

How to get points of interest from OpenStreetMap

Ilja Zverev, NextGIS OÜ
SotM Baltics 2023

Rīga

BASEMAP

ELEVATION

BUILDINGS

SATELLITE

Vector geodata: easy to use layers, styles and project for your GIS.

Last updated: **Today** ?

Format:

GeoPackage (QGIS)

Current data 05.06.23

Historical data

👁 Samples

📁 Data structure

Select layers

Get 50% discount, if you order 5 layers or less.

☒ All layers

Basemap, GeoPackage (QGIS),
30 layers

€6

Order data

data.nextgis.com
download.geofabrik.de



Thank you!

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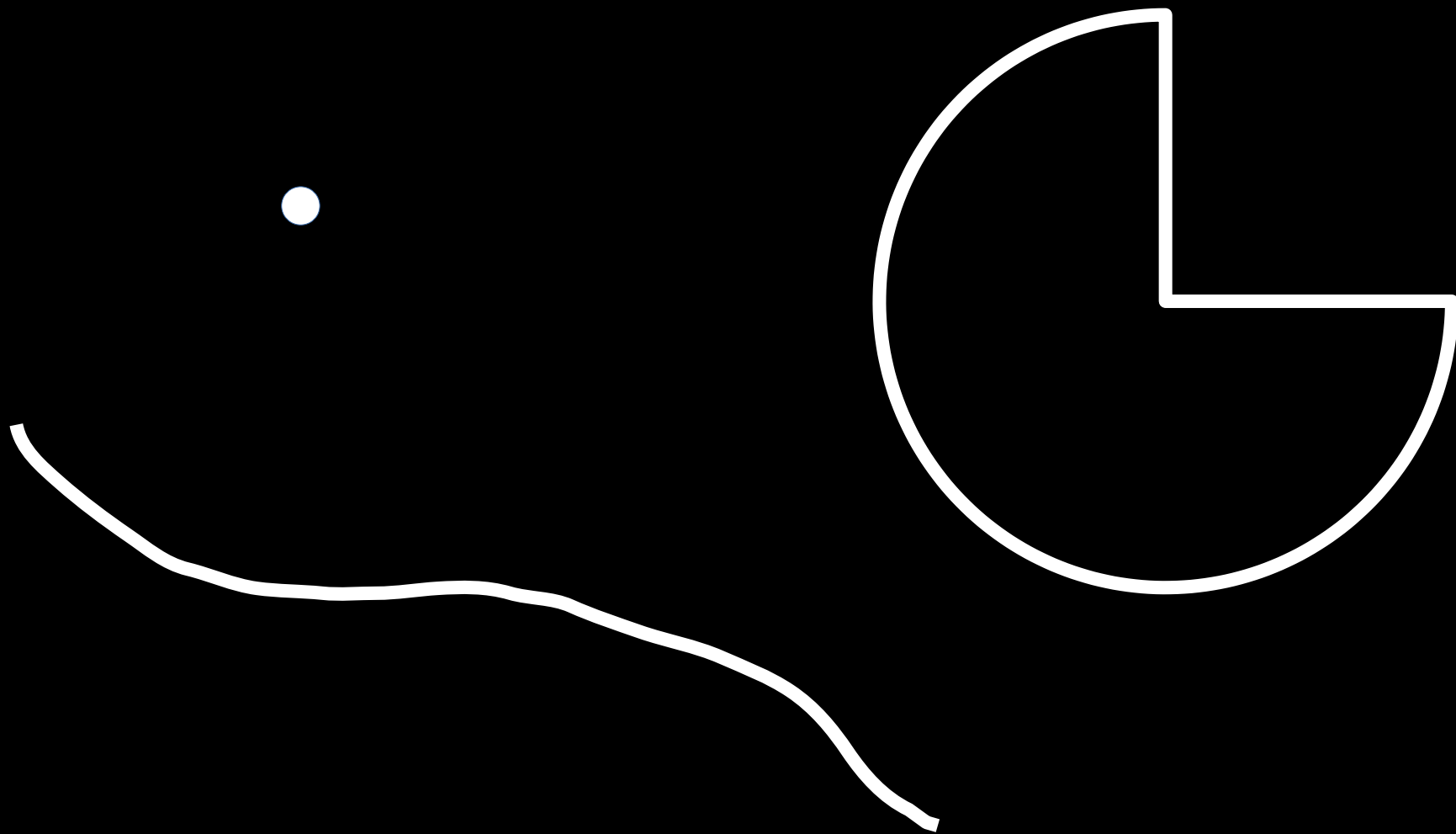
haha no

