OSM Quality Assurance Tools

Quality Assurance

◈ OpenStreetMap is a free and open platform that anyone can use and edit. > it is critical to the sustainability of open data and OSM that everyone participates in the quality assurance and quality control process

◈ the process by OpenStreetMap contributors check data to ensure that all information uploaded to OSM meets high standards for usage and to prevent vandalism.

◈ Quality Assurance tools help lead to better quality of OSM data

QA Tools

OSMOSE

Tagging and Geometry Issue

OSMCHA

Found Issues by individual User
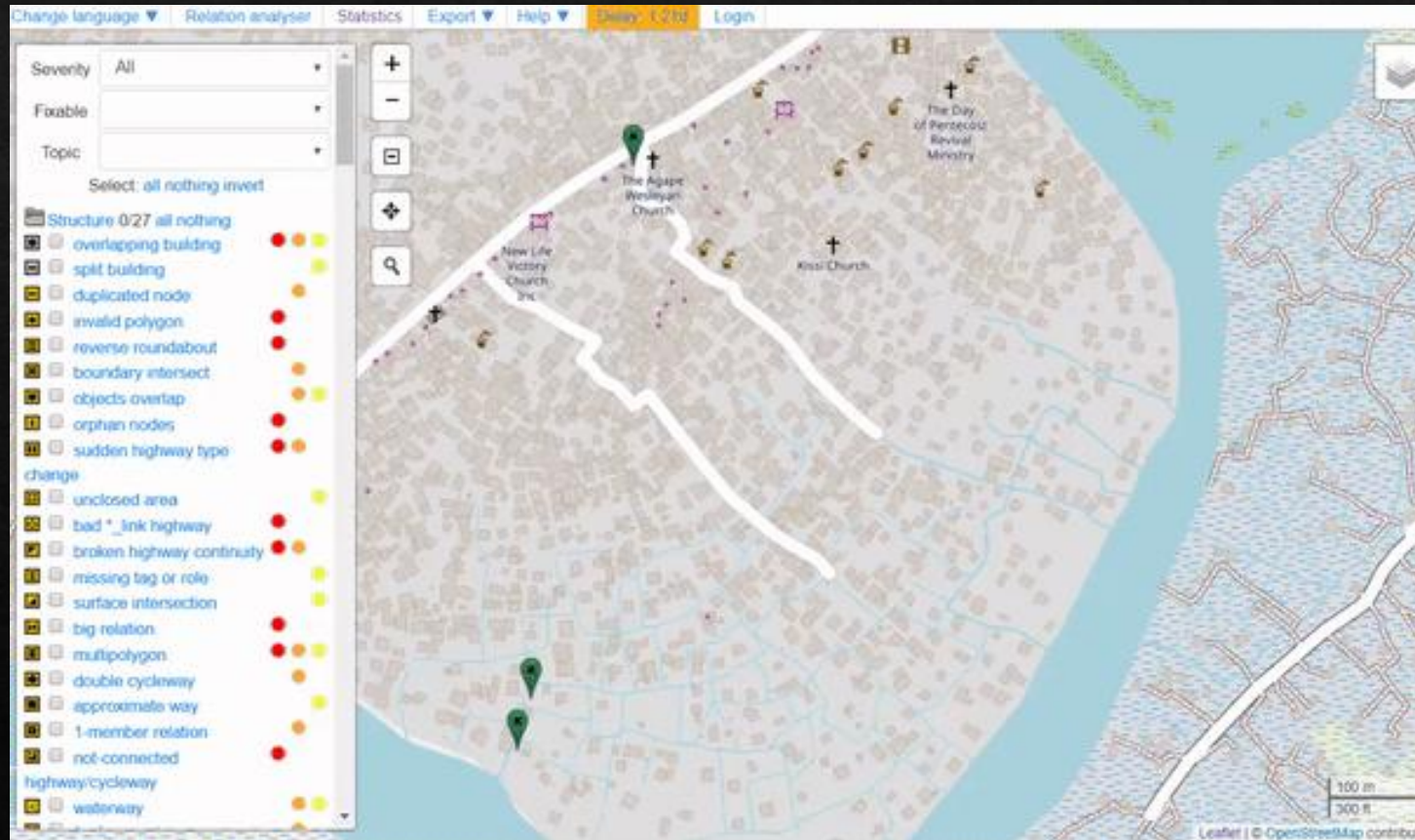
JOSM Validation

