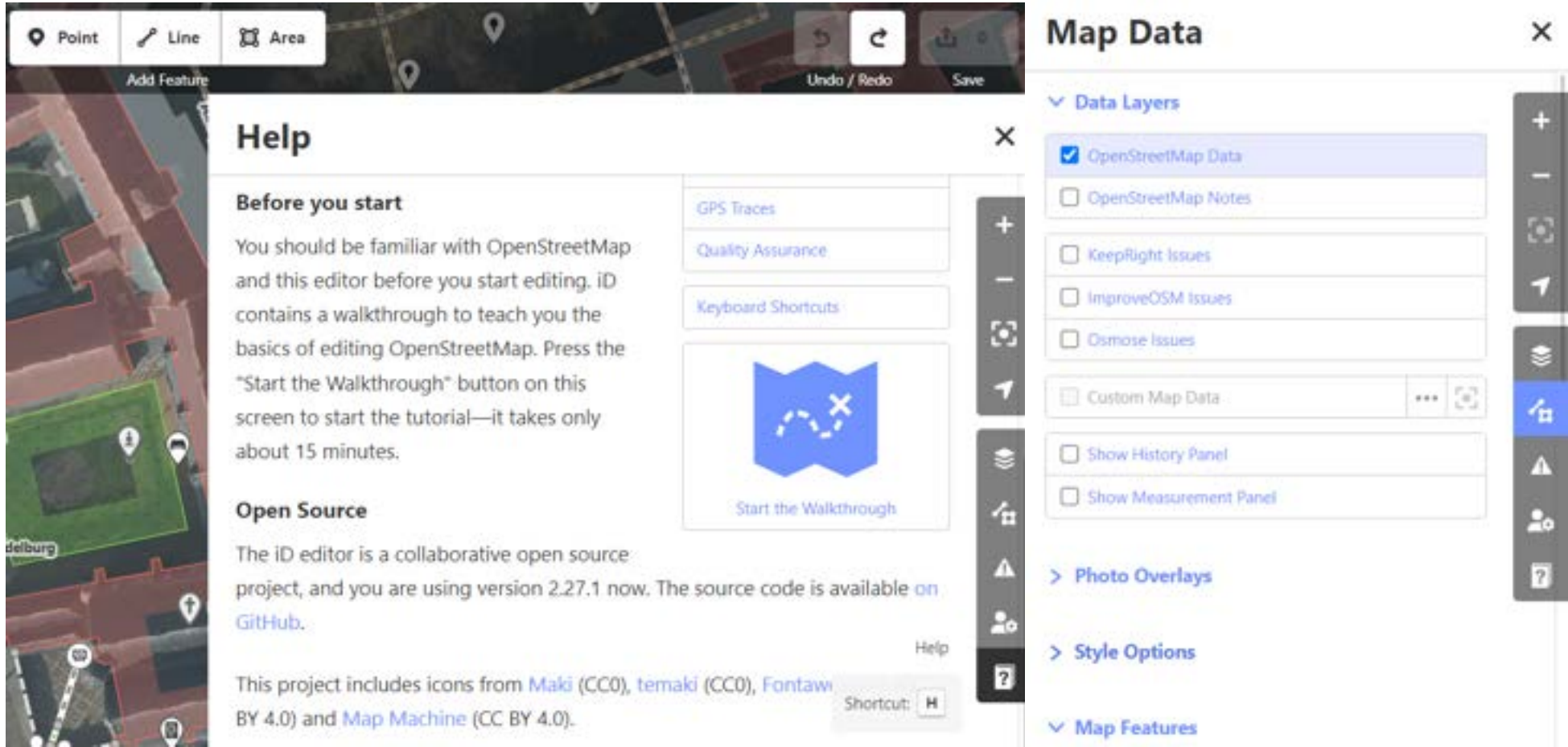
Aan de slag met iD

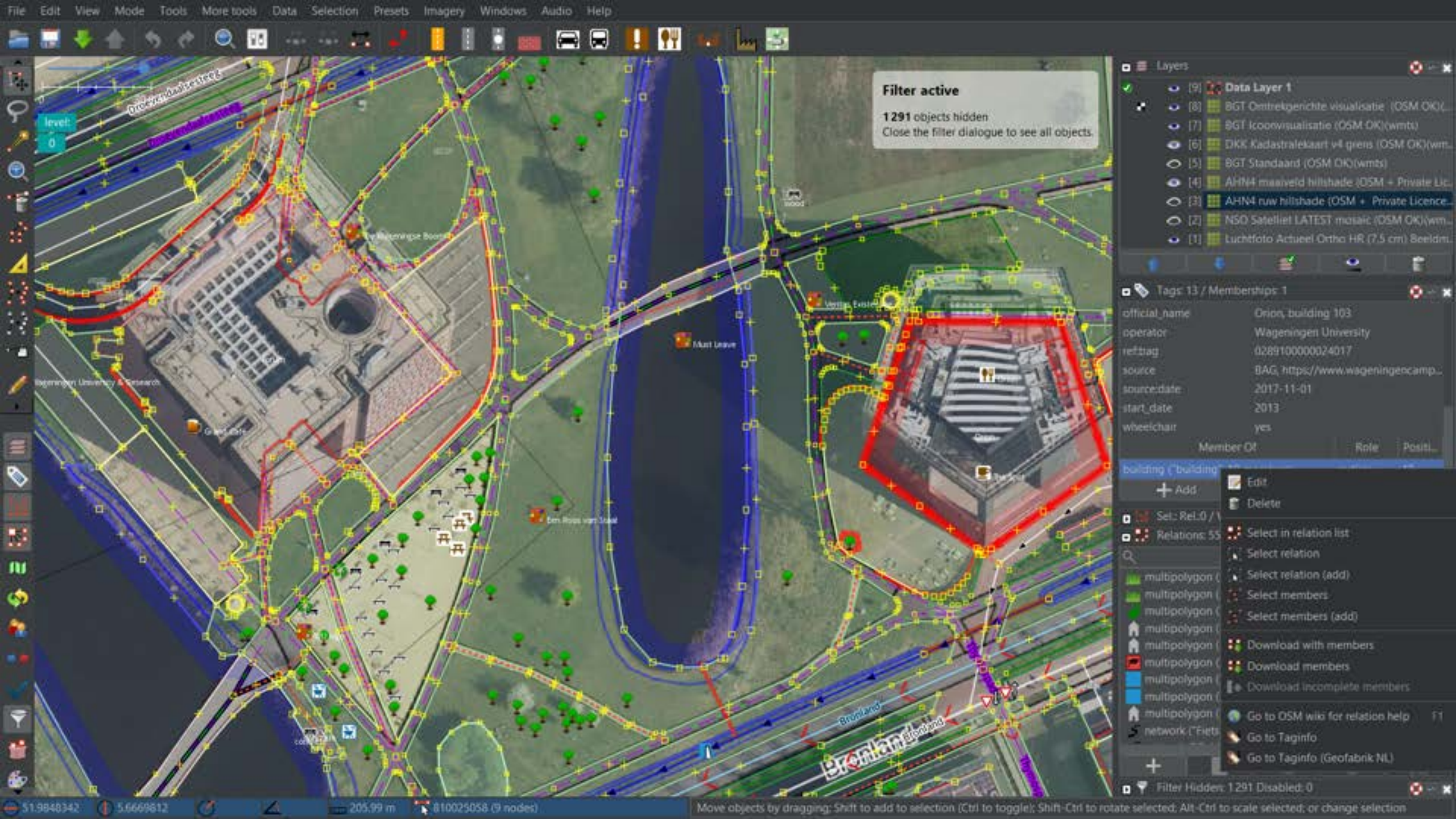
Lijst met shortcuts: https://wiki.openstreetmap.org/wiki/ID/Shortcuts

Volg de walkthrough

Vind op de kaart een plek die je goed kent, en voeg daar iets toe wat nog ontbreekt.

