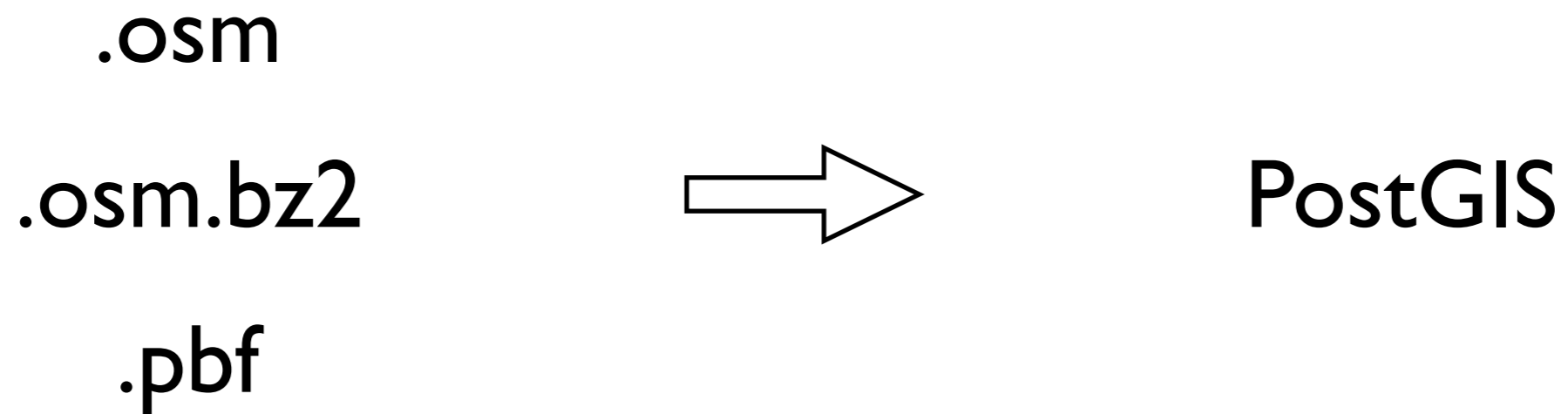


Imposm

OpenStreetMap in PostGIS

Oliver Tonnhofer <tonnhofer@omniscale.de>

Imposm



Ziele

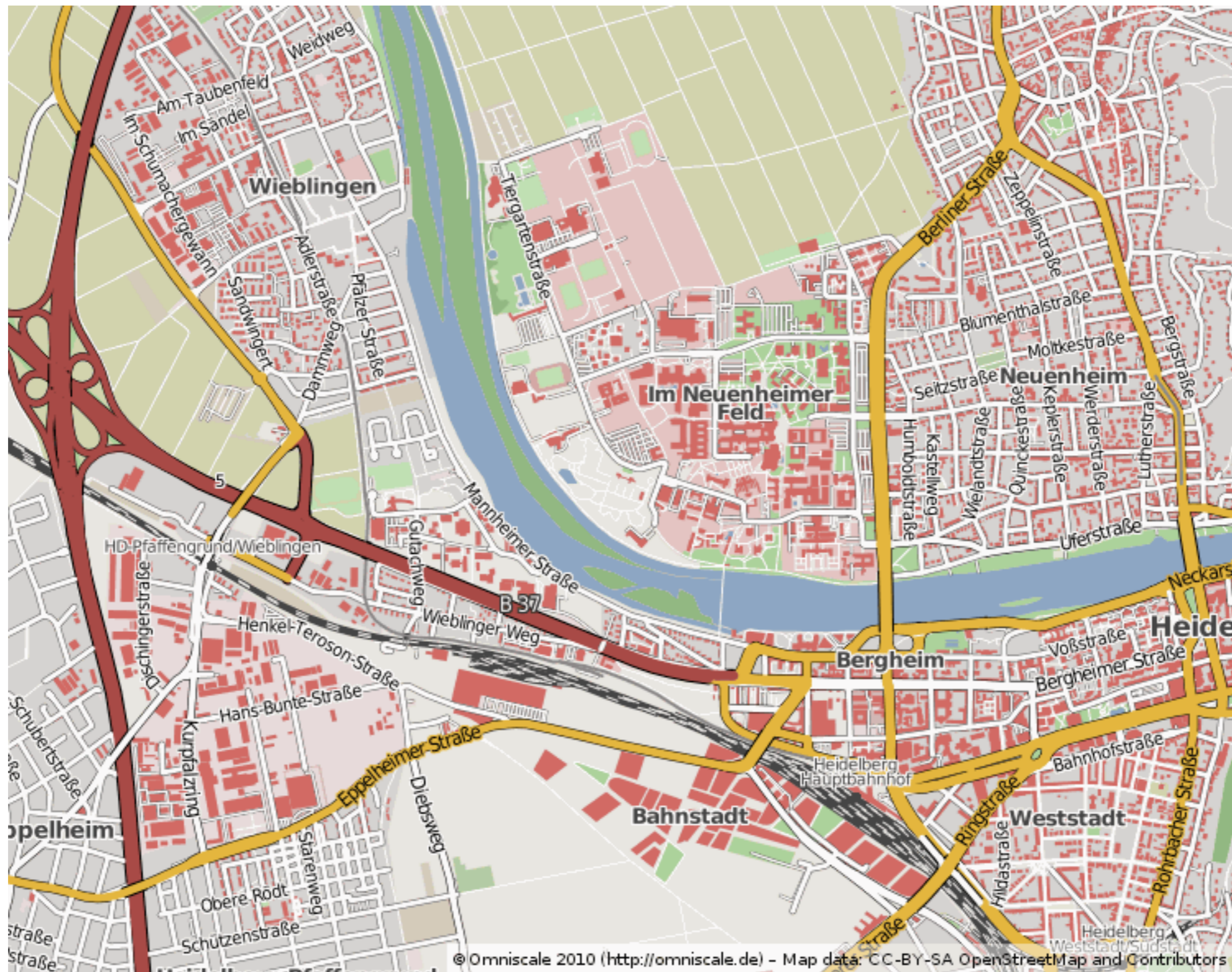
- Anpassbares DB Schema
- Schnelles Rendering
- Niedriger Speicherverbrauch