Some things I did

- Maps.Me POI attributes and editing
- Tools for mass importing POI to OSM
- Every Door POI editor
- Mapped more than a thousand shops
- This talk on using POI (pending)

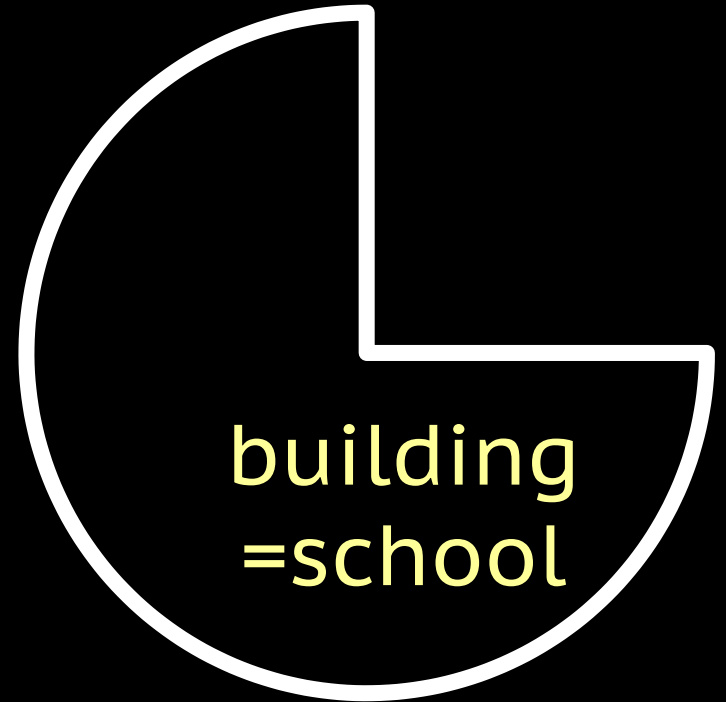
Other means

- QGIS → QuickOSM plugin
- Overpass Turbo → Export GeoJSON
- osmium export → GeoJSON / PostGIS
- JOSM (on the second thought, don't)



• natural=tree

waterway=river



building
=school

a street



a bench



Classification is Weird

- shop=convenience / supermarket
- shop=doityourself / hardware
- office=notary / lawyer=notary
- highway=bus_stop / public_transport=*
- amenity=embassy / office=diplomatic
- pub, bar, restaurant, cafe, fast_food...

Node **10604599784**

Tags **5**

EE:EHS:id = 765
EE:EHS:type = põhikool või gümnaasium
amenity = school
name = Tallinna Vanalinna Täiskasvanute
Gümnaasium
website = <https://tvvtg.ee/>

Coordinates:

59.4401312 / 24.7430062 (lat/lon)

