

Editing Large-Scale Objects

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at SOTM-EU 2014 in Karlsruhe

Overview

1. Use of large scale objects
2. Tools for editing
3. Pitfalls

1. Use of large scale objects

Lunch of OSM France with François Hollande

OSM permet enfin de dépasser les frontières du silo "France"

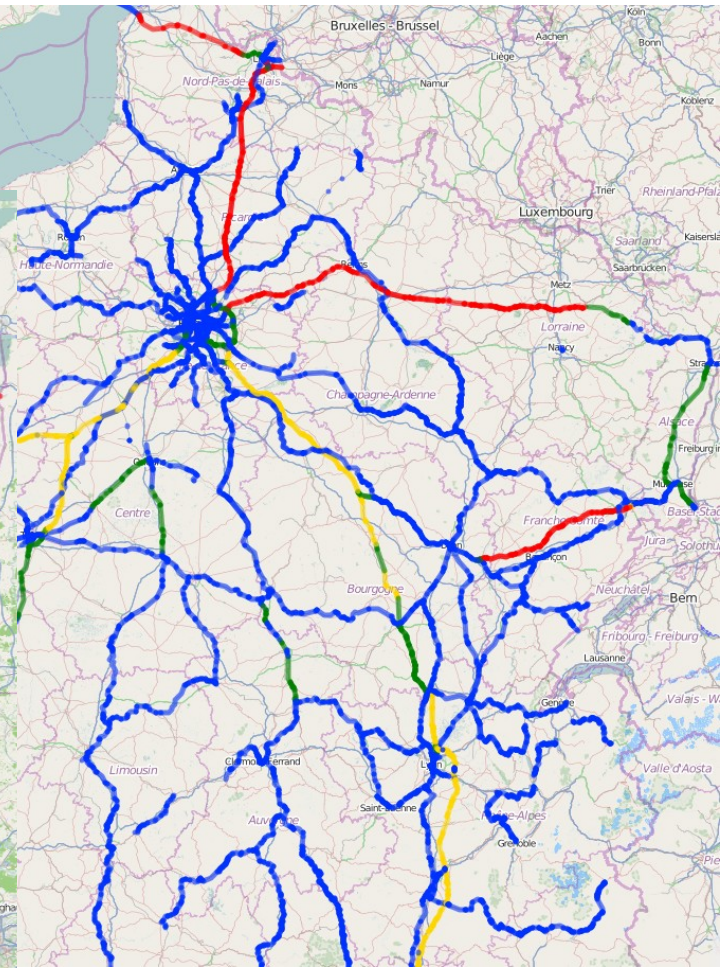
**OSM allows the data in France to get out of its prison
(in the administration's format)**

We are happy that you collected the dataset nationwide and beyond. Now we can defeat confidentiality requirements from third parties, because the data is already public.

[Representative of a German authority]

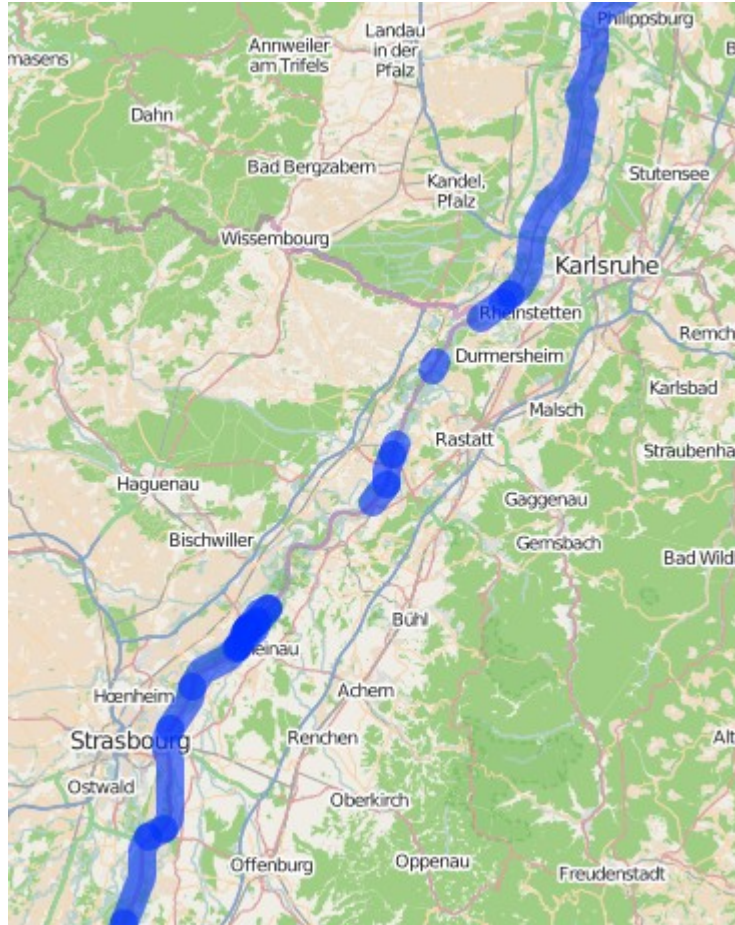
**=> „Publish“ gets synonymous for
„curate in OpenStreetMap“**

