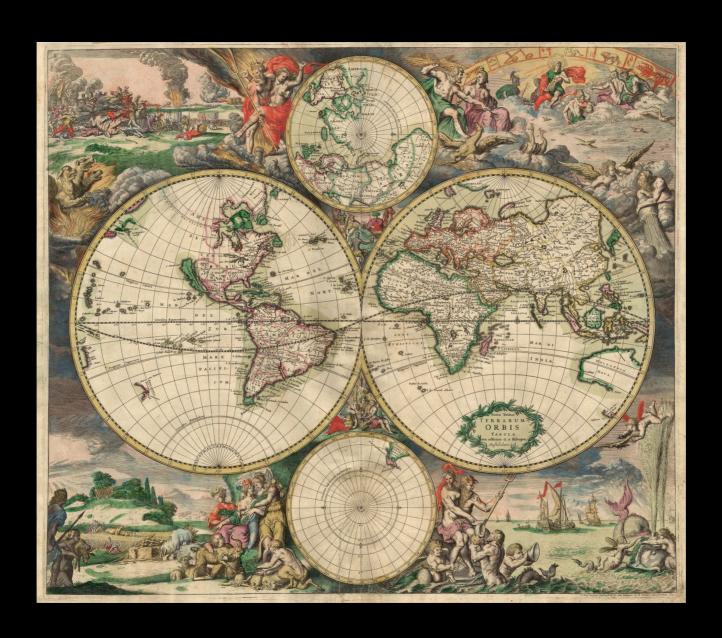
Creating Quality the OSM Way



Jochen Topf, Geofabrik GmbH

Top-Down Approach

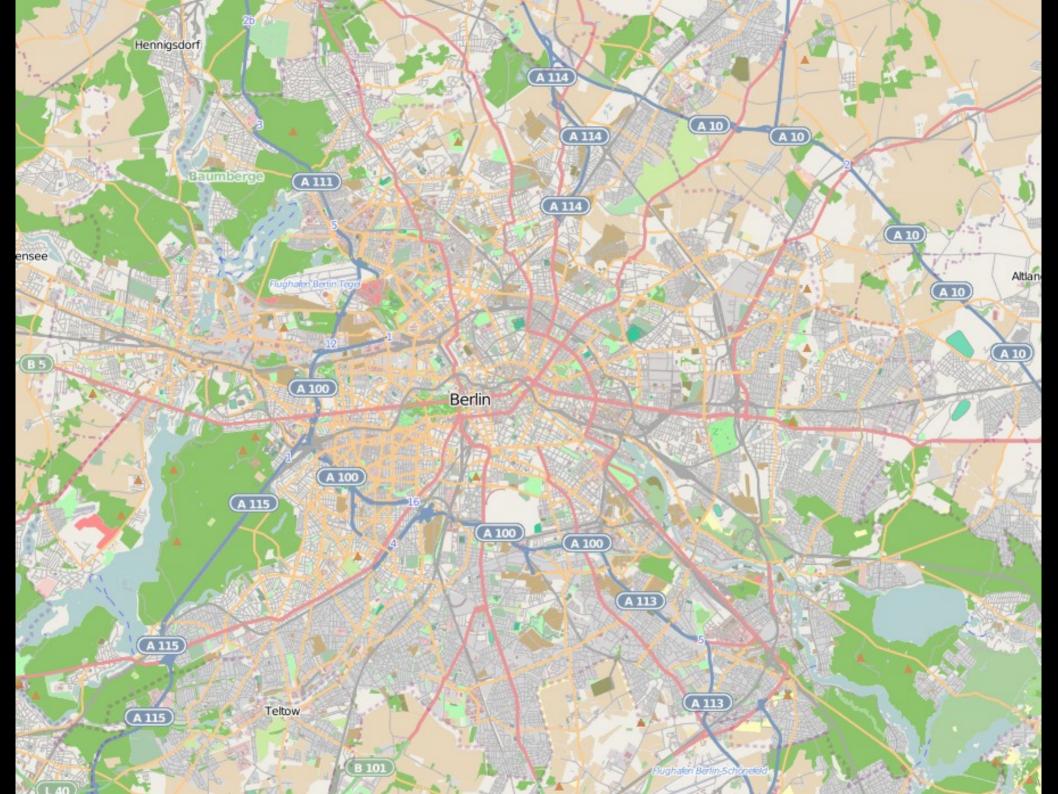
- What data do we need?
- What structure should the data have?
- Which features and attributes do we want?
- What geometric accuracy is needed?
- How many errors of what kind can we tolerate?

OpenStreetMap is different

- No planning
- Almost no rules
- No defined usage
- No definite list of features or attributes
- No rules on how accurate the geographical position needs to be

