

How to break the OpenStreetMap

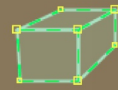
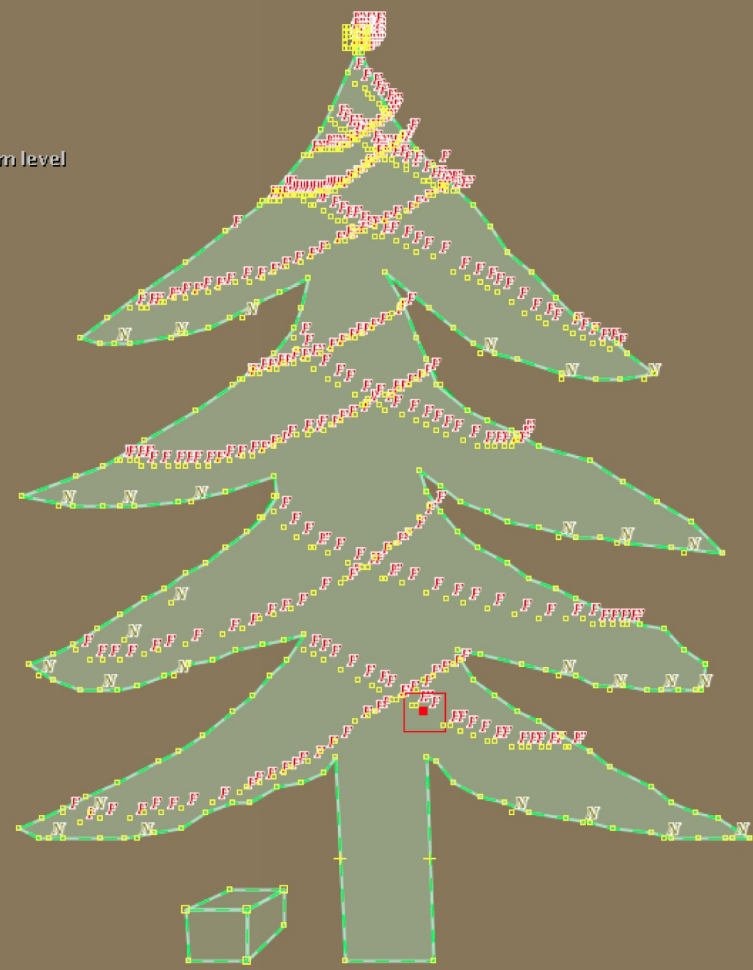
Ilya Zverev, MAPS.ME
FOSDEM 2017

OpenStreetMap

No premoderation



No tiles at this zoom level



3

НОВИМ РОКОМ!

Search

Where am I? [Go](#)



Way History: 320874581 ✕

Cerne Abbas Giant - tag as path from self-intersecting driveway

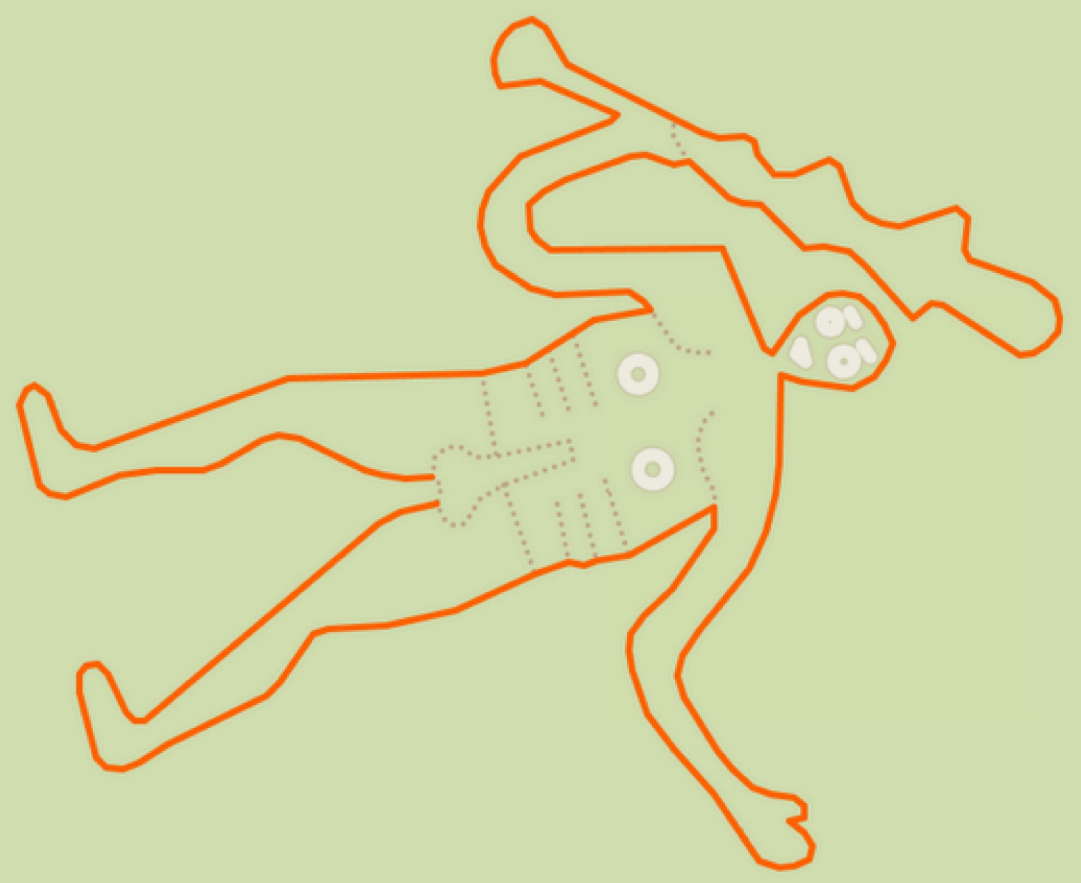
Edited 3 months ago by [mentor](#)
Version #1 · Changeset #27985967