Tagging and and Geometry (scan data downloaded into editor)

Nominatim QA

Adressing, Place, Boundary

OSMOSE

- tools available to detect issues in OpenStreetMap data. It detects a very wide range of issue types.

- feature geometry such as overlapping buildings/nodes, incomplete features, and duplications

- common tagging issues such as missing, unsuitable or poorly formatted tags

OSMOSE

steps to correct key issues identified by Osmose

◈ Navigate to http://osmose.openstreetmap.fr in the internet browser.

◈ Use the zoom, pan, and search features on the map to navigate to your area of interest.

◈ Use the left panel to toggle common issues on and off.

◈ Identified issues will appear in the map as pins matching the icons from the issues panel. Click on each pin to learn more about the object and associated issue(s).

◈ In Osmose, locate the 'Export' button at the top of the page. Click 'Export', then 'JOSM'.

◈ Fix the issues identified then re-upload to OSM.

OSMCHA

❖ The OpenStreetMap Changeset Analyzer is a tool designed to review uploads and changes to OSM data.

❖ This tool allows users to filter by username, location, dates of upload, and other metadata features.

❖ OSMCha is useful for monitoring the progress of data cleaning and upload teams.

OSMCHA

Step for using osmcha

◈ Navigate to https://osmcha.mapbox.com in the Google Chrome or Mozilla Firefox internet browser.

◈ To use OSMCha, you will need to sign in with your OpenStreetMap account and grant permission.

◈ Once logged in, a left-hand panel will appear with changesets. Each changeset shows:

OSM username

Time of upload

Changeset comment

Changeset ID

Flags (if any) - such as "Possible Import"

Number of ways added (highlighted in green), ways modified (highighted in yellow), and ways deleted (highlighted in red)

With OSMCha, you can create highly focused filters to monitor you and your team's contribution to OSM. Clicking on 'Filters' on the left-hand panel will open the Filters menu

◈ Click 'Filters' on the left-hand panel.