Step-by-Step Approach

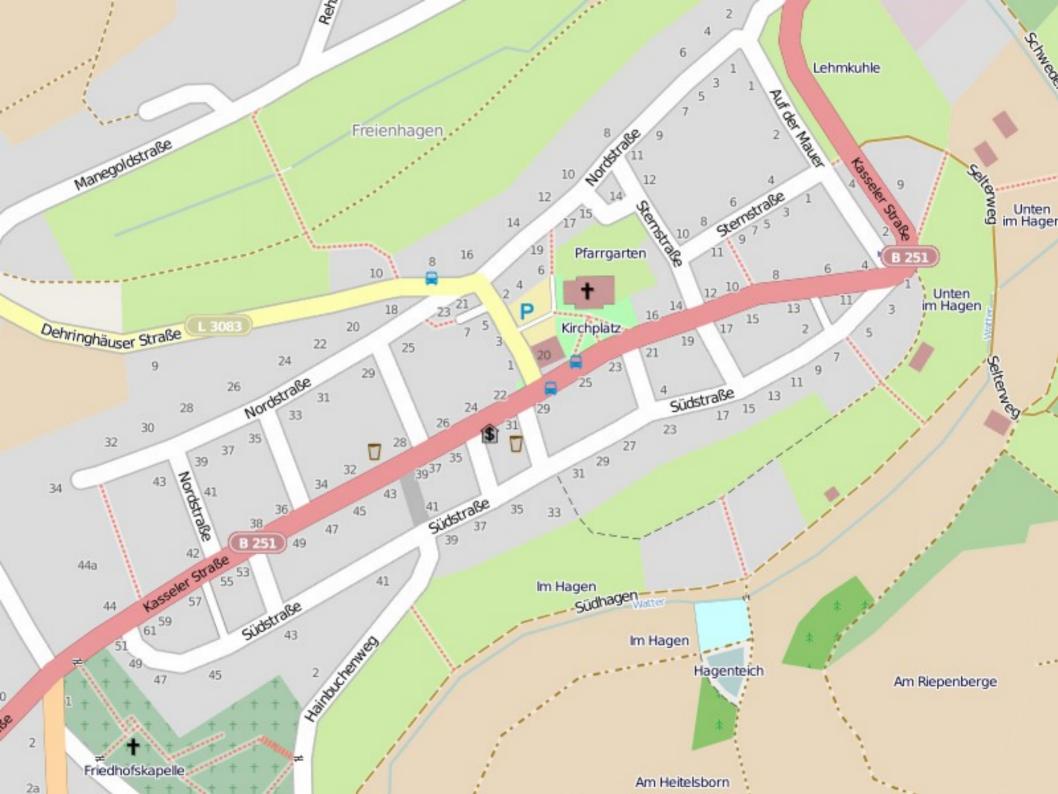








http://www.flickr.com/photos/tomsaint/3431708779 CC-BY



Improving OpenStreetMap Step by Step

Finding and Fixing Errors Step by Step

by asking people who know

OpenStreetBugs

Feel free to put on the map the modifications you would like to see on

OpenStreetMap (name of a street, incorrect junction, amenity, etc.)

Do NOT use licensed data

like paper maps, Google Maps, etc. Use only your knowledge of the reality or public domain data.

According to the OpenStreetMap license, the data that you add on the map will be licensed CC BY-SA.

Blog, Credits, Stats, etc.

Use the button (on the top of the map) to add a point.

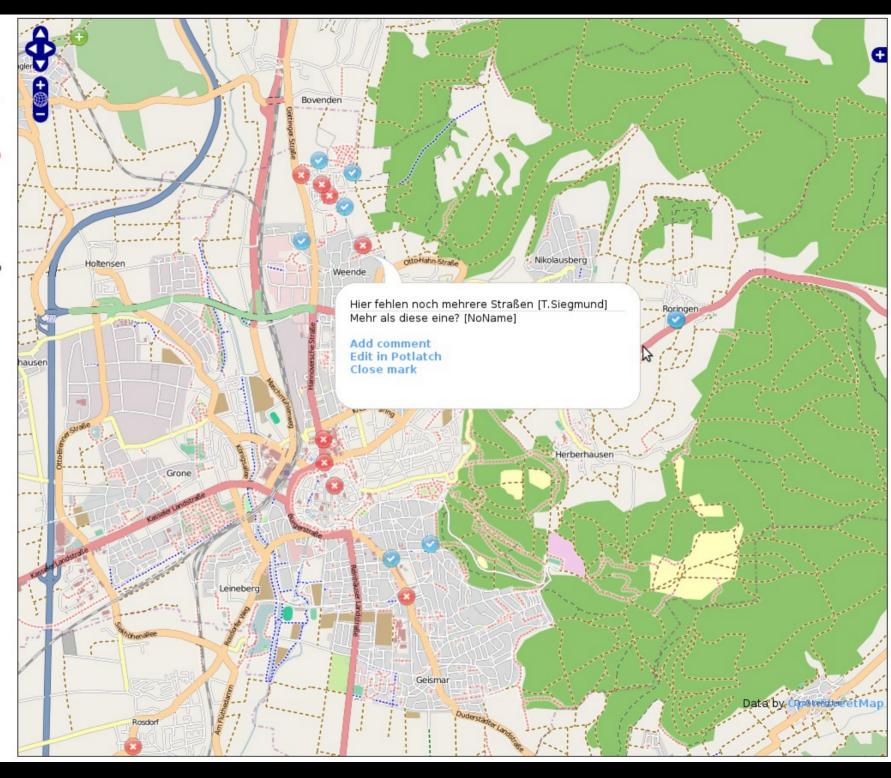
Nickname or name:

NoName

Permalink

As RSS feed

As GPX file



OpenStreetBugs - RssBox

Bugs from OpenStreetBugs

Z

Neuenburg am Rhein [DE]: Fehlt hier layer + brücke/ Tunnel oder sollten die Straßen verbunden sein? [Etric]

Brücke eingefügt [NoName]

Oberrimsingen [DE]: Golfplatz fehlt [finu]

11/02/2008 01:47 PM

Golfplatz fehlt [finu]

Unknown: skilift? [NoName]

03/13/2009 05:31 PM

skilift? [NoName]

Herdern [DE]: Abbiege-restriction unvollständig [hollala, 07.03.09 13:46:43 MEZ]