Power lines



Railway main lines

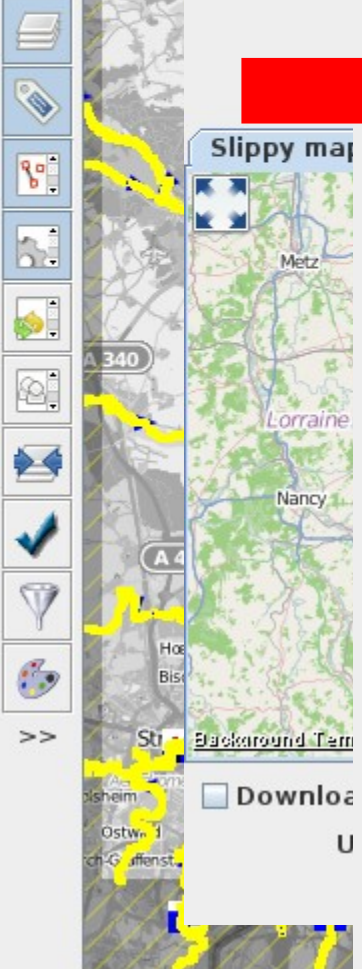
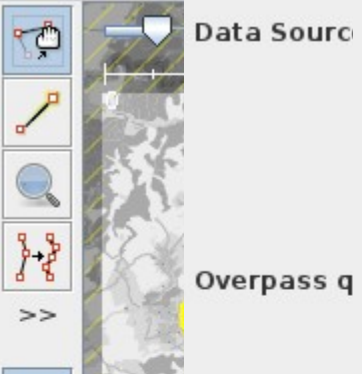
Rivers



Repair the Rhine!

(after asking last editing mapper)

2. Tools for editing



Imagery Preferences

Modify list of imagery providers displayed in the Imagery menu

Imagery providers Settings Offset bookmarks

Available default entries:

Menu Name	Imagery URL (Default)
Bing Sat	bing[22]:http://www.bing.co...
HDM (Humani...	tms[20]:http://{switch:a,b,c...
Landsat	wms:http://irs.gis-lab.info?!...
MapBox Satel...	tms[19]:http://{switch:a,b,c...
MapQuest OSM	tms[18]:http://otile-{switch:...
MapQuest Op...	tms:http://oatile-{switch:1,2...
OpenCycleMap	tms[17]:http://tile.opencycl...
OpenPT Map ...	tms[4,17]:http://openptma...
OpenStreetM...	tms[18]:http://{switch:a,b,c...
OpenStreetM...	tms[18]:http://{switch:a,b,c...
OpenStreetM...	tms[19]:https://{switch:a,b,...
OpenStreetM...	tms[18]:http://www.toolserv...
OpenStreetM...	tms[20]:https://gps-{switch...
Public Transp...	tms[18]:http://tile.memoma...
Strava cyclin...	tms[3,17]:http://gometry.st...
Strava runnin...	tms[3,17]:http://gometry.st...
Yahoo Sat	html:http://josm.openstreet...
osmfr	tms[20]:http://{switch:a,b,c...
skobbler	tms[1,18]:http://tiles/{switc...



