How to break the OpenStreetMap

Ilya Zverev, MAPS.ME
FOSDEM 2017
OpenStreetMap
No premoderation
Новим Роком!
The community watches closely
Changeset 45814971 by sazrodrigo on Feb. 4, 2017, 8:50 p.m.

Source
Ortofotos 2011 Paranacidade

Comment
Correção de informações

Imagery used
Not reported

Editor
JOSM/1.5 (11529 pt_BR)
Please list changeset ids to revert:

1234234234
382475628
123847521

Comment:

Revert these

Queue

This is the Revert UI

It is a simple reverter: you give it a list of changesets (whitespace-separated, you also can paste whole links), and it reverts these. It would be nice to explain what you are reverting in the comment field. Revert jobs are processed once a minute, so you will have some time to cancel yours if you make a mistake. If not, you can simply revert the reverting changeset.

There are limits: at most 20 changesets, 200 changed objects in total. That is because the reverter makes C+E² API calls, which can be quite high. The reason for that is, the reverter not just
Are Node IDs 64-bit Yet?

YES

Last node id is 115AB 9978
or $2^{32} + 363 \ 567 \ 480$

Update your software!
The key to breaking things is...
Apfel
Restaurant • Vegetarian
Rua Dom José de Barros, 111

Today 09:00-15:00
Sun-Fri 09:00-15:00

-23.544525, -46.640969
11 mln monthly active users
11 mln monthly active users
OSM Edits Made With MAPS.ME

**Statistics**
- Total: 1057421
- Created: 567827
- Deleted: 6
- Modified: 347552
- Notes: 141830
- Anomalies: 206
- Nodes: 708708
- Ways: 206579
- Relations: 98
- Users: 117829

**Top Users**
1. iWowik (9593)
2. Nesim (8825)
3. aquila2 (8177)
4. Omnific (6680)
5. Paul Kalinin (6393)
6. SEVEN (6304)
7. Filutkie (4993)
8. Humus015 (4067)
9. rdz3056 (3705)
10. parukhin (3433)

**Edited Countries**
1. Russian Federation (135672)
2. Ukraine (63410)
3. Germany (47485)
4. Belarus (41888)
5. Philippine Continental Shelf (31008)
6. United States of America (30034)
7. Japan (26203)
8. India (23005)
9. Algeria (22743)
10. Iraq (20293)

**Top Main Categories**
1. Normal
2. building
3. amenity
4. high
5. shop
6. amenity
7. shop
8. tourism
9. tourism
10. amenity

**Changes**

- Dung sau at 04.02.2017 05:38 in 45796931: created tourism=alpine_hut JOSM Level0

- Name: nhà của Ба
- Tourism: alpine_hut
The simplest editor

- No tags or presets
- No geometry or relations
- No changing types
- Works offline
- Uploads to OpenStreetMap
<table>
<thead>
<tr>
<th>Tag</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ele</td>
<td>279</td>
</tr>
<tr>
<td>name</td>
<td>U forta Mezní Louka:小瑞士居住地</td>
</tr>
<tr>
<td>name:cs</td>
<td>Mezní Louka</td>
</tr>
<tr>
<td>name:de</td>
<td>Rainwiese</td>
</tr>
<tr>
<td>place</td>
<td>hamlet</td>
</tr>
<tr>
<td>population</td>
<td>4</td>
</tr>
</tbody>
</table>
(not maps.me, but close)
How we solved everything

- Notify users that their edit will be available for everyone
- Forbid editing default names
- Make a special name monitoring mode for MMWatch
- Fix accidental replacements
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name:fr</td>
<td>SITARAIL</td>
</tr>
<tr>
<td>name</td>
<td>Plateau</td>
</tr>
<tr>
<td>opening_hours</td>
<td>24/7</td>
</tr>
<tr>
<td>amenity</td>
<td>cafe</td>
</tr>
<tr>
<td>name</td>
<td>У Егорки</td>
</tr>
<tr>
<td>name:ru</td>
<td>Black cup</td>
</tr>
<tr>
<td>amenity</td>
<td>restaurant</td>
</tr>
<tr>
<td>name</td>
<td>Марше</td>
</tr>
</tbody>
</table>
SEVERAL DAYS LATER
Владимир К at 24.11.2016 06:02 in 43911578: modified amenity=kindergarten

building:levels 2

name Д/С №363

addr:street Хавская улица Khavskaya St

Владимир К at 24.11.2016 06:02 in 43911578: modified building=yes

building:levels 7

addr:street улица Татишева Tatishcheva Street

Владимир К at 24.11.2016 06:02 in 43911578: modified building=yes

building:levels 5

Владимир К at 24.11.2016 06:02 in 43911578: modified building=apartments

building:levels 9

addr:street улица Шухова Shukhova Street
MAPS.ME is awesome
OSM is awesome
Its data model is...
To Do

- Thanks to Mapbox for the data team and OSMcha
- Monitoring of reverts and marking vandals
- Realtime change quality assessment
- Better editing UI
OpenStreetMap has always wished for more editors
Thanks!

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