03/07/2009 01:46 PM

Abbiege-restriction unvollständig [hollala, 07.03.09 13:46:43 MEZ]

Aha [DE]: Brücke oder Bahnübergang? [Cobra, 20.02.09 11:04:11 CET]

02/20/2009 11:04 AM

Brücke oder Bahnübergang? [Cobra, 20.02.09 11:04:11 CET]

Rötenbach [DE]: hier fehlt noch eine Auf- und Abfahrt für die Gegenrichtung [Cobra, 15.02.09 10:30:14 CET]

hier fehlt noch eine Auf- und Abfahrt für die Gegenrichtung [Cobra, 15.02.09 10:30:14 CET]

Löffingen [DE]: Brücke oder Bahnübergang? [Cobra, 15.02.09 10:26:59 CET]

02/15/2009 10:27 AM

Brücke oder Bahnübergang? [Cobra, 15.02.09 10:26:59 CET]

Haslach [DE]: Gabelsbergerstraße [forkhill]

02/06/2009 10:27 PM

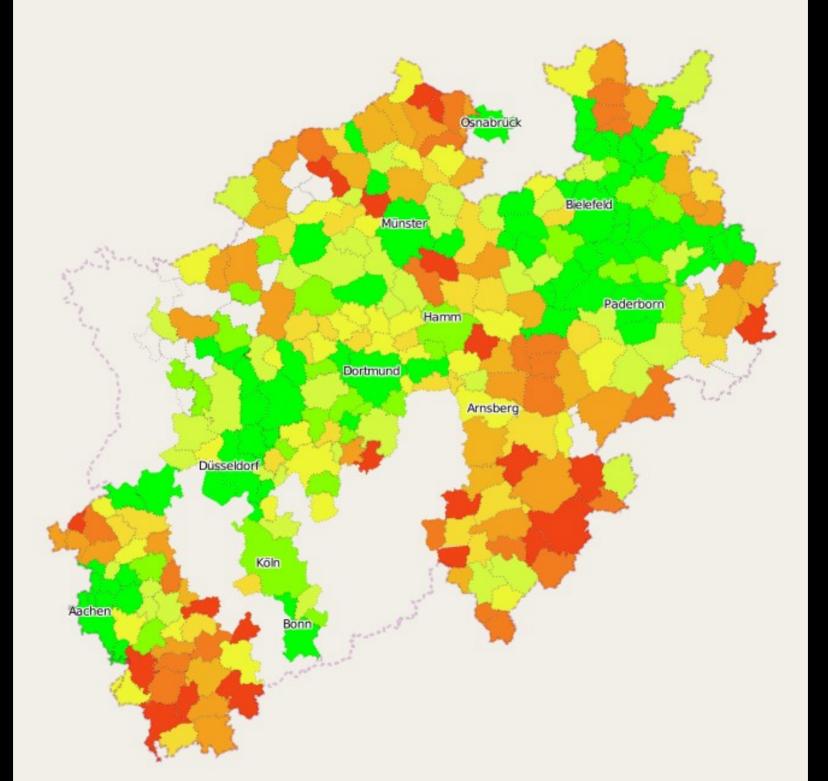
falsch geschrieben auf der Karte [forkhill]

Stegen [DE]: Hier fehlt noch die Schauinslandstraße [NoName]

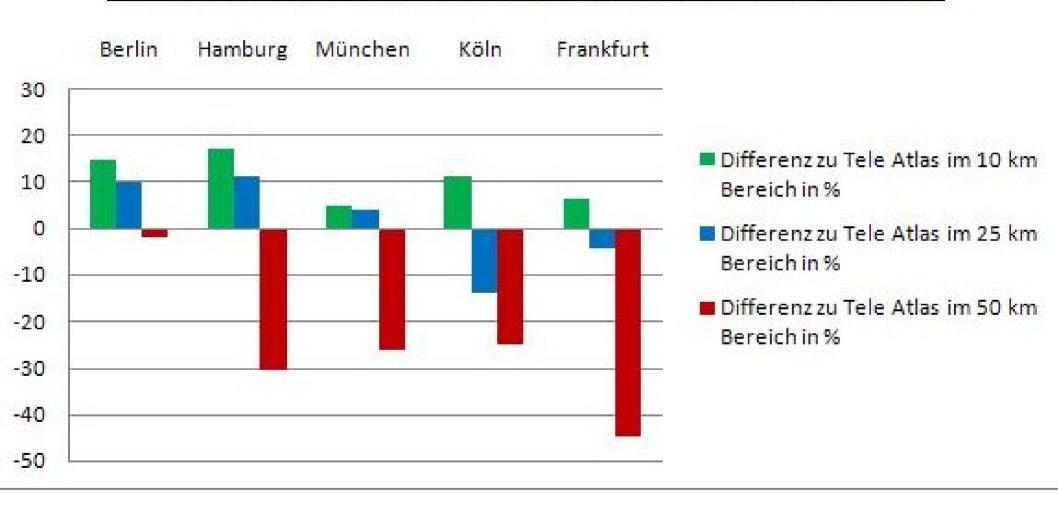
02/01/2009 08:19 PM

Hier fehlt noch die Schauinslandstraße [NoName]