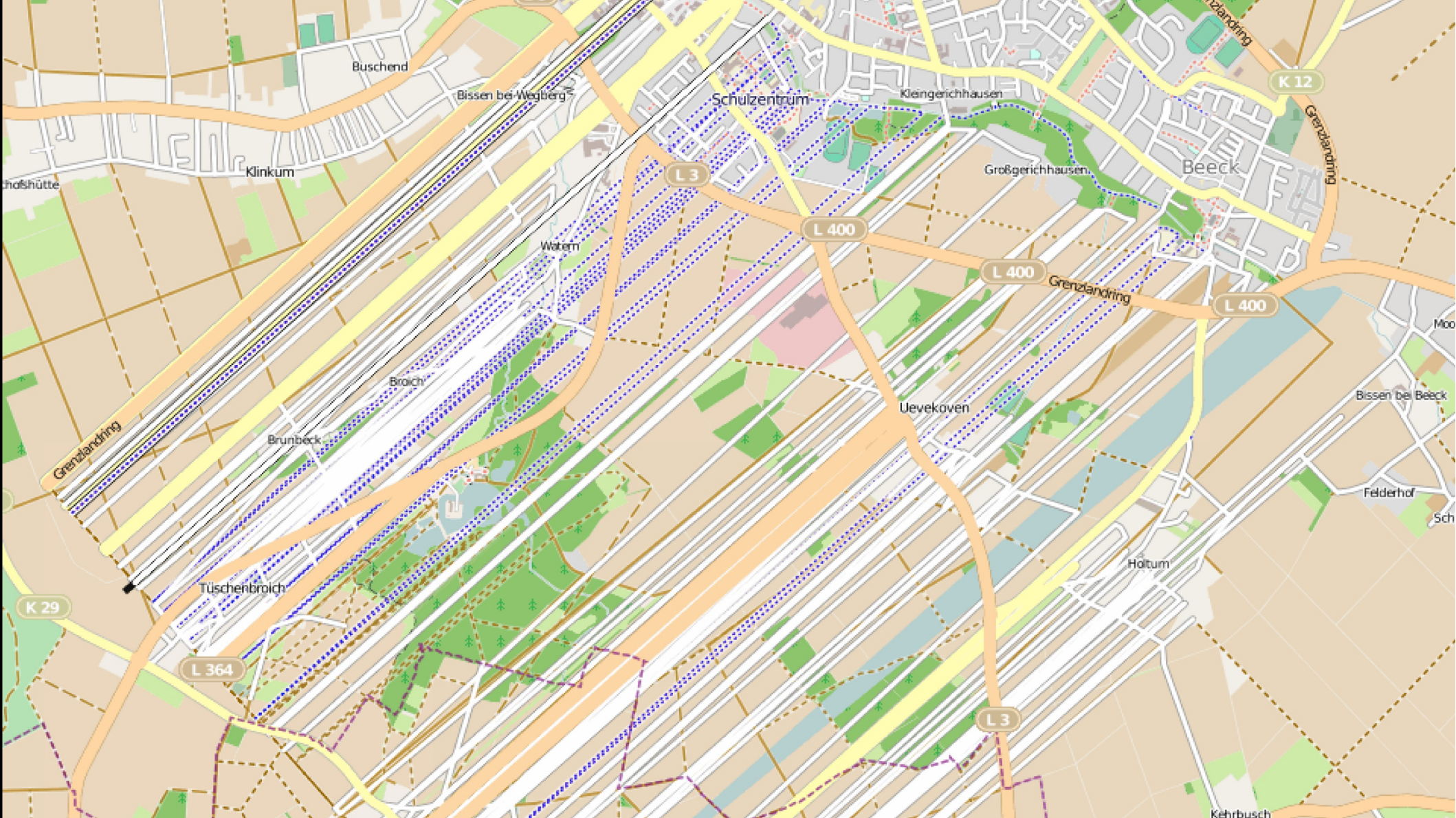
Tags

FIXME	surface=chalk? access=no?
highway	path

Nodes

- [3268165964](#) (part of way ---- [320874580](#))
- [3268164730](#)
- [3268164731](#)
- [3268164732](#)
- [3268164733](#)
- [3268164734](#)
- [3268164735](#)
- [3268164736](#)
- [3268164737](#)





Buschendorf

Bissen bei Wegberg

Schulzentrum

Klengerichhausen

Großgerichhausen

Beeck

Klinkum

Wabern

Broich

Brunbeck

Uevekoven

Hötum

Tüschenbroich

Bissen bei Beeck

Felderhof

Kehrbusch

K 12

L 3

L 400

L 400

L 400

K 29

L 364

L 3

Grenzlandring

Grenzlandring

Grenzlandring



Kame

83

Joseph Leong Hwy

Kamehameha Hwy

Weed Cir

State Highway 99

Kamehameha Hwy

Wanini Pl

The community watches closely





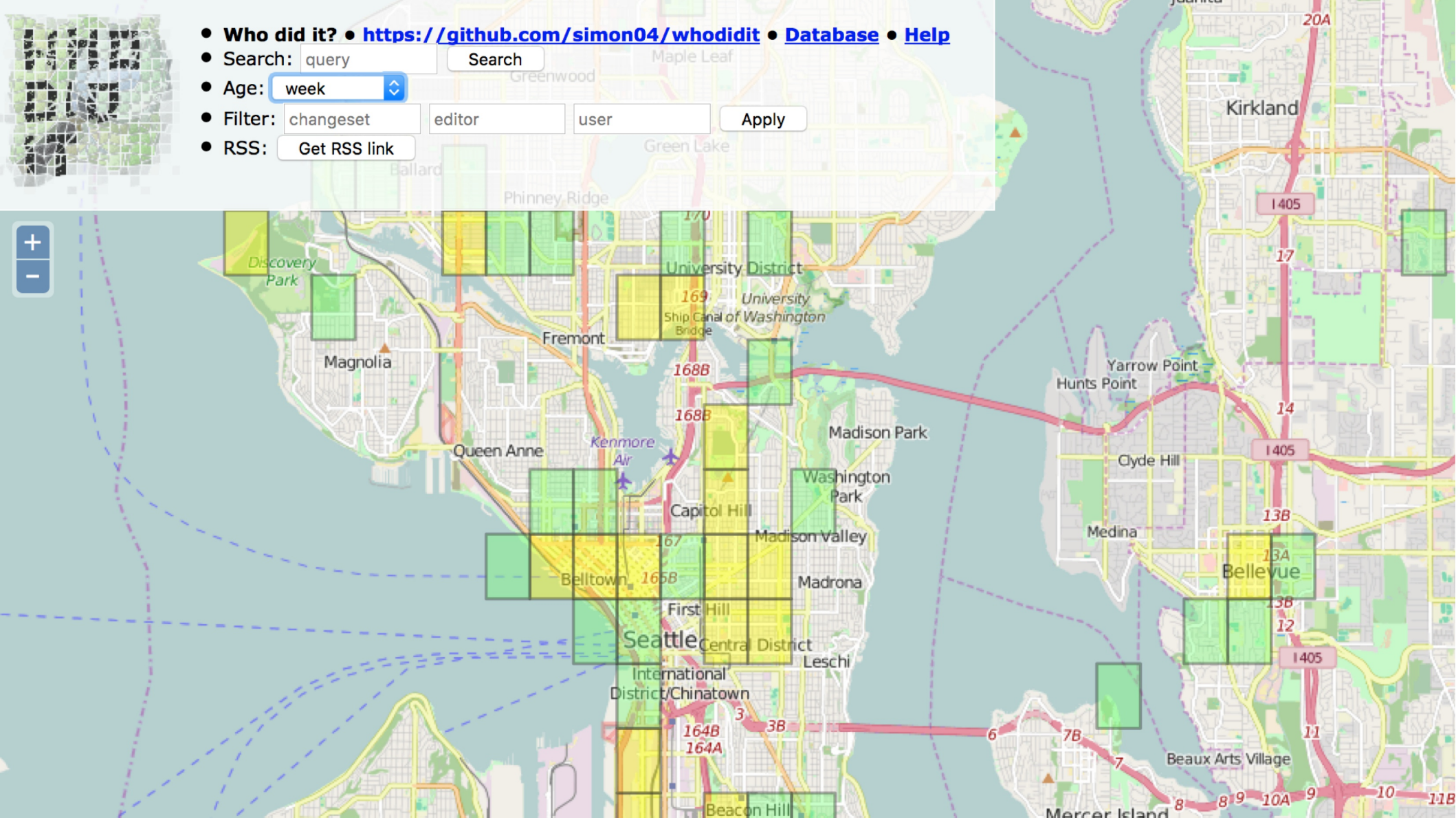
● Who did it? ● <https://github.com/simon04/whodidit> ● Database ● Help

● Search:

● Age:

● Filter:

● RSS:



Changeset 45814971 by sazrodrigo on Feb. 4, 2017, 8:50 p.m.