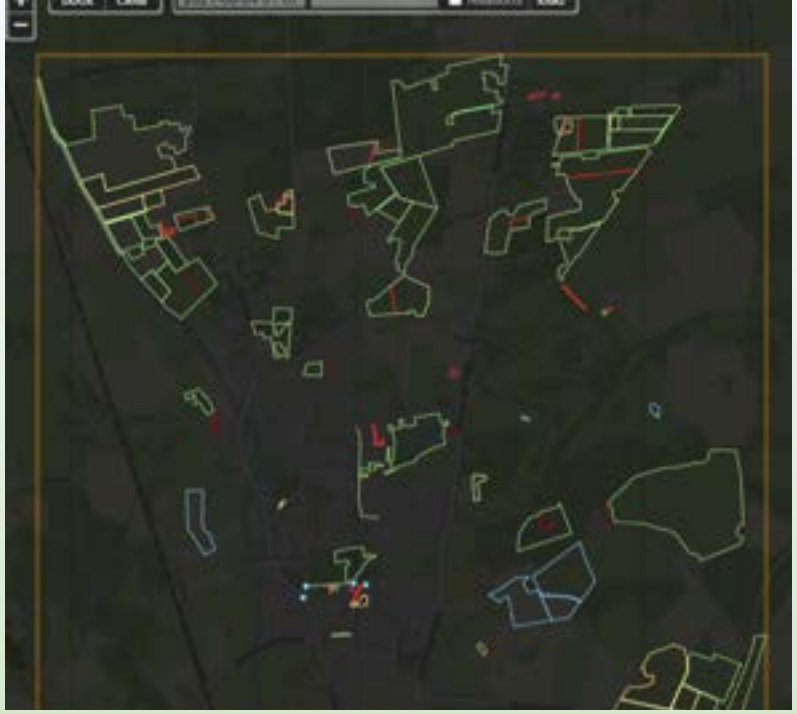
Elke bewerking is belangrijk voor OSM

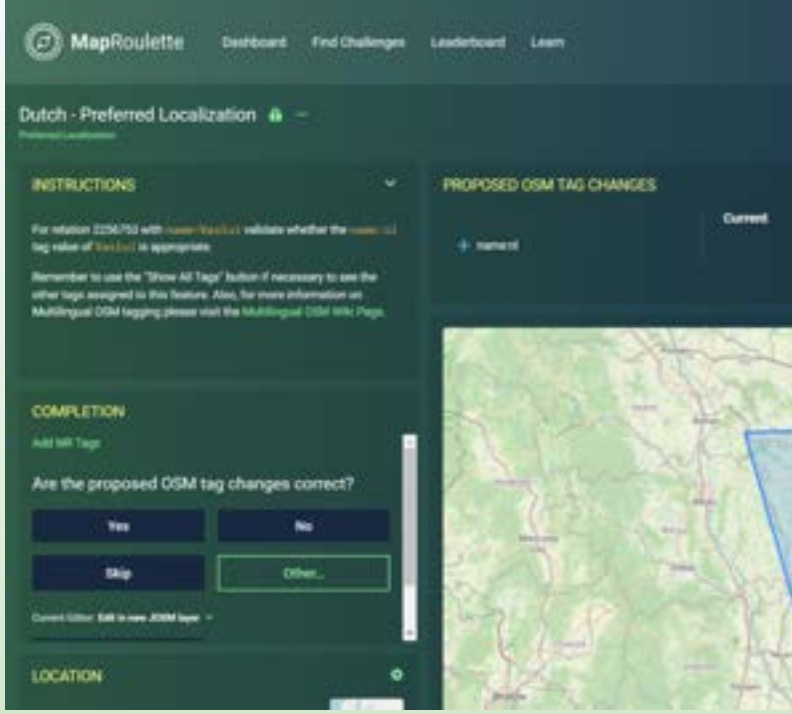


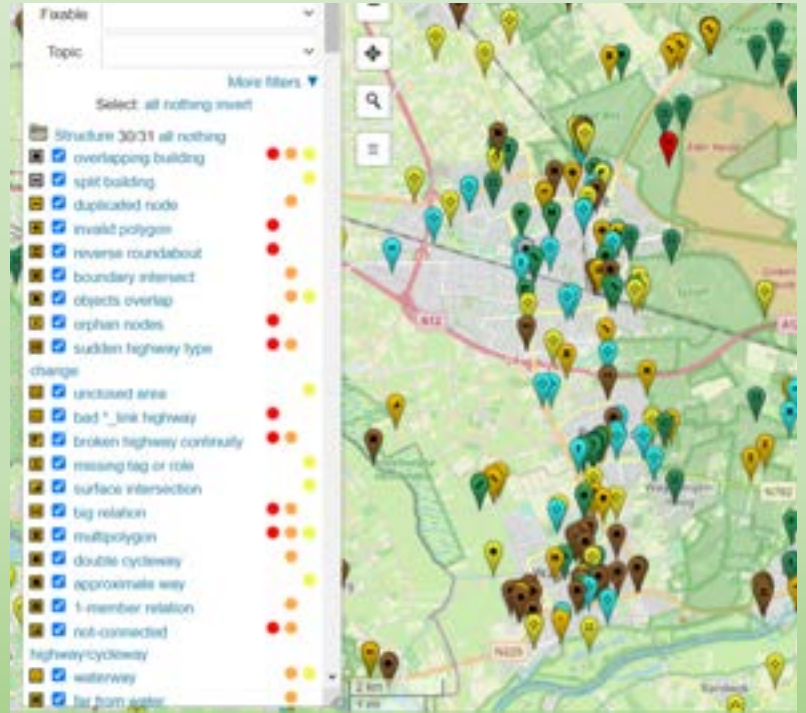

File Edit View Mode Tools More tools Data Selection Presets Imagery Windows Audio Help
Filter active
1291 objects hidden
Close the filter dialogue to see all objects.
Layers
[9] Data Layer 1
[8] BGT Omtrekgerichte visualisatie (OSM OK)(...
[7] BGT Icoonvisualisatie (OSM OK)(wmts)
[6] DKK Kadastralekaart v4 grens (OSM OK)(wm...
[5] BGT Standaard (OSM OK)(wmts)
[4] AHN4 maaiveld hillshade (OSM + Private Lic...
[3] AHN4 ruw hillshade (OSM + Private Licence...
[2] NSO Satelliet LATEST mosaic (OSM OK)(wm...
[1] Luchtfoto Actueel Ortho HR (7.5 cm) Beeldm...
Tags: 13 / Memberships: 1
official_name Orion, building 103
operator Wageningen University
ref:bag 0289100000024017
source BAG, https://www.wageningencamp...
source:date 2017-11-01
start_date 2013
wheelchair yes
Member Of
Role
Positi...
Add
Edit
Delete
Select in relation list
Select relation
Select relation (add)
Select members
Select members (add)
Download with members
Download members
Download incomplete members
Go to OSM wiki for relation help
Go to Taginfo
Go to Taginfo (Geofabrik NL)
Filter Hidden: 1291 Disabled: 0
Must Leave
Bronland
51.9848342
5.6669812
205.99 m
810025058 (9 nodes)
Move objects by dragging; Shift to add to selection (Ctrl to toggle); Shift-Ctrl to rotate selected; Alt-Ctrl to scale selected; or change selection