by comparing with external data

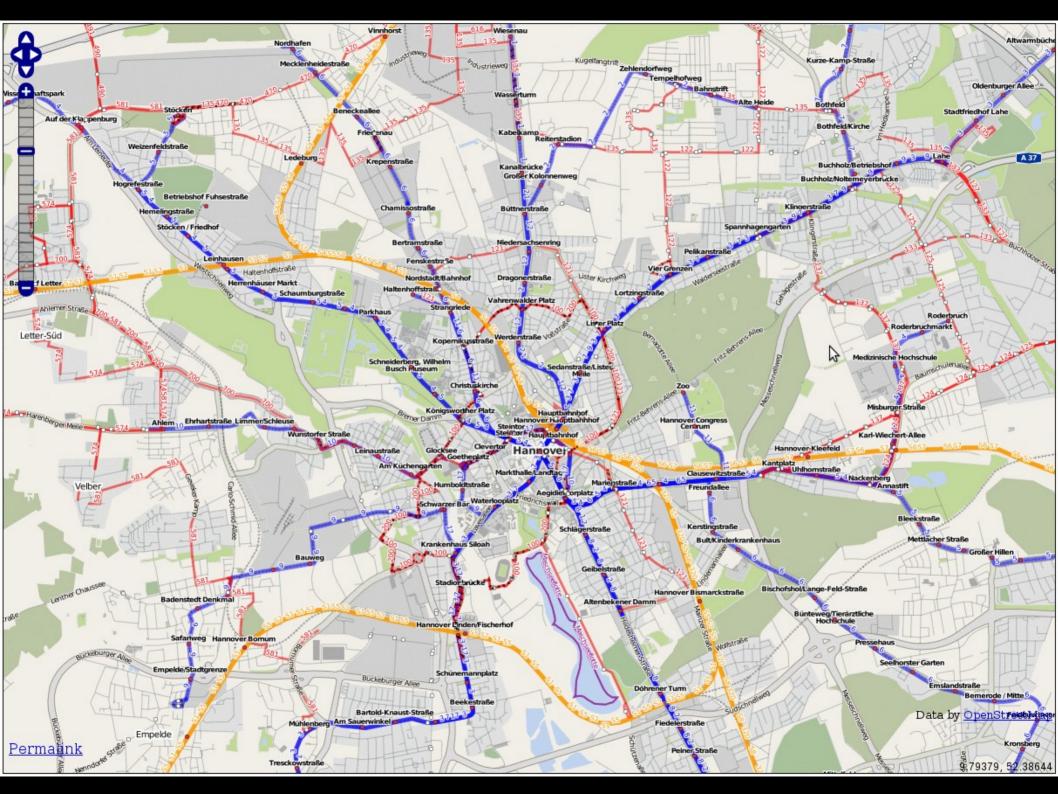


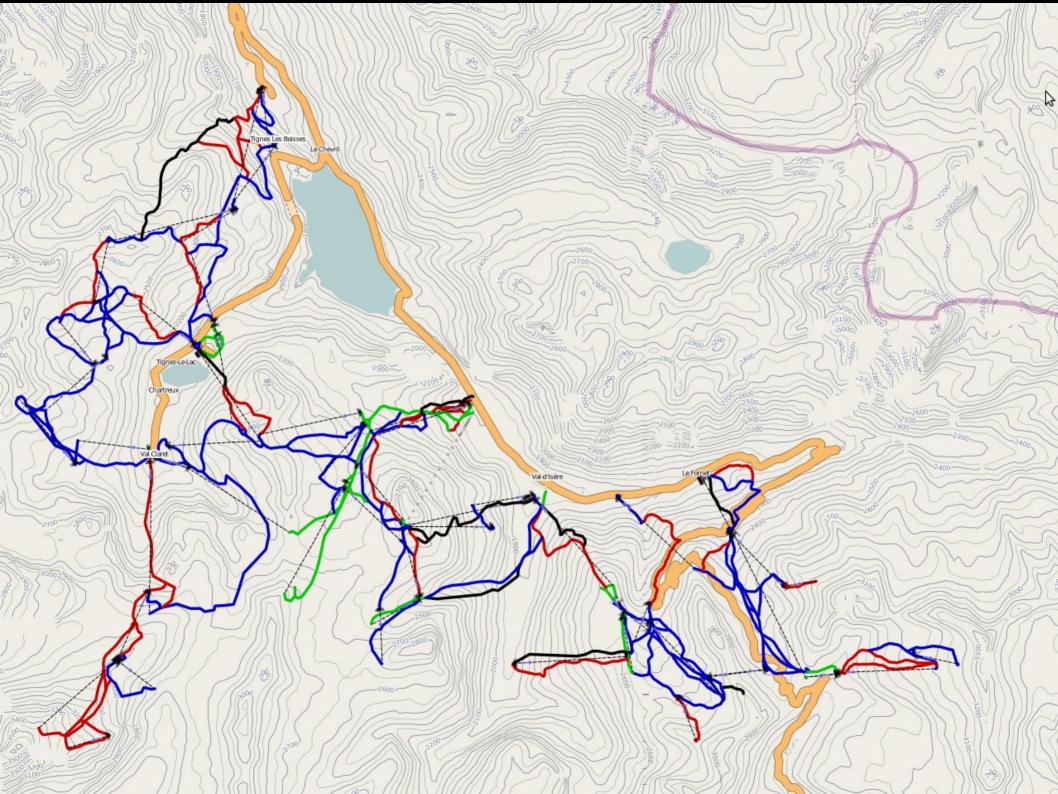
<u>Datenvollständigkeit von OpenStreetMap</u> verglichen mit TeleAtlas im Stadtgebiet und Umland



Diploma thesis of Dennis Zielstra, Uni Bonn

by preparing special maps





(A) Help



Overlays

Nearest roads

- Connection lines
- Connection point on roads
- House number interpolation lines
- Buildings
- Buildings with addresses
- Ways tagged with postal code
- Interpolation errors
- Street not found
- Nodes with interpolated addresses
- Nodes with defined addresses