2 30 1094

Mass deletion

Open in JOSM

HDYC

Not Verified

Source

Ortofotos 2011 Paranacidade

Comment

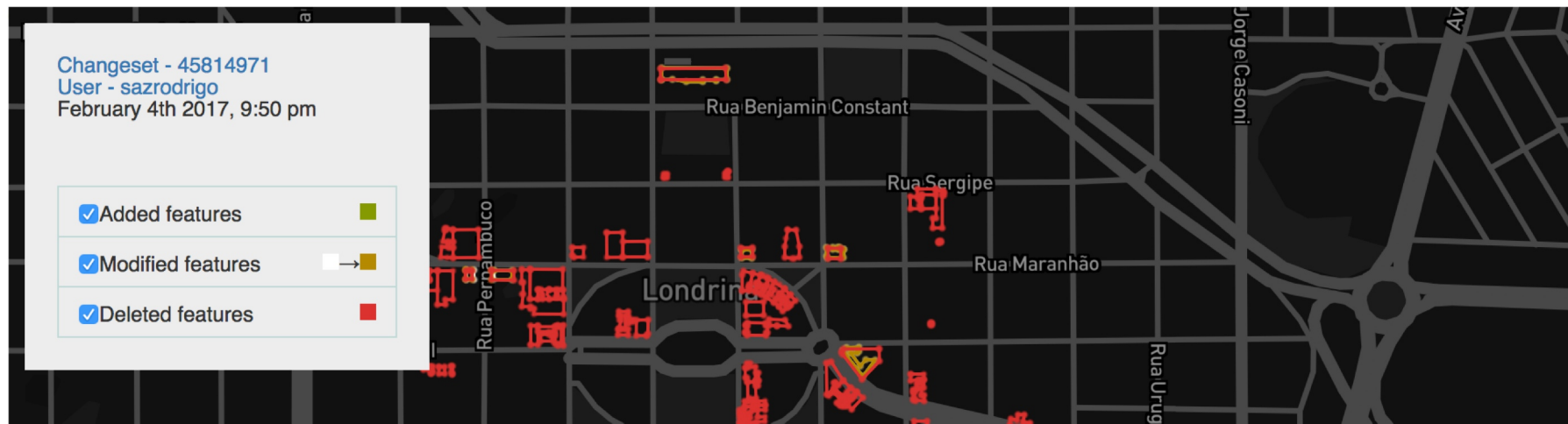
Correção de informações

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 $C+E*2$ API calls, which can be quite high. The reason for that is, the reverter not just



Are Node IDs 64-bit Yet?

YES

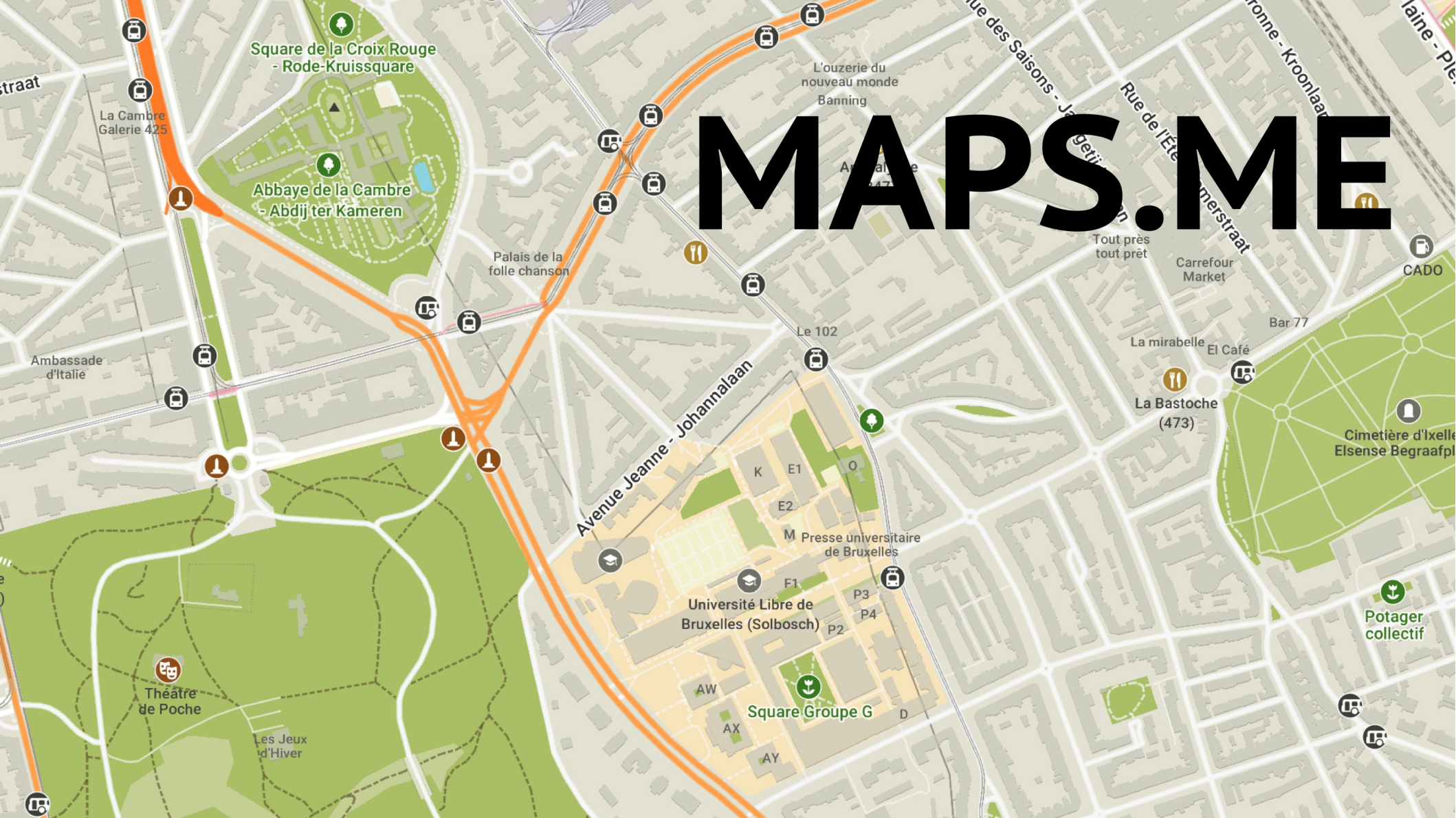
Last node id is 115AB 9978
or $2^{32} + 363\ 567\ 480$