Extra gereedschap

- Achavi
- MapRoulette
- Osmose
- OSM-revert

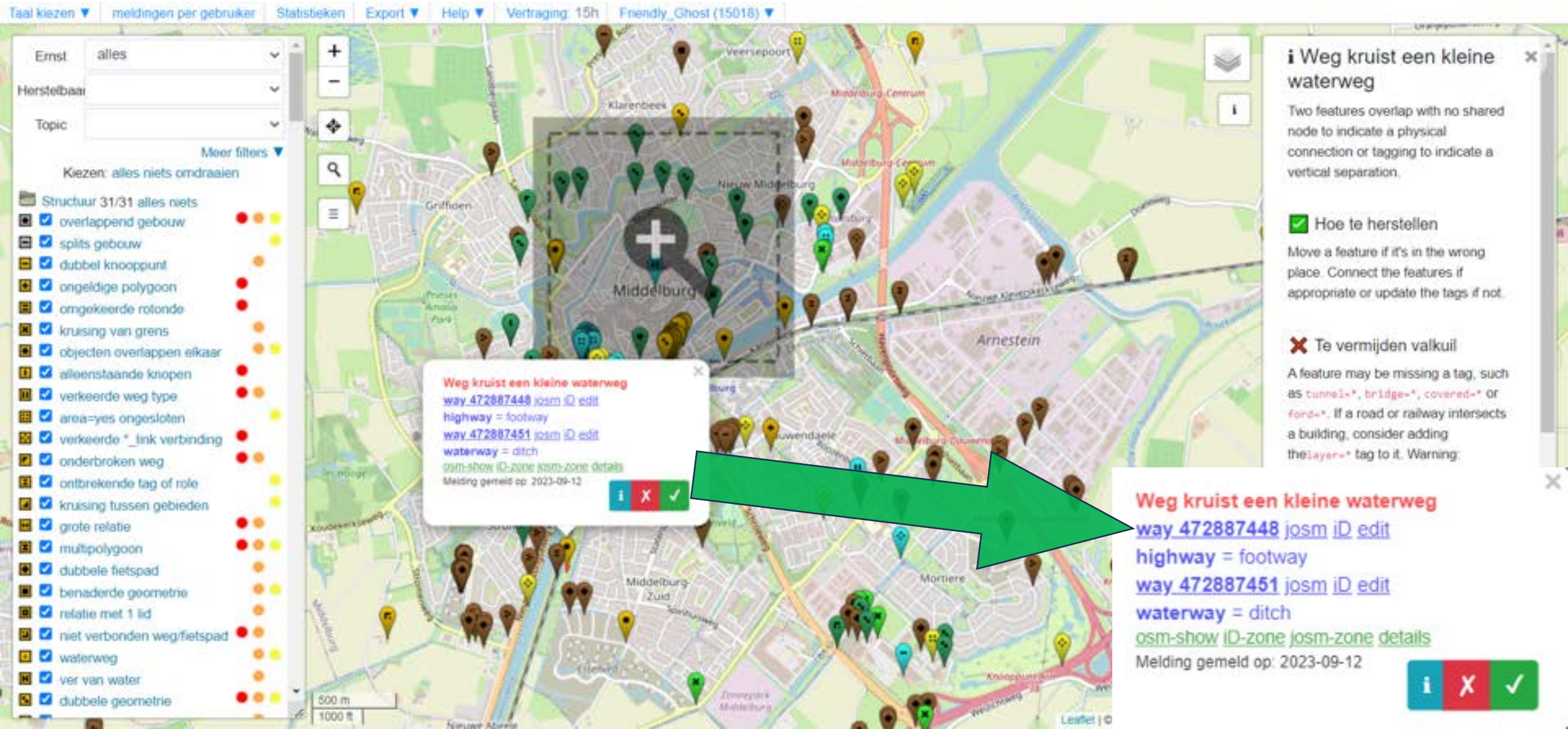






Kwaliteitscontrole met Osmose

https://osmose.openstreetmap.fr/



Statistieken

- How did you contribute?
- Taginfo & Taginfo NL
- OSMstats
- Streetcompleteness

public
Name: Friendly_Ghost
Registered: 2020-03-09
Active contributor: Yes & Yes
Mapping days: 881 (1%)
Map changes: 1,177,229 (7,950)
Reverted changes: 1,297 (0.1%)
Discussed changesets: 136 (97)

Type? Super Mapper (Highly Active)

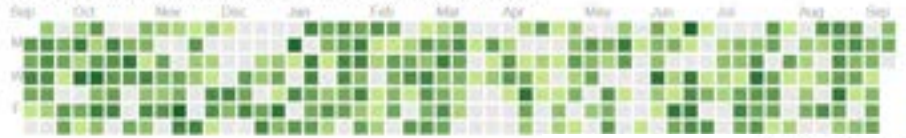
Recent changesets (details): Netherlands (206) Italy (159) United States (42)

Recent ranks: Netherlands #13 Vanuatu #14 Falkland Islands (Islas Malvinas) #17

OSM Notes: Closed w/ comment 11 (w/o 3), commented 23 and opened 19
Changeset discussions: Participated in 349 and created 576 comments
Rollbacks performed: Reverted 487 changesets w/ 9,805 changes of 322 contributors
User blocks: 2

Quality assurance: iD editor: Resolved issues=2, Ignored warnings=8
OSMI issues (details): routing=530, tagging=1993
Osmose issues: Level 1=447, Level 2=5293, Level 3=9301

270 mapping days with 3,271 changesets in the last year



Buildings

61.23%
of all buildings in Utrecht have data about what kind of building they are.

4.22%
of all buildings in Utrecht do have data about how many levels they have.

0.53%
of all buildings in Utrecht do have data about what shape their roof is.