Selection



layer: buildings_with_addresses

way id: 23965444 street: Hertzstraße

houseno: 122 postcode: 76187 city: Karlsruhe

country: DE fulladdr:

lastchange: 2009-01-22 03:47:03

Nodes with defined addresses

Only 100 features are shown. There might

node_id way_id ip_id is_ip street 🔍 267147404 false Wattst

Q 267147405

false Wattst **Q** 267147410 false Wattst false Wattst

267154775

false Daiml **Q** 267154784 false Daiml

Q 267154786

false Daiml **1** 267154790 false Daiml

false Daiml

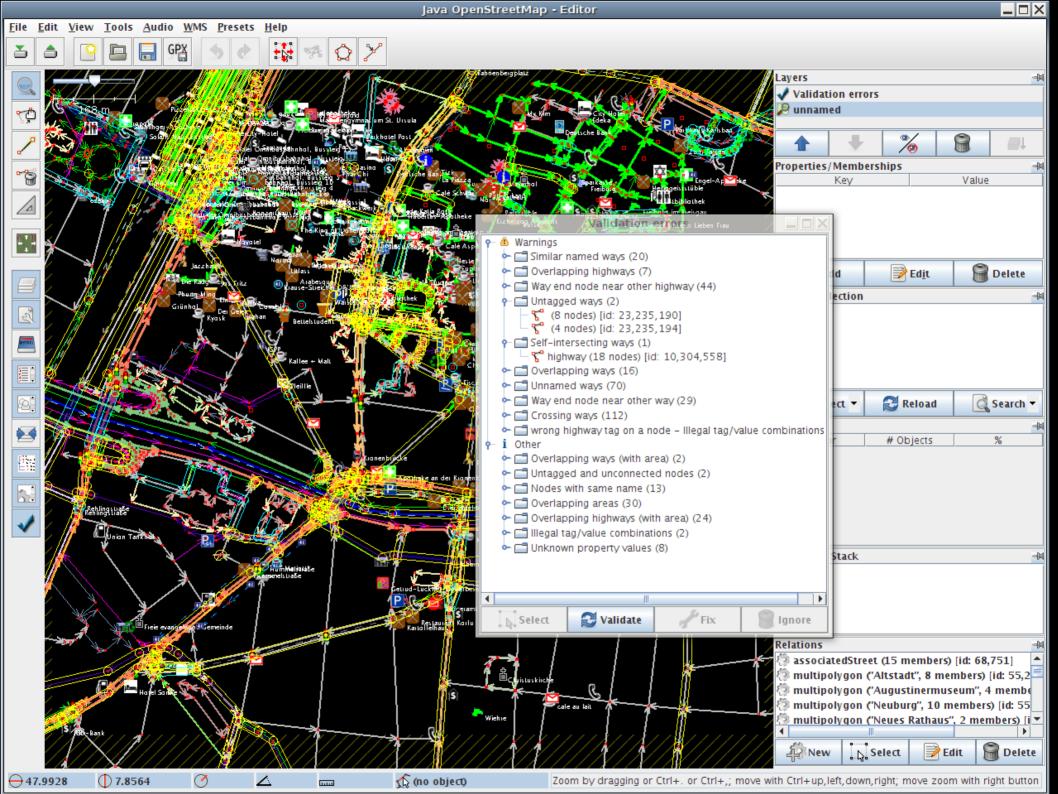
Q 267154796

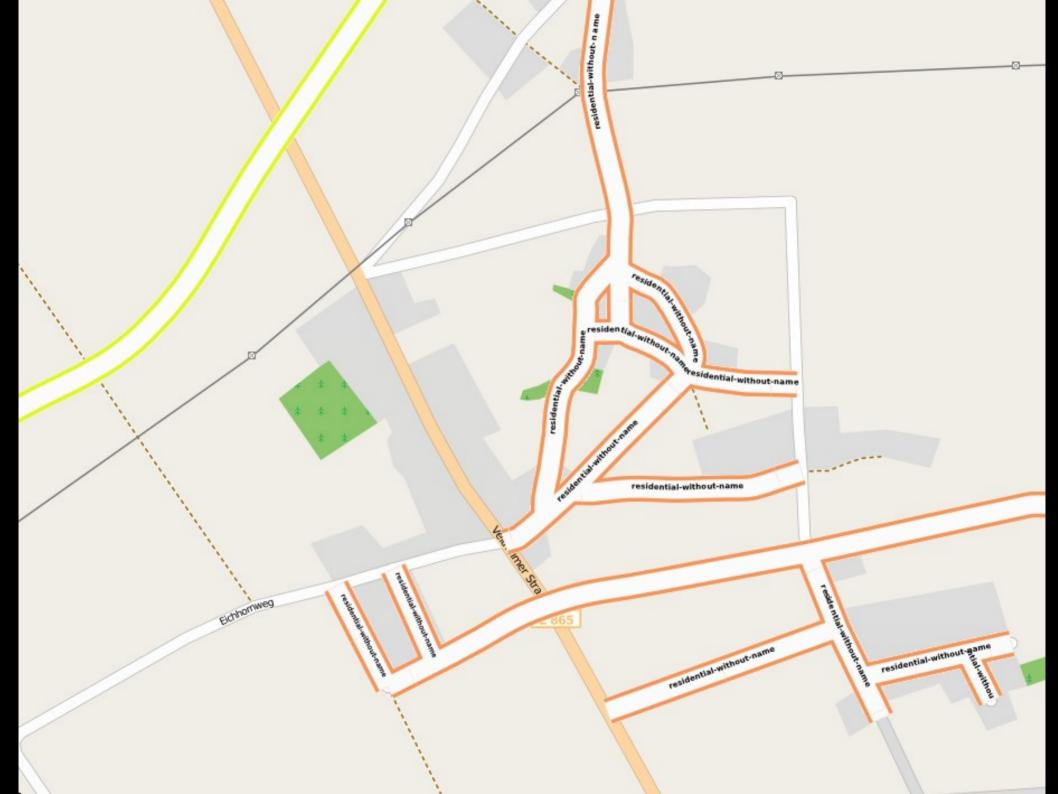
false Daiml <u>267154799</u>

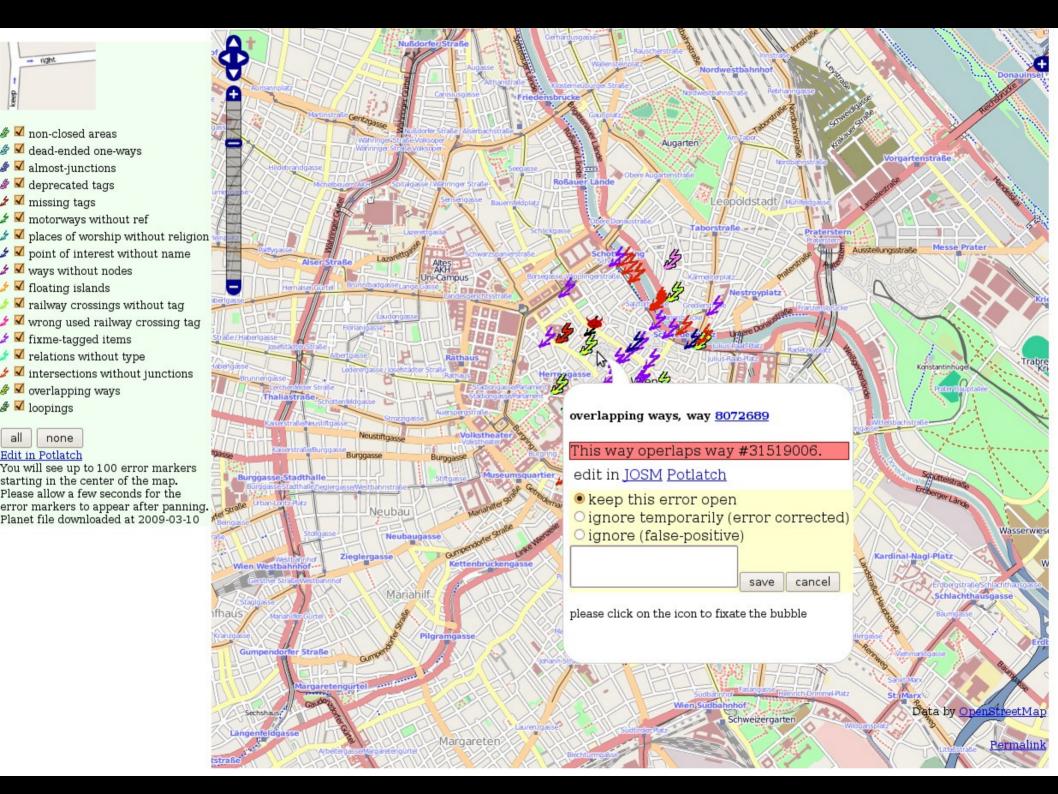