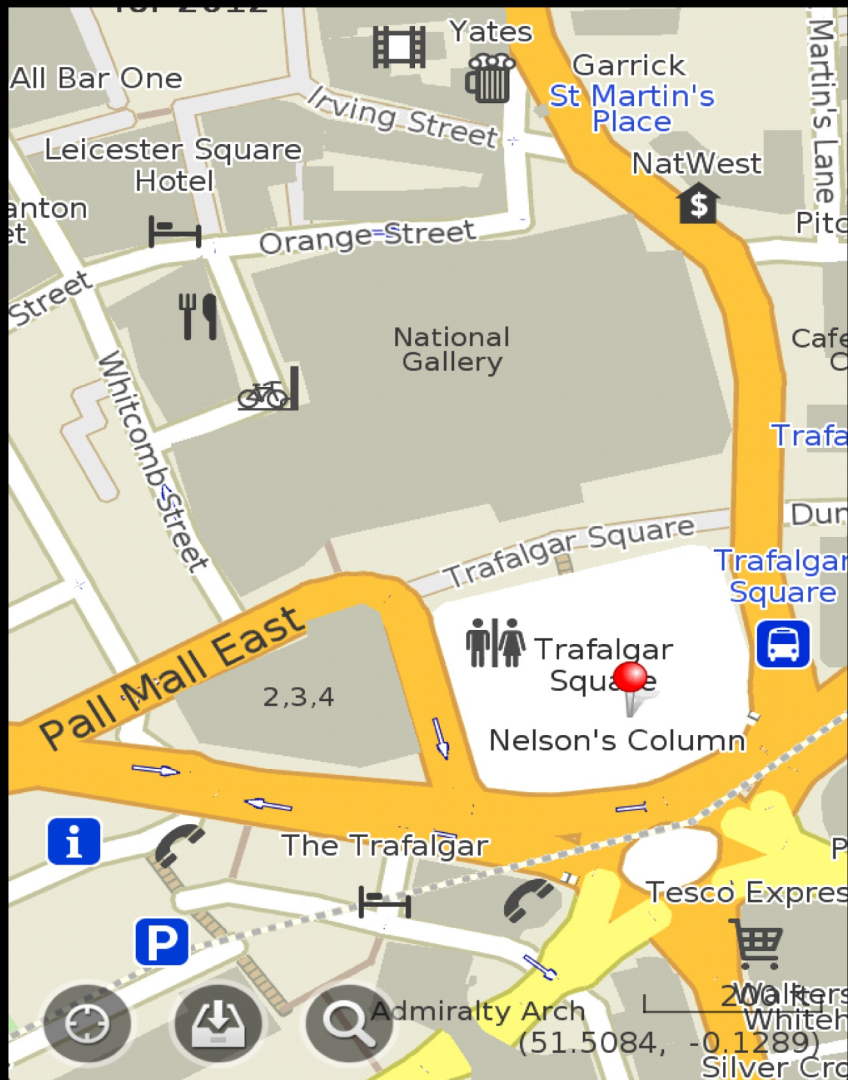
Update your software!

The key to breaking things is...



MAPS.ME





Maps		Golden	X
San Francisco/Civic...	993 ft		
USA, California	car sharing		
Golden Gate	4.3 mi		
USA, California	locality		
Golden Valley	1578 mi		
USA, Minnesota	town		
Golden Gate Avenue	0.3 mi		
USA, California	street		
Golden	936 mi		
USA, Colorado	town		
Golden Gate Theater	0.5 mi		
USA, California	building		
Golden Valley	906 mi		
USA, Montana	county		
Golden Gate Avenue	0.5 mi		
USA, California	street		
Golden	972 mi		
Canada, British Columbia	town		
Holiday Inn Golden Ga...	0.8 mi		