Ways and streets

40.85%
of all ways in Utrecht do have data about what kind of surface they have.

taginfo **Database: Netherlands**

SLEUTELS · TAGS · RELATIES · PROJECTEN · RAPPORTEN · OVER

	Last modifier	Created
Nodes	332,648	218,083 (29%)
Ways	301,186	33,996 (8%)
Relations	3,851	784 (3%)

SLEUTELS

Deze tabel geeft alle tag sleutels weer die in de database bestaan of in een van de andere bronnen.

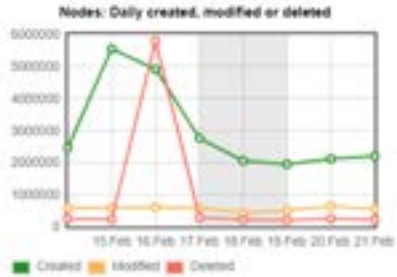
Pagina 1 van 577 JSON Geeft 1 tot 16 van 9224 items weer

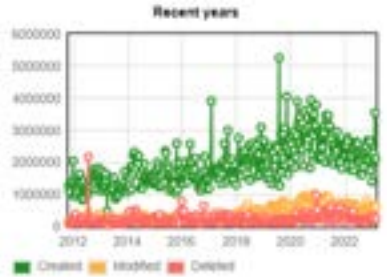
Sleutel	Objecten		Nodes		Wegen		
source	22 135 598	15.84%	9 626 267	87.48%	12 450 244	75.40%	59 087
source:date	20 322 716	14.54%	9 471 528	86.08%	10 843 603	65.67%	7 585
building	10 905 316	7.80%	725	0.01%	10 896 977	65.99%	7 614
start_date	10 827 774	7.75%	29 443	0.27%	10 787 962	65.33%	10 369
ref:bag	10 813 403	7.74%	4 441	0.04%	10 801 563	65.41%	7 399
addr:street	9 556 784	6.84%	9 497 520	86.31%	59 025	0.36%	239
addr:housenumber	9 554 493	6.84%	9 496 018	86.30%	58 255	0.35%	220
addr:city	9 549 470	6.83%	9 496 510	86.30%	52 743	0.32%	217
addr:postcode	9 339 975	6.68%	9 290 002	84.43%	49 771	0.30%	202
highway	2 582 576	1.85%	189 831	1.73%	2 391 542	14.48%	1 203
landuse	1 836 695	1.31%	124	0.00%	1 782 298	10.79%	54 273
name	1 590 913	1.14%	274 827	2.50%	1 286 130	7.79%	29 956
natural	945 304	0.68%	486 289	4.42%	444 759	2.69%	14 256