Activate

Selected entries:

Menu Name	Imagery URL
Bing-Satelitenb...	bing[22]:http://www.bing.com/maps/
MapBox-Satellit...	tms[17]:http://{switch:a,b,c}.tiles.mapbox.com/v3/openstreetma...
MapQuest offe...	tms:http://oatile-{switch:1,2,3,4}.mqcdn.com/tiles/1.0.0/sat/{zoo...
OpenStreetMa...	tms[18]:http://{switch:a,b,c}.www.toolserver.org/tiles/bw-mapnik...
OpenStreetMa...	tms[19]:https://{switch:a,b,c}.tile.openstreetmap.org/{zoom}/{...



load images

e

tags.

des



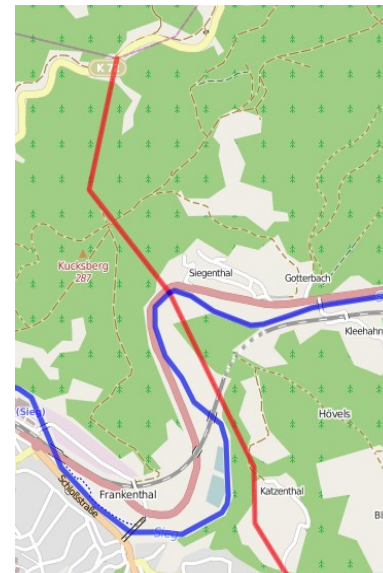
ed by server

```
( way[waterway=river]; >; );  
out meta;
```

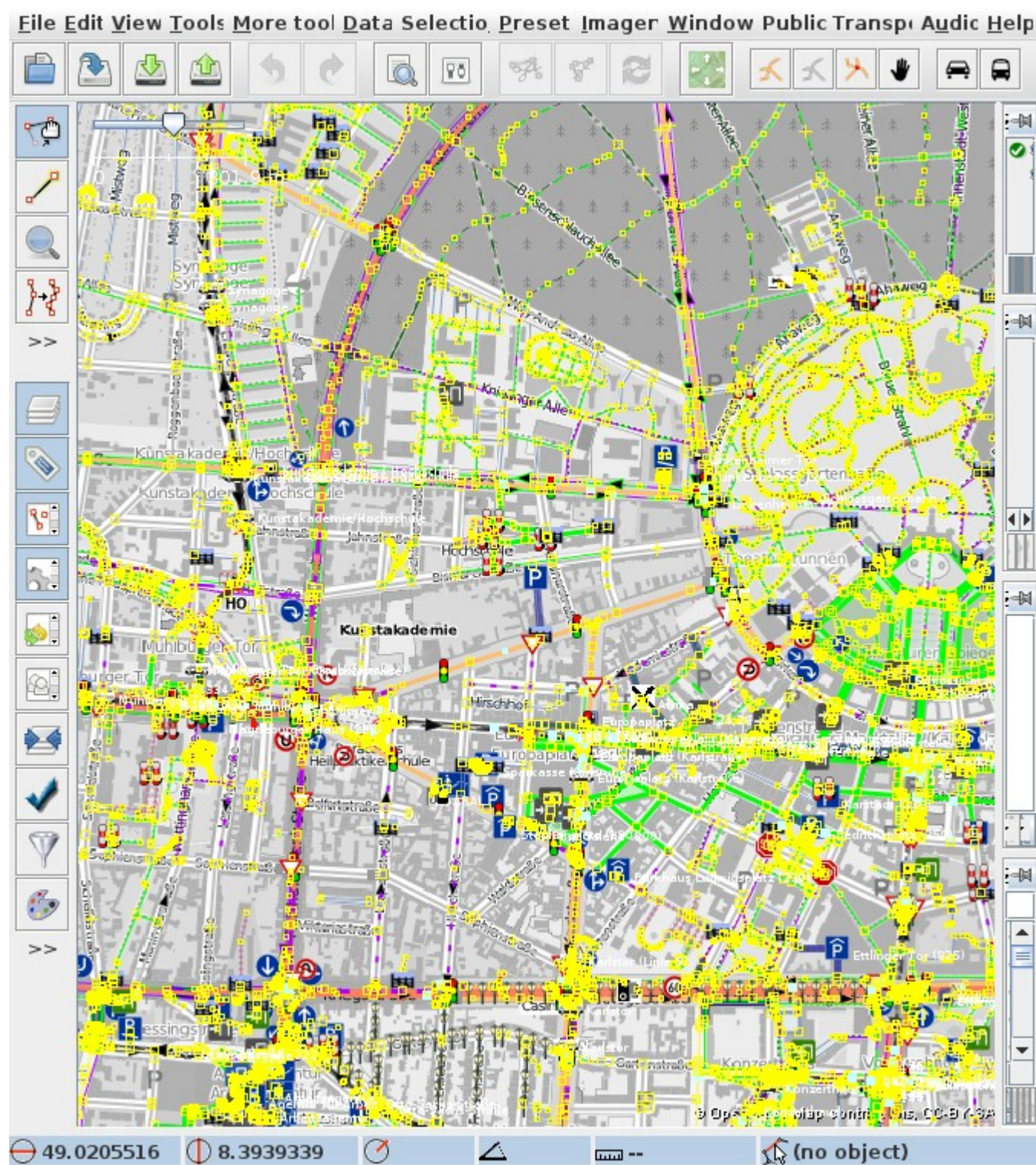
```
( way[waterway=river]; >; );  
( ._; rel(bw); );  
( ._; rel(bn); );  
out meta;
```

```
( way[waterway=river]; >; );  
( ._; rel(bw); );  
( ._; rel(bn); );  
( ._; way(bn); );  
out meta;
```