Apfel


Restaurant • Vegetarian

 11817 km


Rua Dom José de Barros, 111

 Today 09:00-15:00

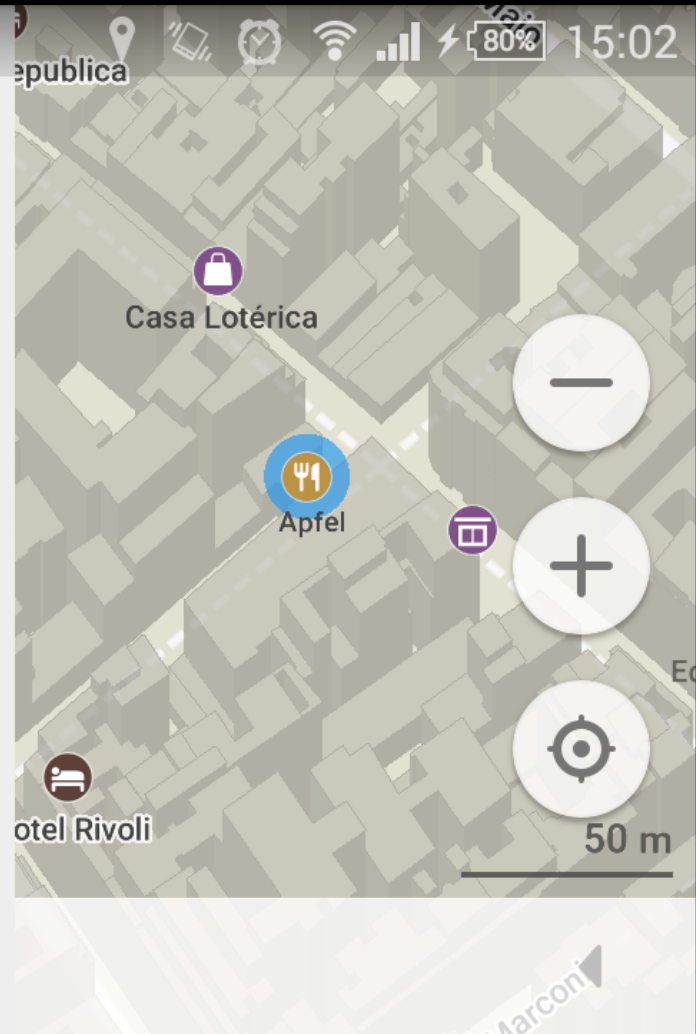
Sun-Fri 09:00-15:00

 -23.544525, -46.640969

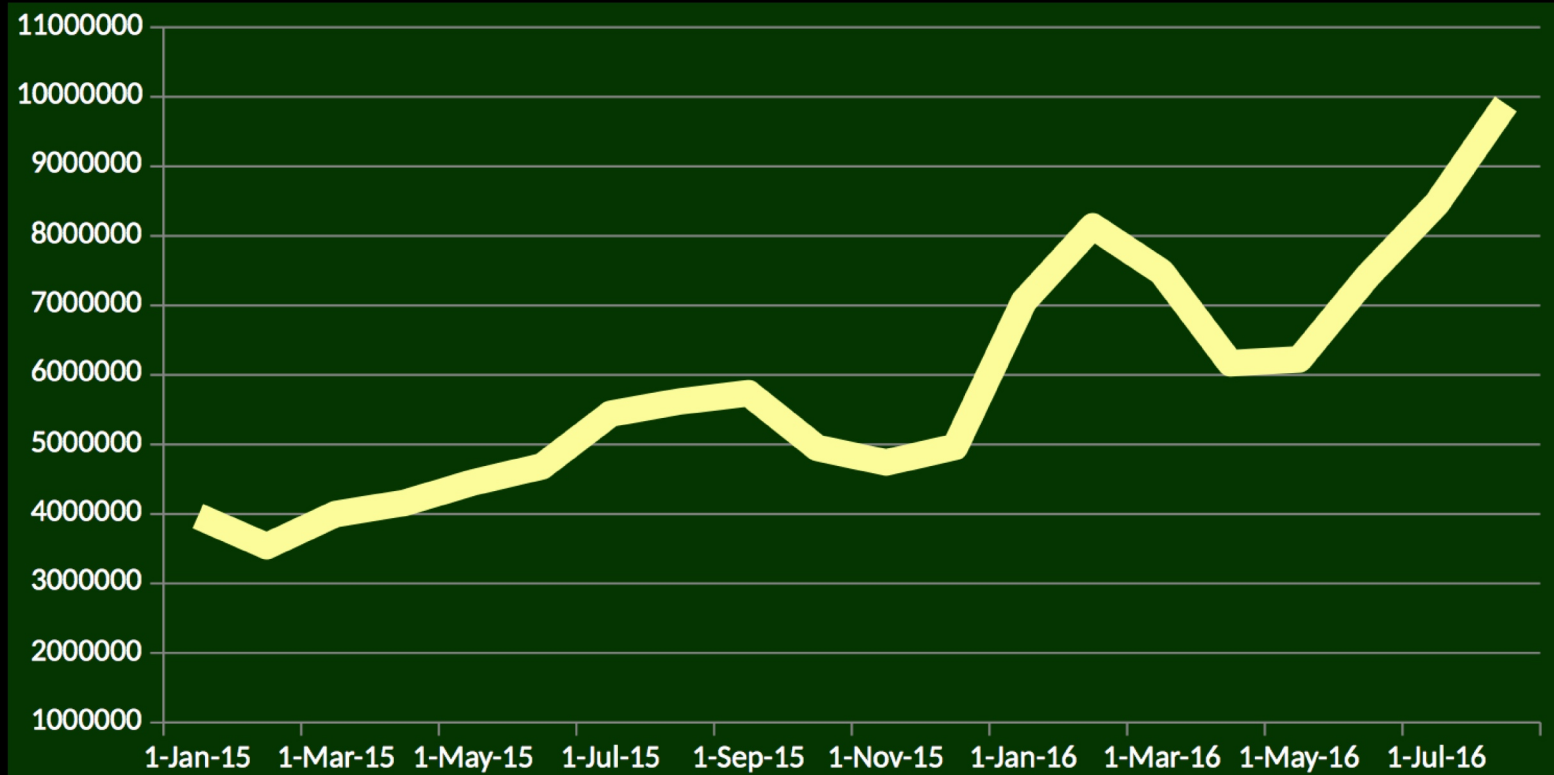

BOOKMARK


ROUTE TO

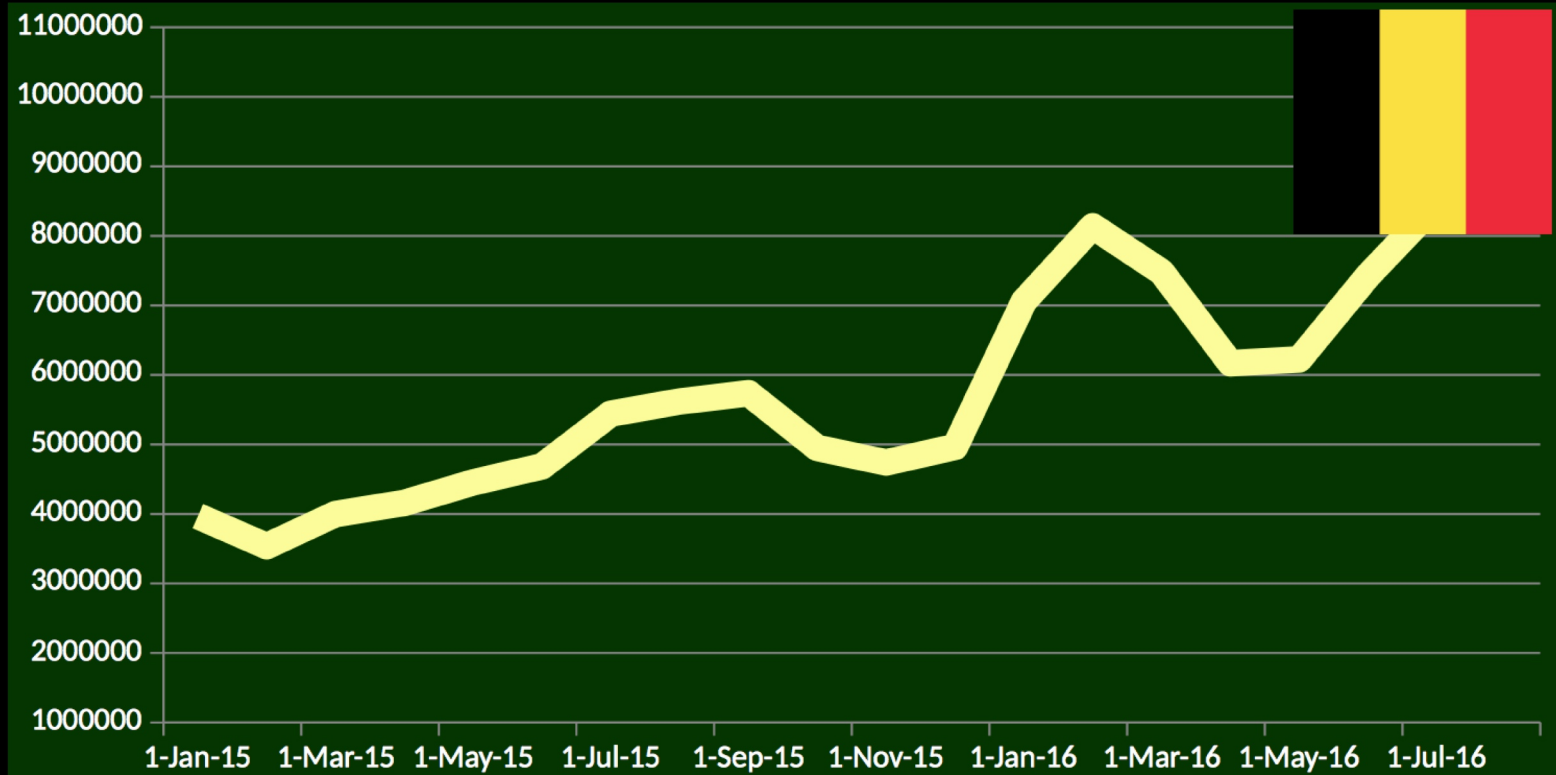

SHARE



11 mln monthly active users



11 mln monthly active users

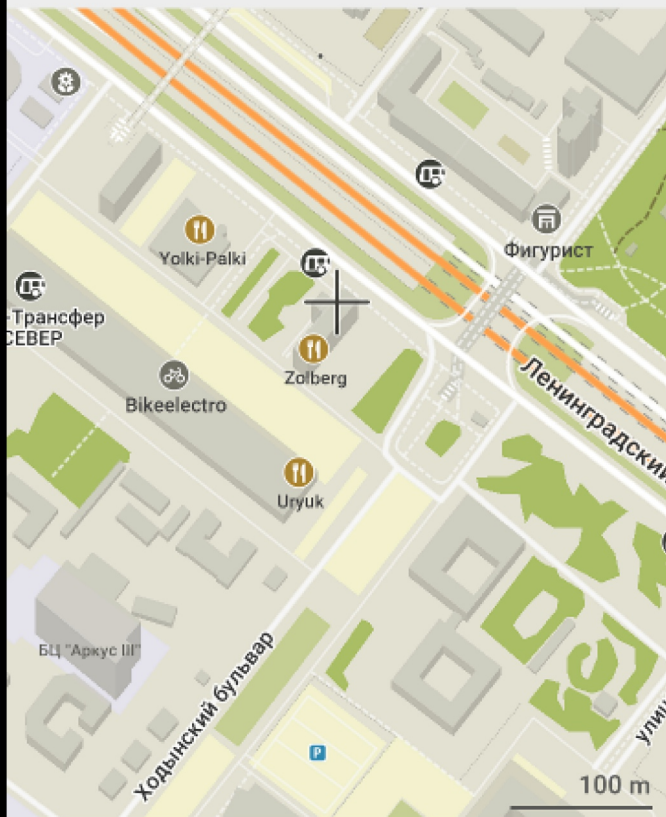




Location

Done

Pull the map to select the correct location of the object.