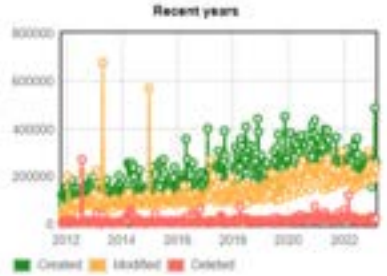
OSMstats About: Trends Members Elements Countries Changesets Boards Date: 22 2 2023

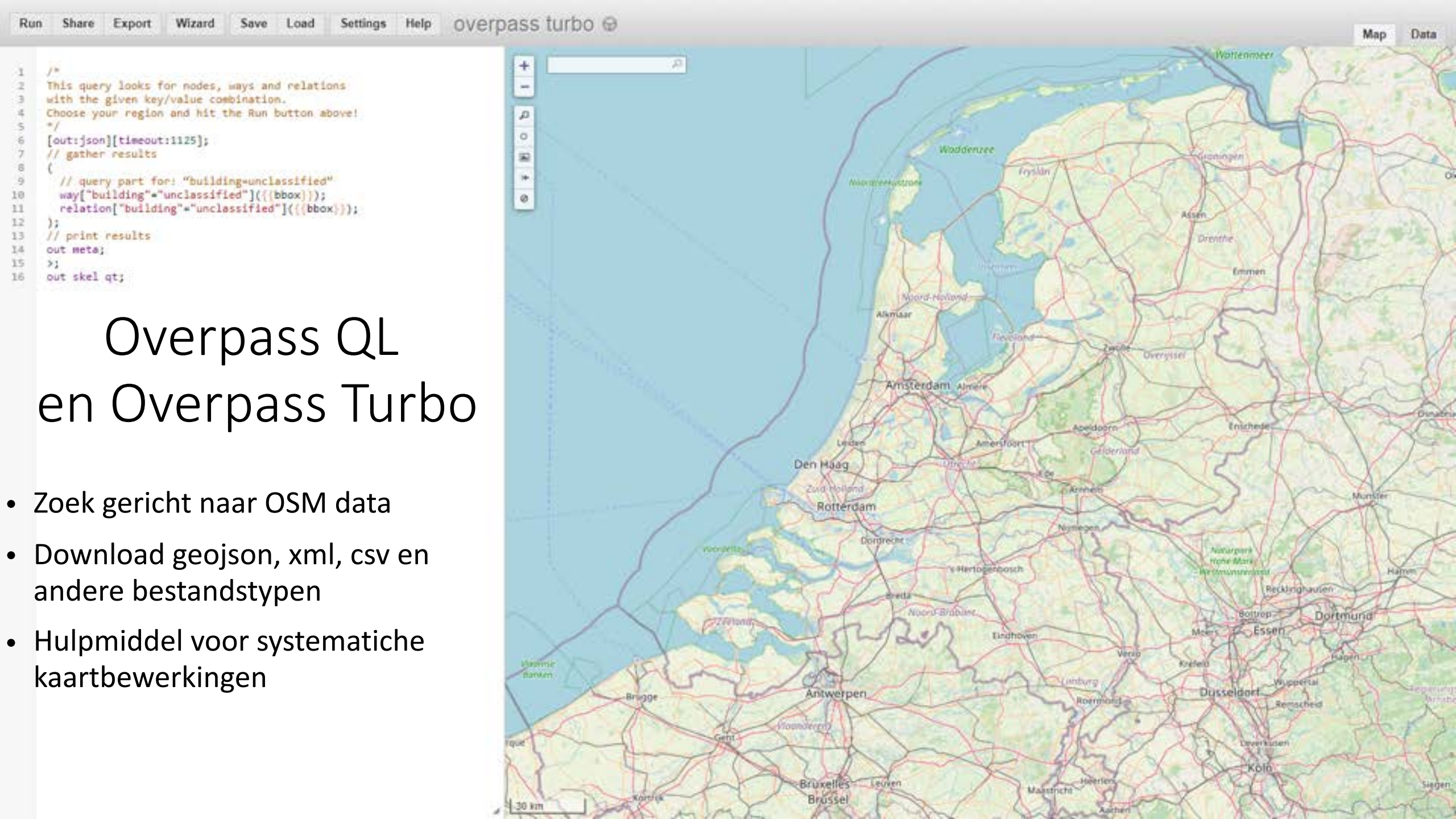
Latest Node: 10687039235 Way: 1148669244 Relation: 15521531 (Changeset: 132901350 @ 2023-02-22 21:55:59 UTC)