fixes relation memberships.



**fixes
crossing ways.**



```
( way[highway];>  
  way[railway];>  
  node[public_transport];  
  node[highway];  
  node[railway]; )  
( ._; rel(bw); )  
( ._; rel(bn); )  
( ._; way(bn); )  
out meta;
```

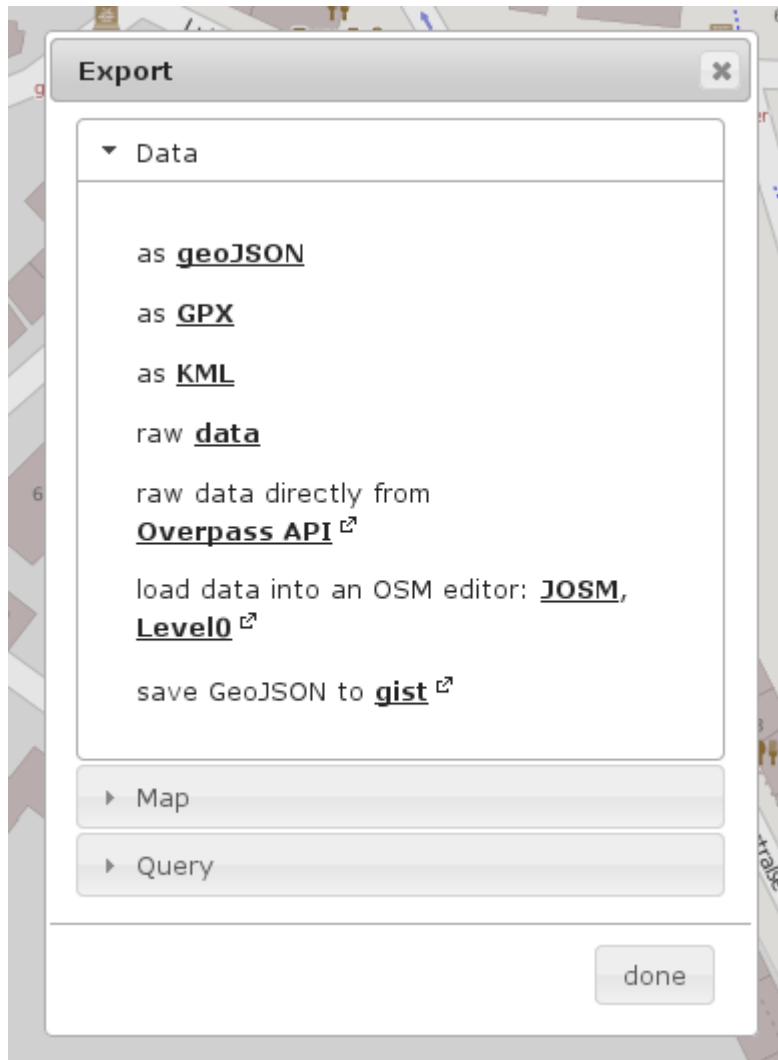
You can
add/remove tags.