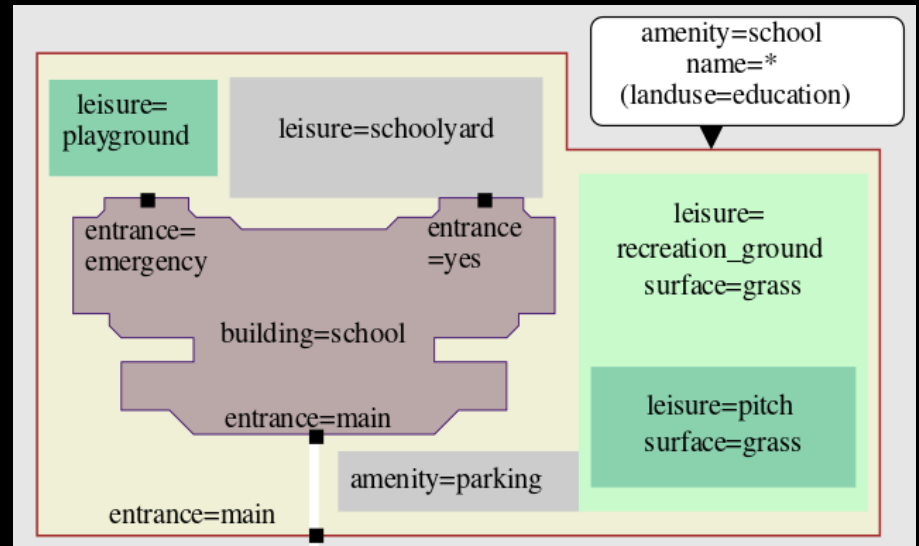
Way **836485901**

Tags **15**

EE:EHS:id = 480
EE:EHS:type = põhikool või gümnaasium
addr:city = Tallinn
addr:housenumber = 16
addr:street = Suur-Kloostri
alt_name = GAG
amenity = school
capacity = 1403
grades = 1-12
name = Gustav Adolfi Gümnaasium
name:de = Gustav-Adolf-Gymnasium
religion = none
start_date = 1631
website = <https://gag.ee>
wikidata = **Q2069101**

Polygonal POI

- Closer to truth
- A different thing from a point
- Non-trivial representative point



One or many?

 **AUTOPESU**
VÄLJA | EXIT | ВЫХОД



OLEREX

98
95
D

1 2

98
95
D

3 4

98
95
D

5 6

98
95
D

7 8



SHOECARE

Engraving

Pet Dishes

Traditional
Shoe Repairs

Watch
Batteries

Watch Batteries
& Straps - Fitted Here



SHOECARE

Since 1992

Shoe Repairs

Key Cutting

Engraving

Watch Batteries

Keys Cut

WHILE - U - WAIT



ask about our
Key Deals



Car
Remote
Batteries

Fitted Here

WHILE U WAIT

We only fit the Best



TRUSTED

quality batteries

Multiple vs Multi-function

- building + shop=supermarket
- barrier=fence + amenity=school
- amenity=fuel + shop=convenience???
- craft=key_cutter;shoemaker;taylor

Attributes

- name etc
- opening hours →
- phone, website etc
- operator
- payment
- etc etc etc

To describe the nth of a weekday each month:

`opening_hours=Mo 08:00-16:00; Mo[2] 08:00-12:00`

Open on Mondays from 8:00 to 16:00, but on the second Monday of each month, open from 8:00 to 12:00.

To describe the nth last of a weekday each month:

`opening_hours=Mo 08:00-16:00; Mo[-2] 08:00-12:00`

Open on Mondays from 8:00 to 16:00, but on the **second last** Monday of each month, open from 8:00 to 12:00.

To describe an entire month:

`opening_hours=Mo 08:00-16:00; Dec off`

Open on Mondays from 8:00 to 16:00, but closed in December.

A month is written using the first three letters of its name. (Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec)

To describe a day of a month:

`opening_hours=Mo-Fr 08:00-16:00; Dec 12 off`

Open on Mondays to Fridays from 8:00 to 16:00, but closed on December 12th.

Months can be combined with weekdays.

`opening_hours=Mo 08:00-16:00; Dec Mo 08:00-12:00`

Open on Mondays from 8:00 to 16:00, but in December is open on Mondays from 8:00 to 12:00