Name of the place

Whatever

Address



Street

House

Details



Opening hours



Phone



Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All Day (24 hours)



Open

12:00

Closed

24:00

[ADD HOURS CLOSED](#)

Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

All Day (24 hours)



Open

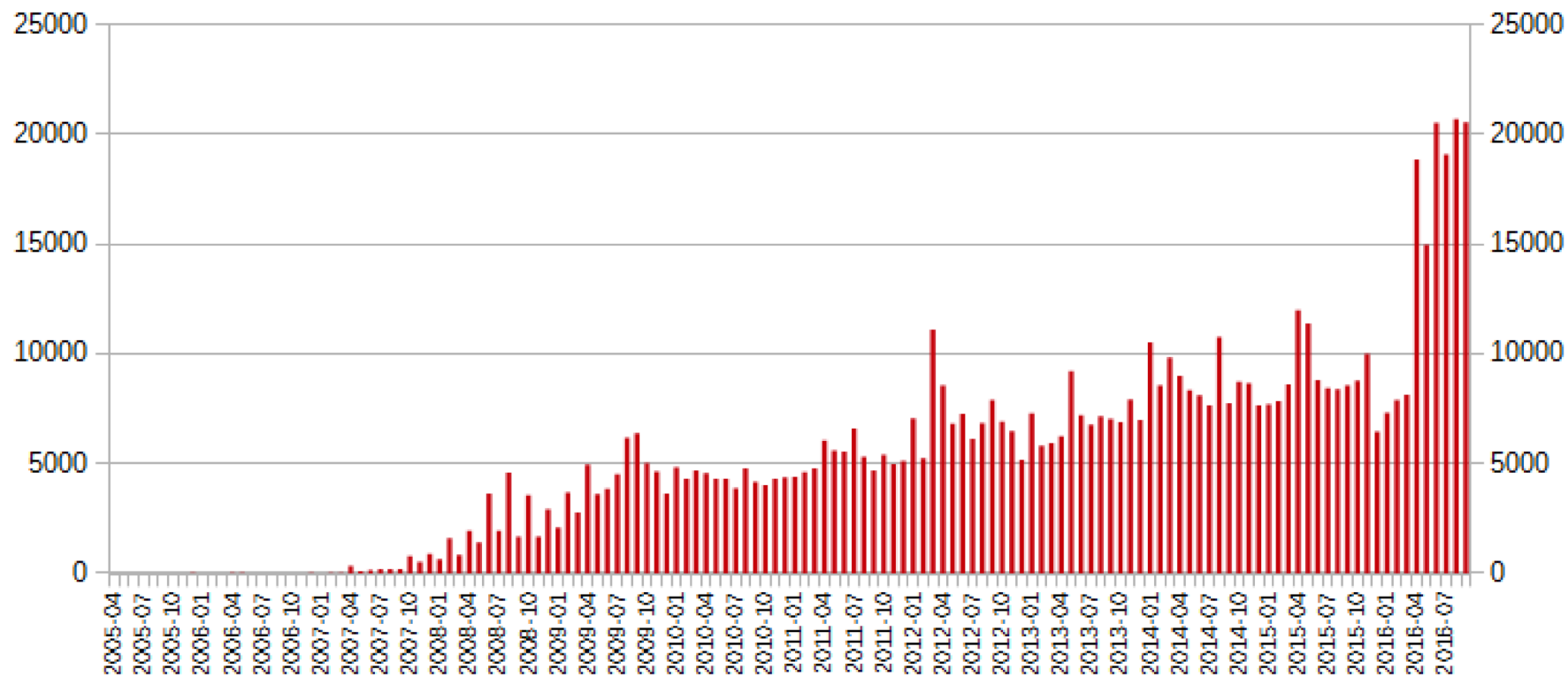
00:00

Closed

24:00

[ADVANCED MODE](#)

OpenStreetMap New Contributors per Month



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)

[Show all](#)

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

1. Nor
2. buil
3. am
4. high
5. sho
6. am
7. sho
8. tou
9. tou
10. am

Changes

- [Dung sau](#) at 04.02.2017 05:38 in [45796931](#): created [tourism=alpine_hut](#) [JOSM Level0](#)

[name:vi](#) | [Nhà của Ba](#)

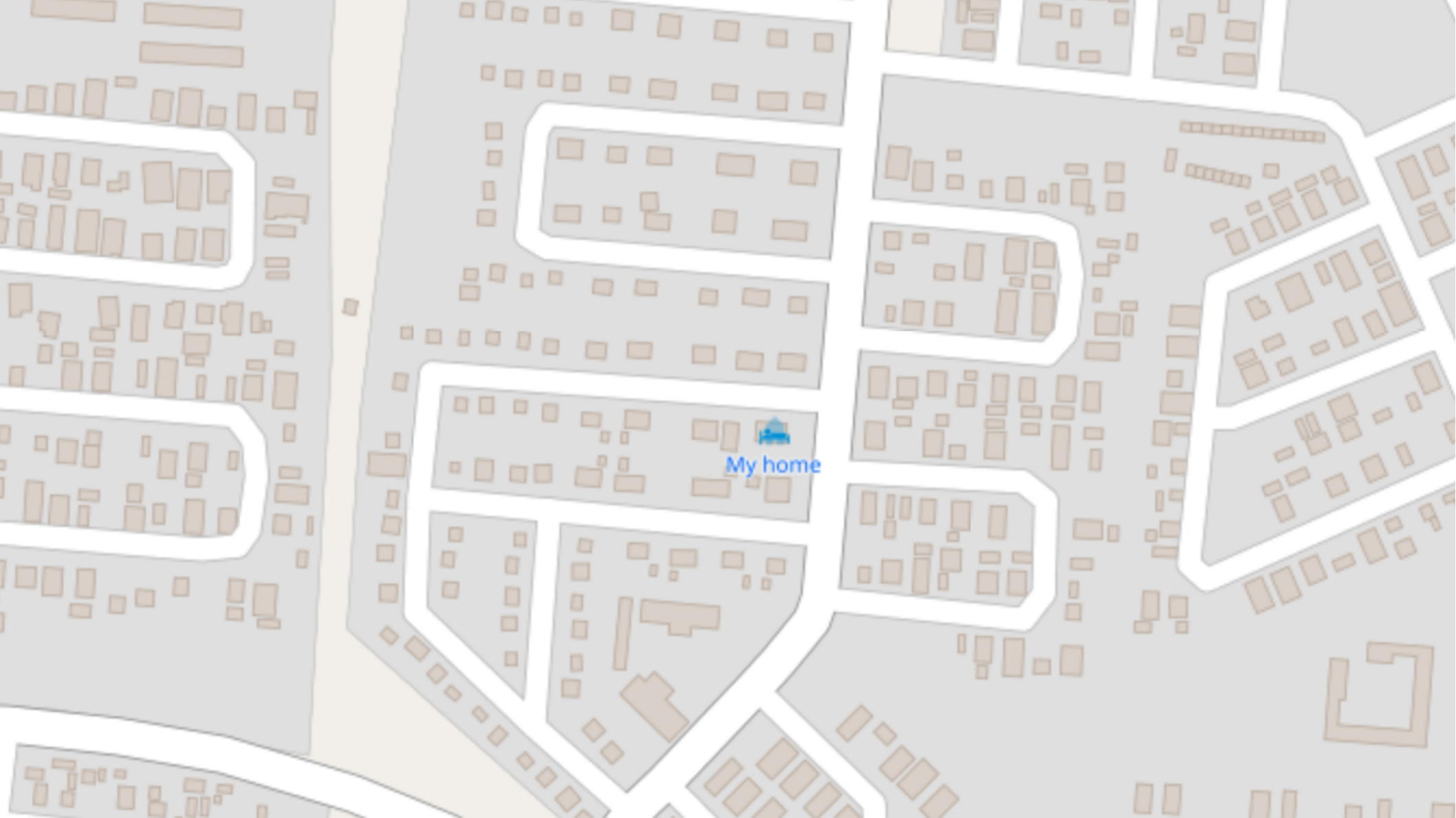
[tourism](#) | [alpine_hut](#)