You can edit relations
(might be the only
feasible way).

Only move/add nodes
when the background
imagery indicates no
problem.

further example:

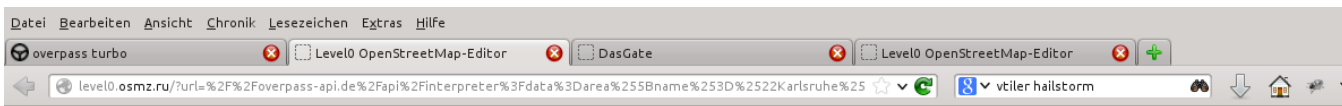
**[http://ksmapper.blogspot.de/2014/02/
workflow-for-fixing-county-borders.html](http://ksmapper.blogspot.de/2014/02/workflow-for-fixing-county-borders.html)**



Do a query on overpass-turbo.eu

```
area[name="Karlsruhe"];  
( way(area)  
  [name="Douglasstraße"];  
  > );  
out meta;
```

Export > data > Level 0



Level0 OpenStreetMap-Editor

Lese URL [http://overpass-api.de/api/interpreter?data=area%5Bname%3D%22Karlsruhe%22%5D%3B%0A\(%20way\(area\)%5Bname%3D%22Douglasstra%C3%9Fe%22%5D%3B%20%3E%3B%20\)%3B%0Aout%20meta%3B%0A](http://overpass-api.de/api/interpreter?data=area%5Bname%3D%22Karlsruhe%22%5D%3B%0A(%20way(area)%5Bname%3D%22Douglasstra%C3%9Fe%22%5D%3B%20%3E%3B%20)%3B%0Aout%20meta%3B%0A)

URL oder Gruppe von IDs wie "n54,w33":

OSM- oder OSC-Datei: Keine Datei ausgewählt.

Du bist drohr.

Changeset-Kommentar:

```
node 1612920690: 49.0116072, 8.3936157
  highway = give_way
  traffic_sign = DE:205

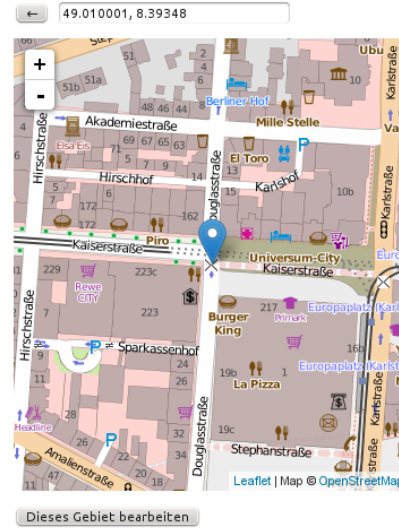
node 1740056792: 49.0099984, 8.3934794
  railway = level_crossing

node 2691777633: 49.0100246, 8.3934783
  railway = level_crossing

way 4059033
  highway = residential
  name = Douglasstraße
  oneway = yes
  nd 21493228
  nd 1784859865
  nd 21493230
  nd 14961098

way 49931897
  cycleway = opposite
  highway = residential
  maxspeed = 30
  name = Douglasstraße
  oneway = yes
  nd 14961098
  nd 1612920690
  nd 21493227

way 162058716
  highway = residential
  maxspeed = 30
  name = Douglasstraße
```



Nützliche Links: [Über diesen Editor](#), [Sprachreferenz](#), [Tag-Referenz](#), [Tag-Statistiken](#), [Wie kartografiert man ein](#)

Level 0

<http://level0.osmz.ru/>

textual editor

You can add/remove tags.

Limited to 500 objects
(this protects from
mechanical edits).

The marker goes
to the node under
the cursor.

Nützliche Links: [Über diesen Editor](#), [Sprachreferenz](#), [Tag-Referenz](#), [Tag-Statistiken](#), [Wie kartografiert man ein](#)

3. Pitfalls

Shared nodes (deletion):

Are you sure that no other object shares a node?

Remedy: add `(._;way(bn););(._;rel(bn););` to query.

Moving nodes:

Do you cross nearby features?

Remedy: background map

Relation memberships:

Do you break relations when splitting/joining/deleting?

Remedy: load all relations

Reminder: to build relations almost always requires splitting ways

Happy mapping!

Thank you for your attention