yes

no

limited



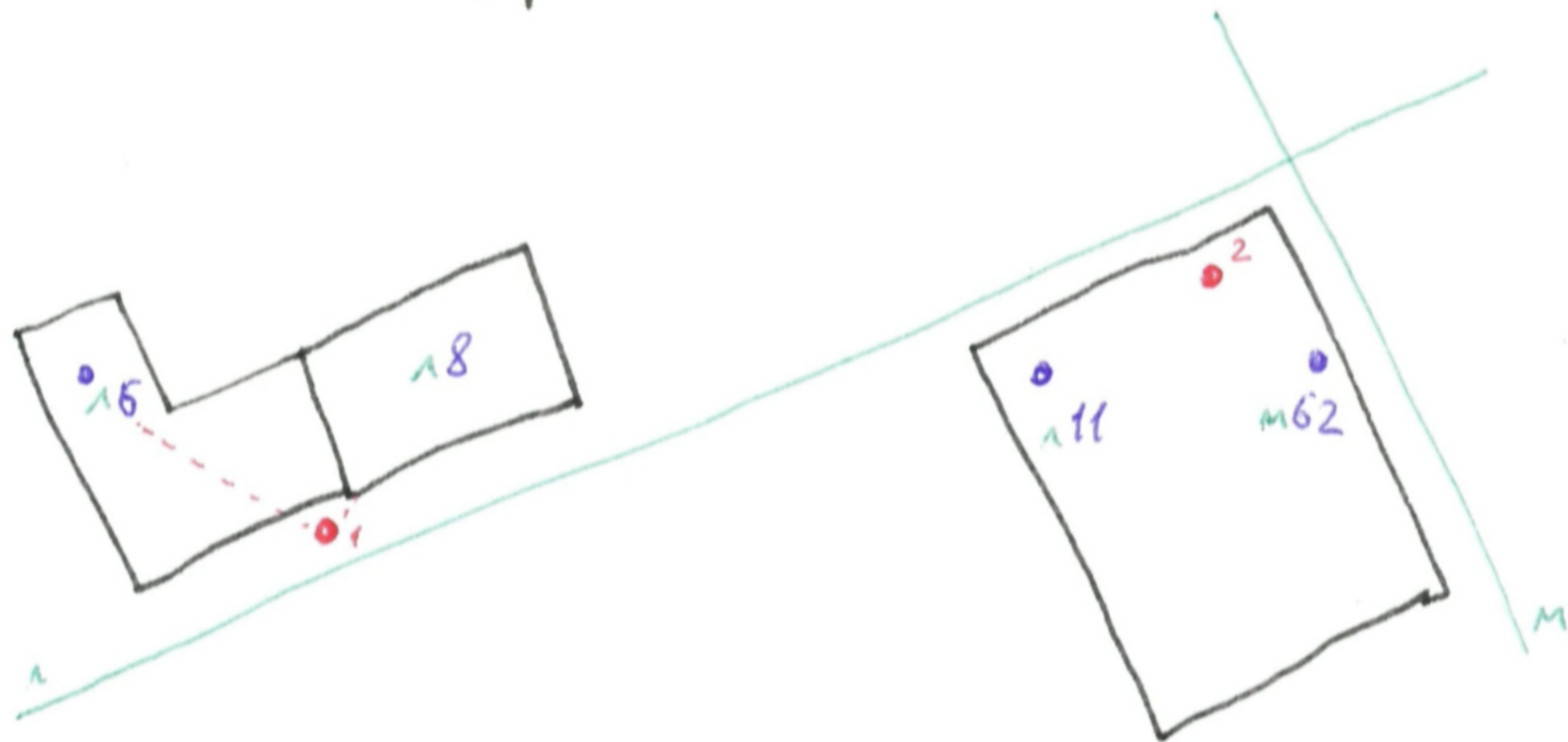
Attributes

- Study wiki.openstreetmap.org
- Sample some POI for surprises
- Check coverage with Taginfo and Overpass Turbo