The simplest editor

- No tags or presets
- No geometry or relations
- No changing types
- Works offline
- Uploads to OpenStreetMap



MEANWHILE...



My home

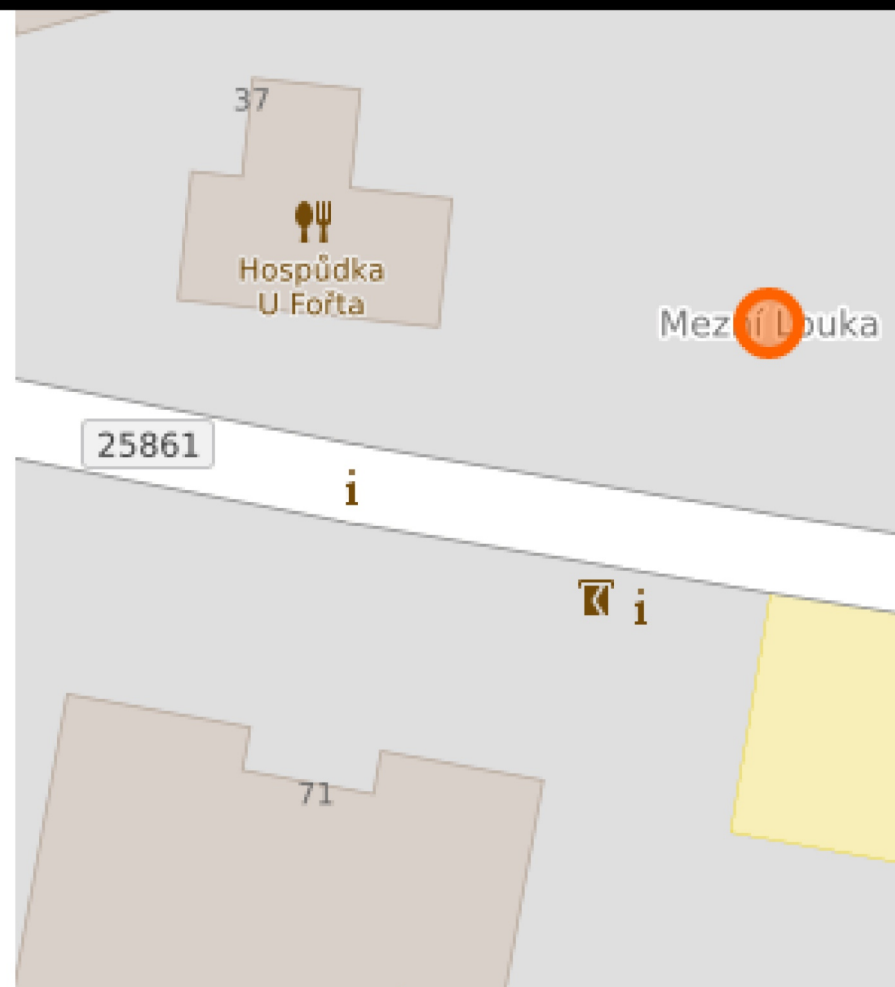
Edited 5 months ago by 李琪宏

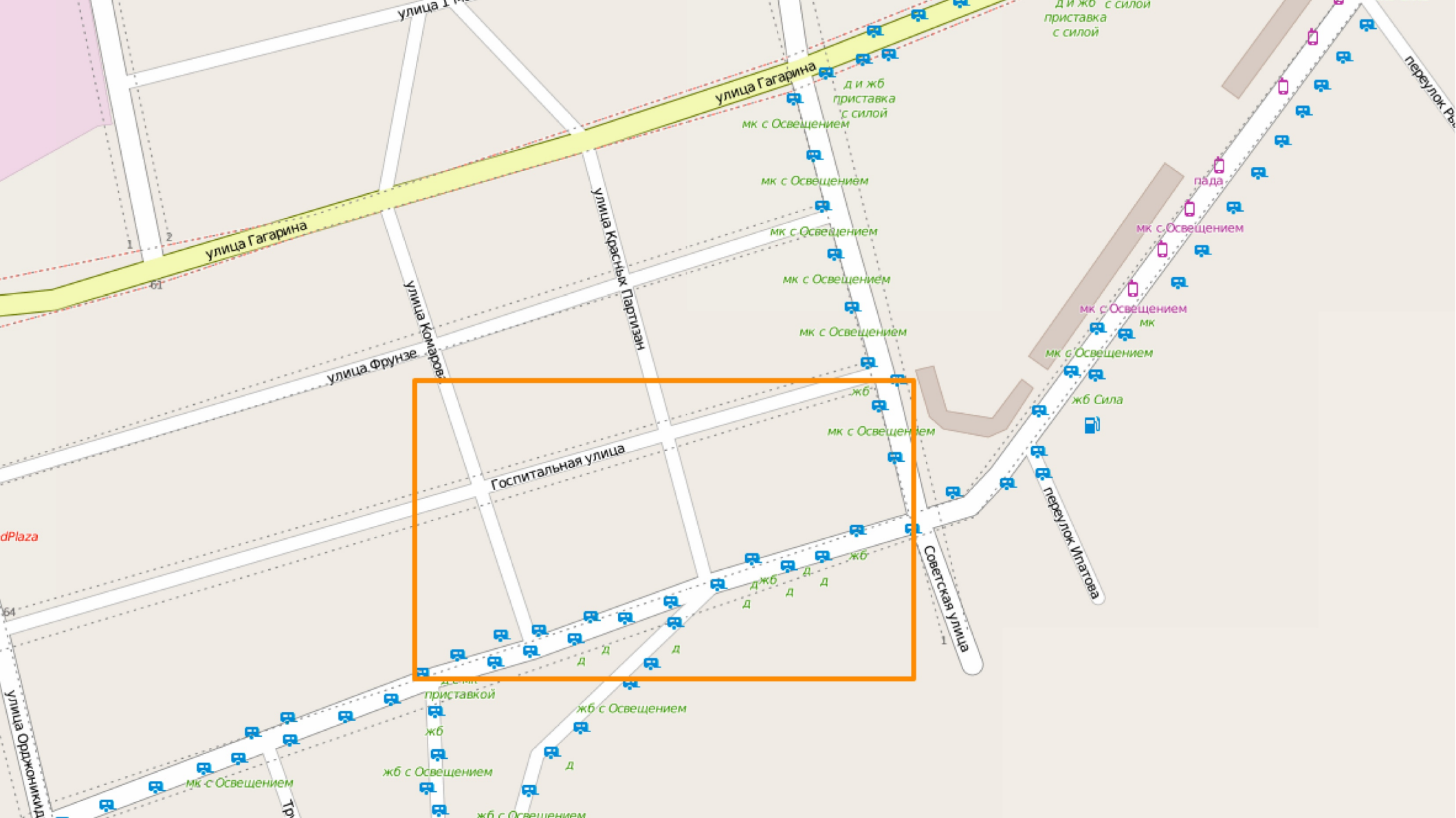
Version #15 · Changeset #39664718

Location: [50.8737055](#), [14.317415](#)

Tags

ele	279
name	U forta Mezní Louka:小 瑞士居住地
name:cs	Mezní Louka
name:de	Rainwiese
place	hamlet
population	4







(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



[Kossan](#) at 07.10.2016 12:26 in [42709667](#): modified [unknown](#) [JOSM Level0](#)

name:fr | SITARAIL

name Plateau

[jorj87](#) at 07.10.2016 11:46 in [42708897](#): modified [amenity=cafe](#) [JOSM Level0](#)

opening_hours | 24/7

amenity cafe

name | У Егорки

[jorj87](#) at 07.10.2016 11:46 in [42708897](#): modified [amenity=restaurant](#) [JOSM Level0](#)

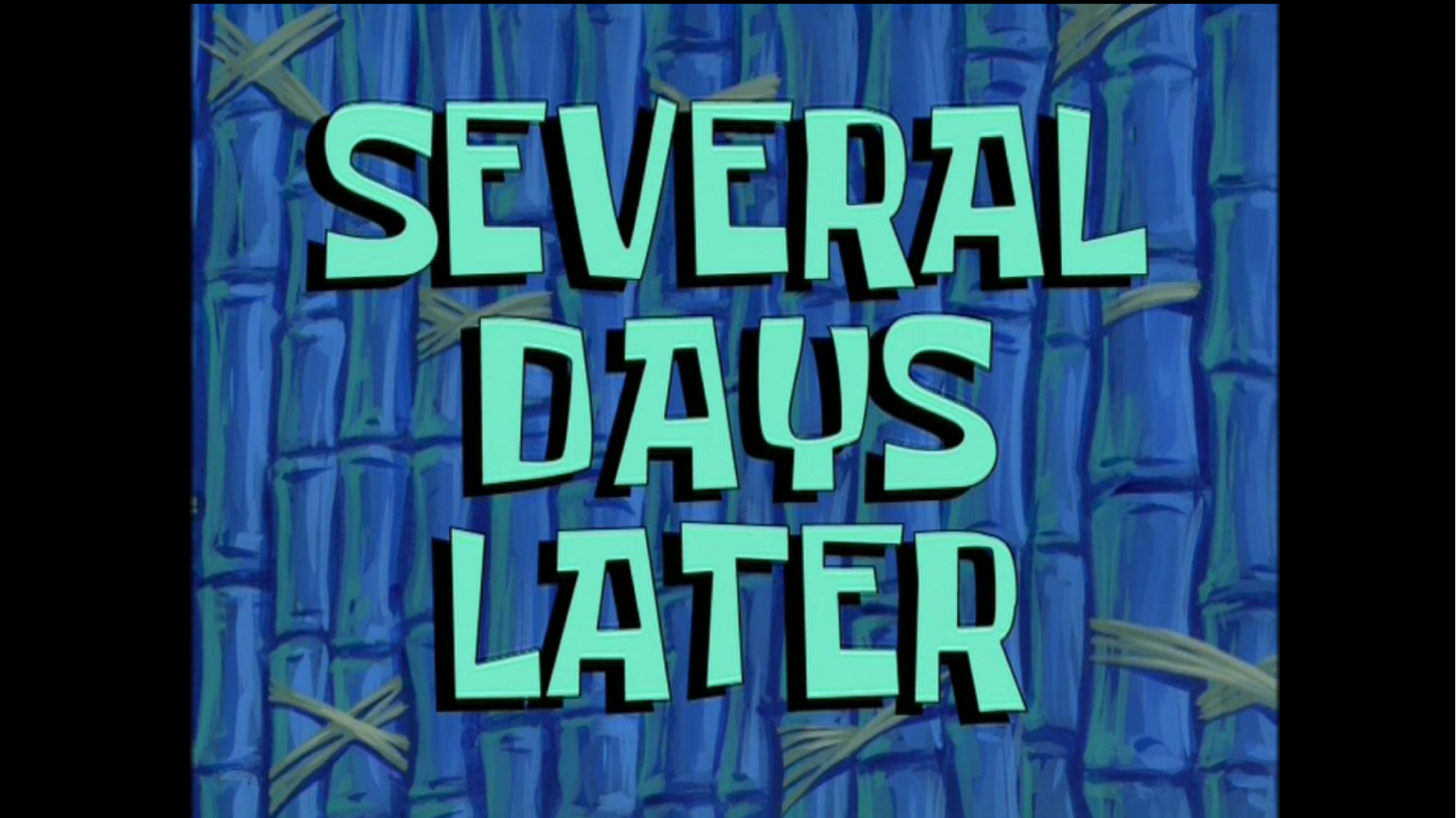
name:ru | Black cup

amenity restaurant

name Марше



my home



**SEVERAL
DAYS
LATER**

banner_url
ref:sponsored

wtf

[Владимир К](#) at 24.11.2016 06:02 in [43911578](#): modified [amenity=kindergarten](#) [JOSM Level0](#)