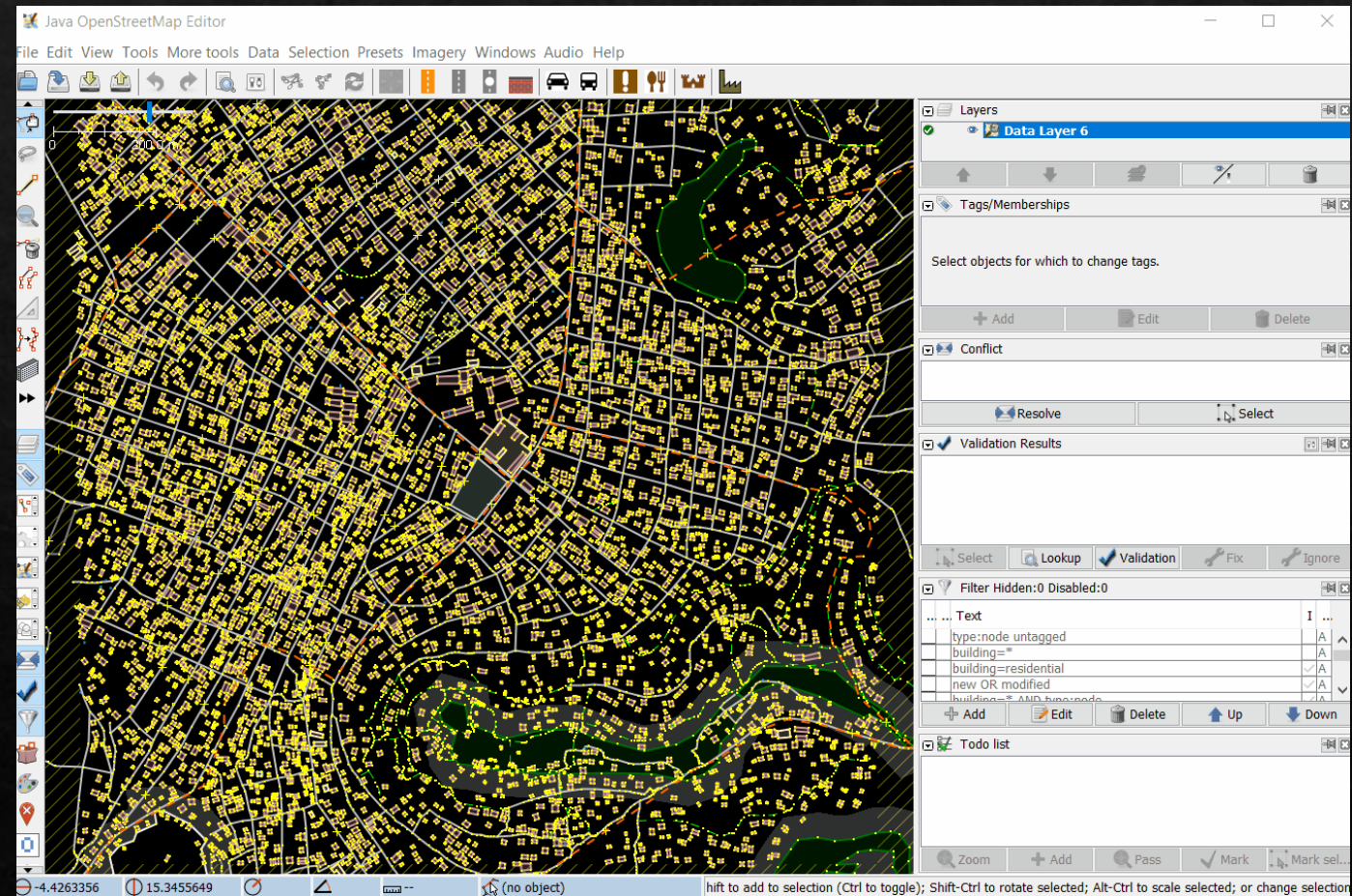◈ Set filters for:

Start Date: 01/01/19

Your username

A location

One additional filter

Click apply.

JOSM VALIDATION

◈ JOSM 's built-in validation tool that checks for common errors and inconsistencies in OSM data relating to both geometry and tagging.

Nominatim QA

◈ A **quality assurance** tool which helps to improve the OpenStreetMap data quality by extracting suspect data from the **Nominatim** database

◈ Step for using this tool:

◈ Navigate to https://nominatim.org/qa/#map

◈ Clik on left screen for choose issue and read instruction

◈ Choose issue on map and click edit by josm/osmid

Nominatim QA ←

Layers:

Suspicious addr:street tag ⌄

Description of the layer:

This view shows addresses where the addr:street tag differs from the name of the street that Nominatim has assigned to the address. There are three different reasons that this happens: 1) there is a typo in addr:street or the street name. 2) The addr:street part does not refer to a street at all but to a place (village, hamlet, area). 3) Road is not mapped yet near address (or tts name is missing)

Why are these data wrong:

1. The addr:street tag should have exactly the same name as the street.
2. addr:street must only be used when the house number is attached to an existing street nearby.

How to fix these errors:

1. Check if there is a typo in the addr:street tag or in the name of the street and fix it.
2. If addr:street refers to a place, use change it to addr:place.
3. If road is missing, map it

Last update of the layer:

2024-11-17 02:01:14 UTC

Reference

◈ https://wiki.openstreetmap.org/wiki/Quality_assurance#:~:text=Quality%20Assurance%20tools%20help%20lead,and%20fix%20using%20editing%20tools.

◈ https://github.com/hotosm/toolbox/wiki

◈ Hot osm qa assurance