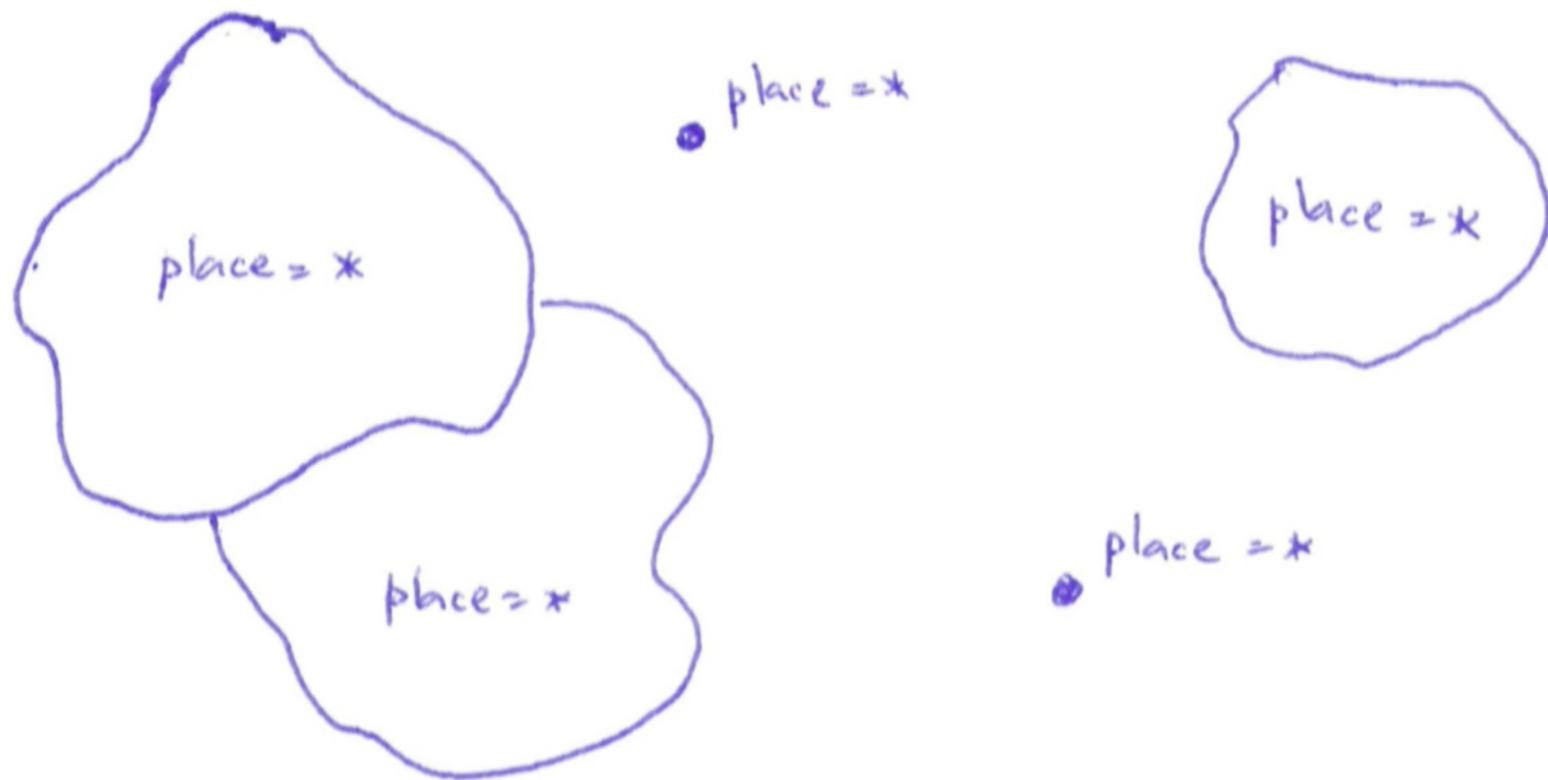


Addresses

Агрессивные точки

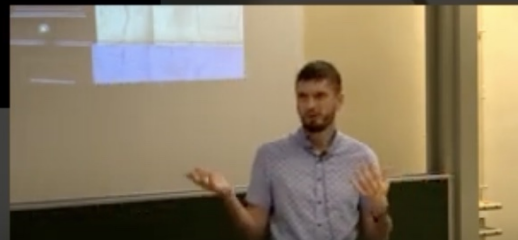


Горога





«Reverse Geocoding is not easy»



Floors and Rooms



- level
- addr:floor
- addr:door

Proprietary is Better?

Coverage

- Depends on surveyors in the area
- ...and on POI type
- Mostly bad
- ...but can be good enough
- Review date unknown
- Confirm with Overpass Turbo



