OSM Gazetteer

Scalable, Lightweight, Flexible
OSM Data indexer

https://github.com/kiselev-dv/gazetteer

http://5.34.183.32/static/gui.html

Problems

We don't have a tool to generate simple addresses and POI dumps for region.

Data processing takes a lot of time and resources.

We are not indexed by Google or Bing.

Adding a new addressing scheme to Nominatim is quite a pain.

One of the most popular questions:
— Where can I download CSV with addresses and coordinates or with POIs? Is it somewhere in planet.pbf?
— Nowhere. You should learn postgis, parse osm data, and also you should discover our 10 ways of addresses mapping.
— Fuuuuu.jpg

Also you should know that days for data processing will take several days and don't forget about country-local addressing schemes!

Map conversion for GPS devices has nearly the same problems. You have to know about local traits, you should make many geographic calculations, more over you should build addresses index. And all these for many GPS devices map formats.

And it's not a problem, only in Russia we have 2 or 3 daily converted GPS maps that cover whole country.

So why not to use the same approach for addresses?

Country communities have knowledge and resources, just give them a good tool.

Simplicity

Keep your application simple.

I drop PostGIS, because it's slow, and there are few people who can write good geospatial queries, at least do it well.

I don't need osmosis or osm2pgsql.

I use JSON almost everywhere. You can access data just with grep. Anybody can easily access my data and extend it.

Showcase

- I build index of Russian addresses and upload it into elasticsearch within 3 hours. (As far as I know building the same index with postgis takes 2 days)
- I have support for interpolated addresses, associatedStreets and different multiaddressing schemes.
- I index data for the nearest and neighbor streets and towns.
- I can generate site.xml and HTML for Google or Bing indexing.
- You can get CSV with all GB or RU addresses in 2 or 3 hours.