<i>building</i>		<i>kindergarten</i>
building:levels		2
<i>amenity</i>		<i>kindergarten</i>
<i>name</i>		<i>Д/С №363</i>
addr:street	Хавская улица	Khavskaya St

[Владимир К](#) at 24.11.2016 06:02 in [43911578](#): modified [building=yes](#) [JOSM Level0](#)

<i>building</i>		<i>yes</i>
building:levels		7
addr:street	улица Татищева	Tatishcheva Street

[Владимир К](#) at 24.11.2016 06:02 in [43911578](#): modified [building=yes](#) [JOSM Level0](#)

<i>building</i>		<i>yes</i>
building:levels		5

[Владимир К](#) at 24.11.2016 06:02 in [43911578](#): modified [building=apartments](#) [JOSM Level0](#)

<i>building</i>		<i>apartments</i>
building:levels		9
addr:street	улица Шухова	Shukhova Street



Цветочная улица

Богатая улица

Живописная улица

Великолпещицкая ул.

56

9

10

54

7

8

52

5

6

7

50

3

4

5

6

46

46a

1

2

3

4

178a

176a

1

2

7

180

178

174

6

Живописная улица

10

74

77

79

78

80

81

84

83

85

86

87

88

89

90

91

92

93

94

95

96

98



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!

Ilya Zverev, MAPS.ME
FOSDEM 2017