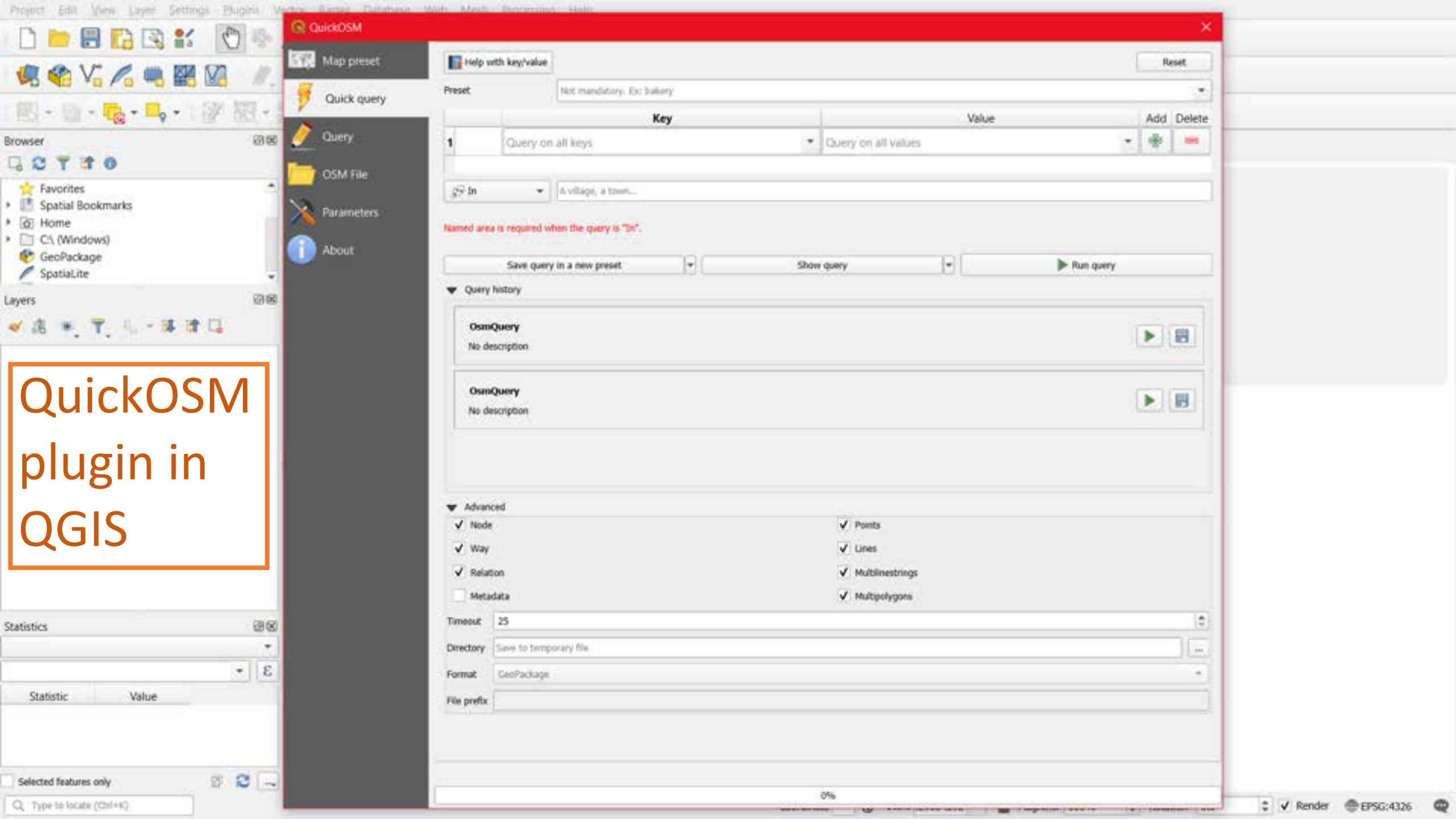
Report run @ Feb, 22nd 2023 3:03am CET

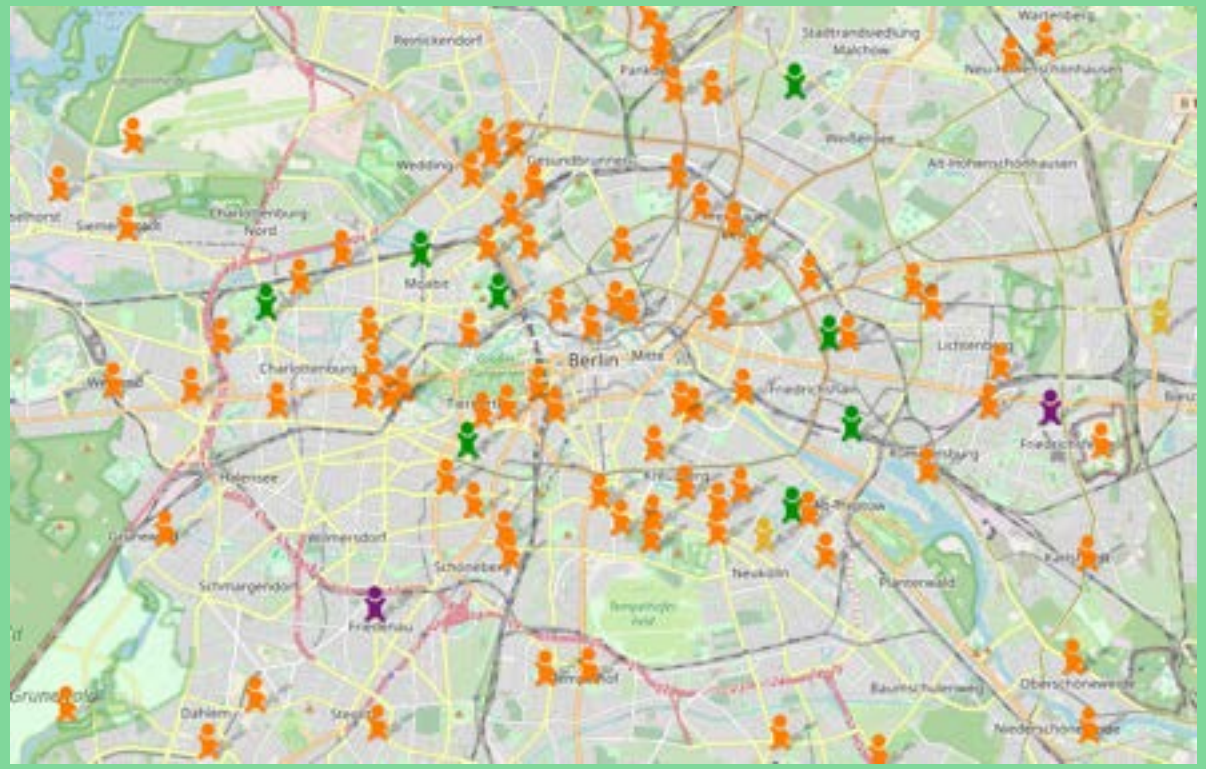







Run
Share
Export
Wizard
Save
Load
Settings
Help
overpass turbo
Map
Data
/*
This query looks for nodes, ways and relations
with the given key/value combination.
Choose your region and hit the Run button above!
*/
[out:json][timeout:1125];
// gather results
(
// query part for: "building=unclassified"
way["building"="unclassified"]({{bbox}});
relation["building"="unclassified"]({{bbox}});
);
// print results
out meta;
>;
out skel qt;
Overpass QL
en Overpass Turbo
Zoek gericht naar OSM data
Download geojson, xml, csv en andere bestandstypen
Hulpmiddel voor systematiche kaartbewerkingen
Amsterdam
Rotterdam
Den Haag
Antwerpen
Brussel
Dortmund
Essen
Düsseldorf
Köln
30 km


QuickOSM
Map preset
Quick query
Query
OSM File
Parameters
About
Help with key/value
Reset
Preset
Not mandatory. Ex: bakery
Key
Value
Add
Delete
Query on all keys
Query on all values
In
A village, a town...
Named area is required when the query is "In".
Save query in a new preset
Show query
Run query
Query history
OsmQuery
No description
OsmQuery
No description
Advanced
Node
Way
Relation
Metadata
Points
Lines
Multilinestrings
Multipolygons
Timeout
25
Directory
Save to temporary file
Format
GeoPackage
File prefix
0%
Browser
Favorites
Spatial Bookmarks
Home
C:\ (Windows)
GeoPackage
SpatiaLite
Layers
Statistics
Statistic
Value
Selected features only
Type to locate (Ctrl+K)
Render
EPSG:4326
QuickOSM plugin in QGIS



De mappers om je heen

OpenStreetMap Foundation

HOT

Humanitarian OpenStreetMap Team

weekly OSM

Het OSM ecosysteem

- Decentrale gemeenschappen
- Besluiten op basis van consensus
- Geen “oplossing voor alles”

StreetComplete en Every Door

Einde
Bedankt voor de aandacht
Dank aan de organisatoren
van de FOSS4G-NL
AMERICANA
OSM
Search
Samples
Legend
Change
Fork me on GitHub