Data from 2009-03-14 00:59:30

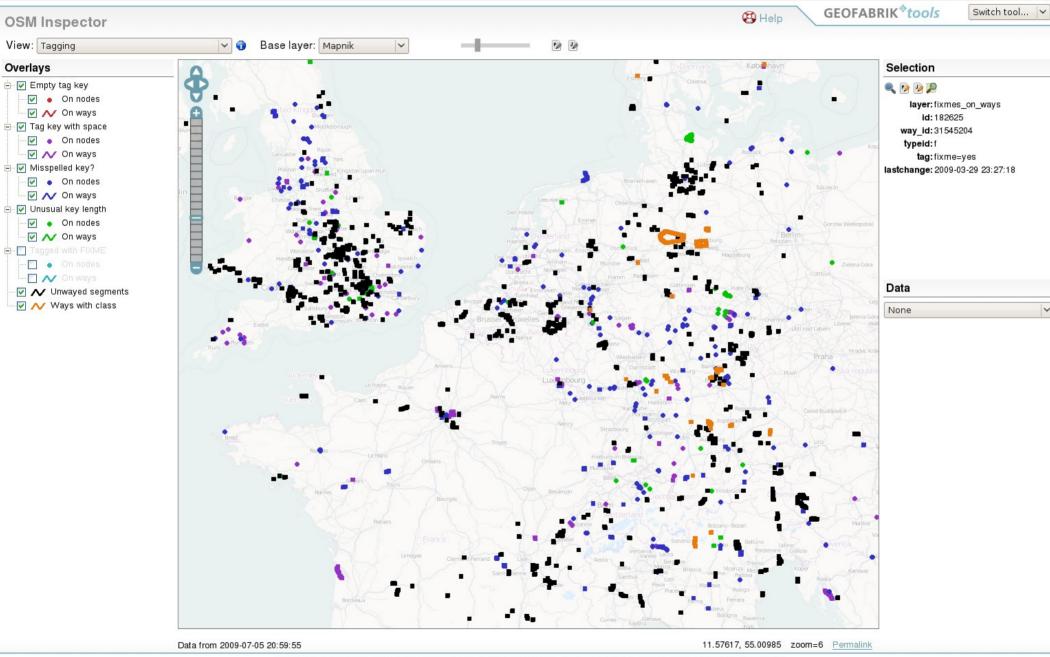
8.37200, 49.02913 zoom=16

by checking internal consistency

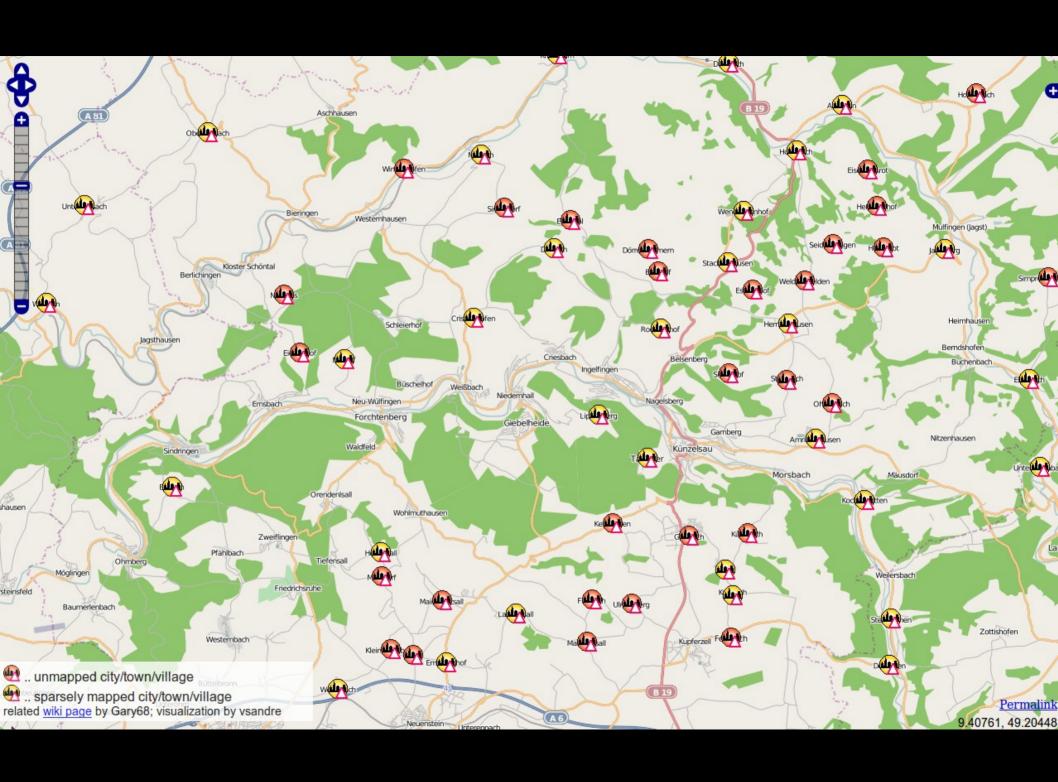






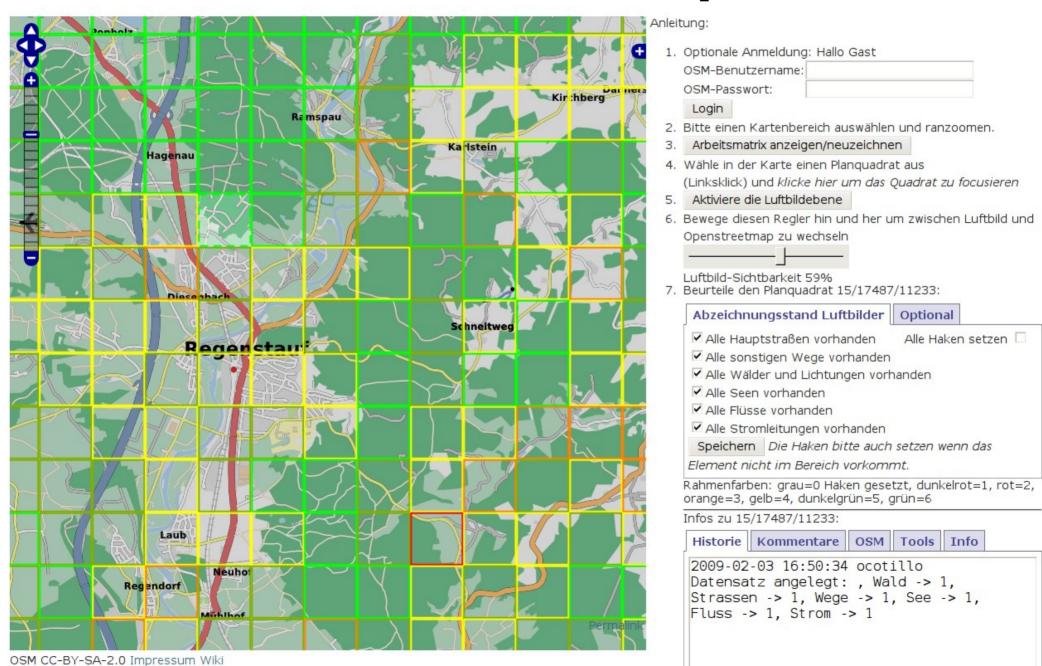


by using heuristics

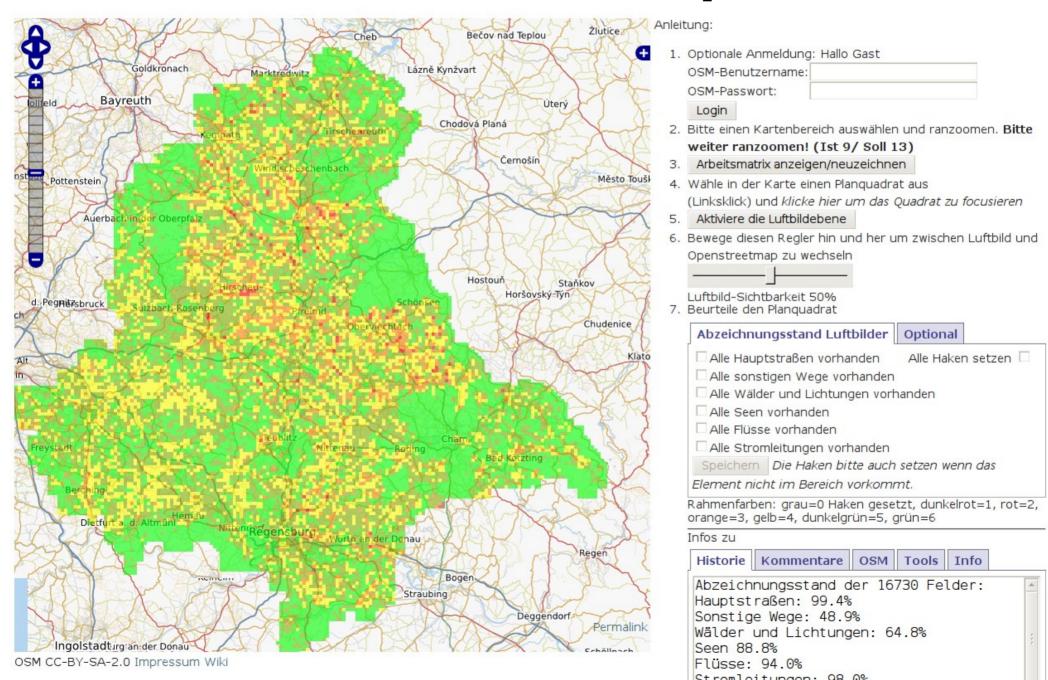


systematically

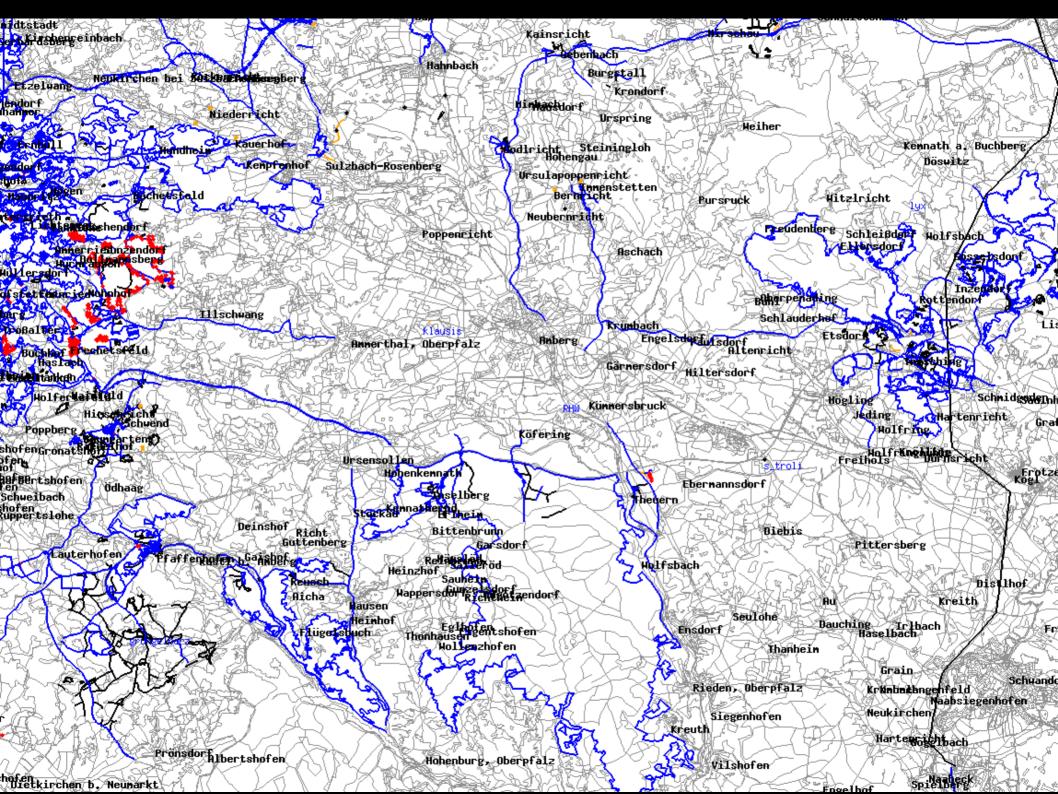
Work Matrix Oberpfalz



Work Matrix Oberpfalz



Watching Changes



Creating Quality

Ad Hoc

Crowdsourcing

Start with something — Keep enhancing

Want More Quality?

Create Special Maps

Create Tools

Foster Competition

wiki.openstreetmap.org/wiki/User:Gary68 tools.geofabrik.de/osmi openstreetbugs.org keepright.ipax.at

Jochen Topf topf@geofabrik.de