СУШИШОП суши с собой



НОТАРИУС
тел. 9-55-33



МИНИМАРКЕТ СМАРТ



МД

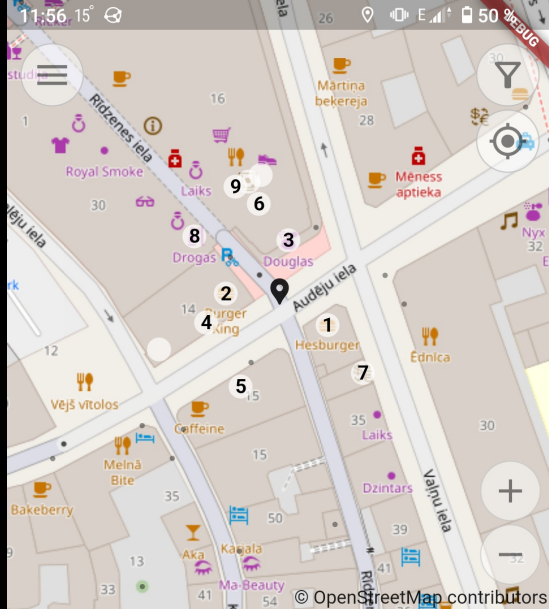


Quality

- The best there is



Every Door POI Editor



- ✓ 1. «Hesburger»
no [clock] [flag] [phone] [globe]
- ✓ 2. «Burger King»
no [clock] [flag] [phone] [globe]
- ✓ 3. perfumery «Douglas»
no [clock] [flag] [phone] [globe]
- ✓ 4. «KFC»
Su-Th 10-00; Fr-Sa 10-03
no [flag] [phone] [house]
- ✓ 5. «Maxima Express»
no [clock] [flag] [phone] [globe]
- ✓ 6. «Centrs»
no [clock] [flag] [phone] [globe]
- ✓ 7. bureau_de_change
no [clock] [flag] [phone] [globe]
- ✓ 8. chemist «Drogas»
Mo-Fr 09-22; Sa-Su 10-21
no [flag] [phone] [globe]

Supermarket

Name
Rimi

[L] latviešu valoda

16, Audēju iela 30, Kalēju iela 28, Va

/0 1 /2 /4

08-22

yes limited no

public customers no

accepted no card only

Telephone ✓

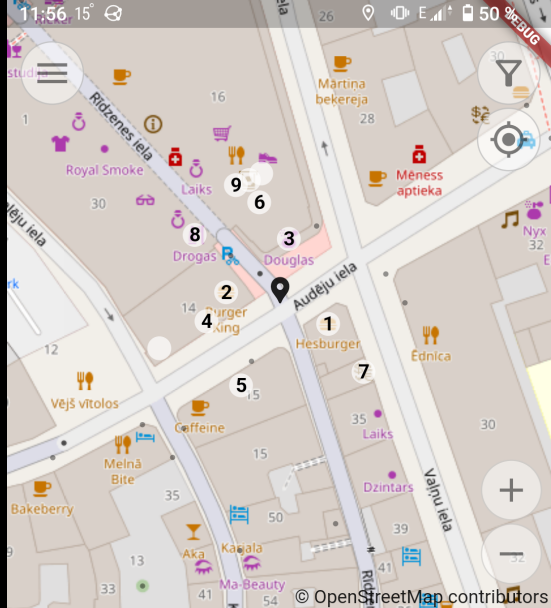
URL ✓
https://rimi.lv/ X

Email

Operator
SIA "Rimi Latvia"

Room Number

Save



- 1. «Hesburger»
no [clock] [flag] [phone] [globe]
- 2. «Burger King»
no [clock] [flag] [phone] [globe]
- 3. perfumery «Douglas»
no [clock] [flag] [phone] [globe]
- 4. «KFC»
Su-Th 10-00; Fr-Sa 10-03
no [flag] [phone] [home]
- 5. «Maxima Express»
no [clock] [flag] [phone] [globe]
- 6. «Centrs»
no [clock] [flag] [phone] [globe]
- 7. bureau_de_change
no [clock] [flag] [phone] [globe]
- 8. chemist «Drogas»
Mo-Fr 09-22; Sa-Su 10-21
no [flag] [phone] [globe]

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Telephone ✓

URL ✓
https://rimi.lv/ X

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Operator
SIA "Rimi Latvia"

Room Number

Save

Every Door

- State-of-art collection process
- More surveyors than in other maps
- ???
- Profit

So

Getting POI from OSM

- Points AND polygons
- Amateurish classification
- Needs reverse geocoding
- Quality > Coverage
- Gets better with experience and time

Thank you!

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