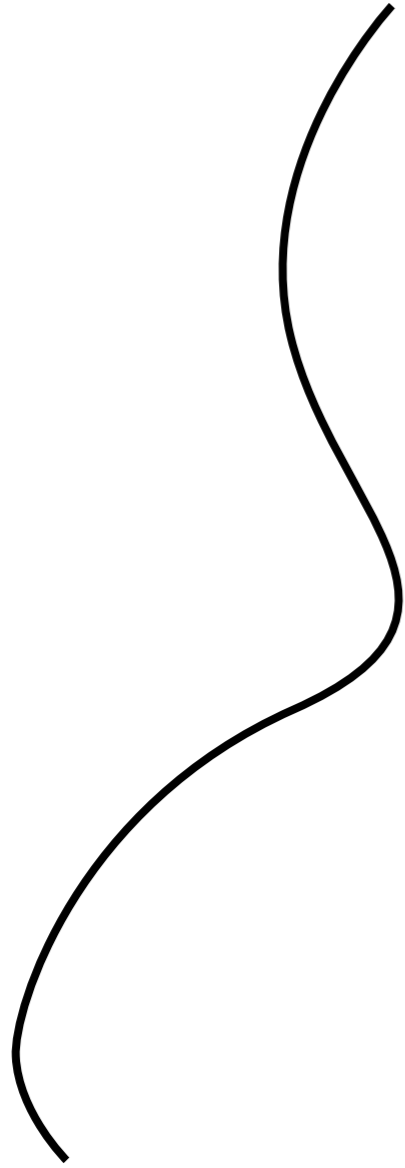
Datenbank Schema

```
Points(  
    name = 'towers',  
    mapping = {  
        'man_made': (  
            'tower',  
            'water_tower',  
        )  
    }  
    fields = (  
        ('height', Integer()),  
    )  
)
```

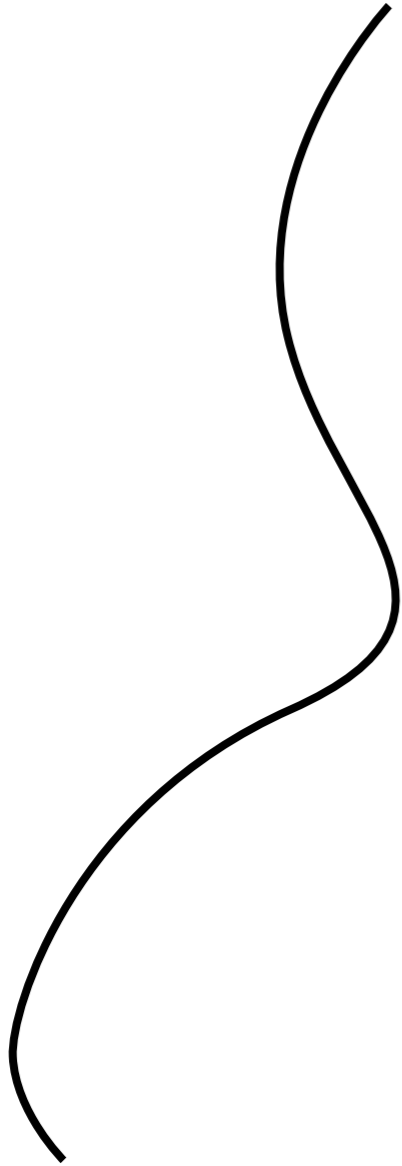
Standardmapping

places, admin, motorways, mainroads,
buildings, minorroads, transport_points,
railways, waterways, waterareas, aeroways,
transport_areas, landusages, amenities

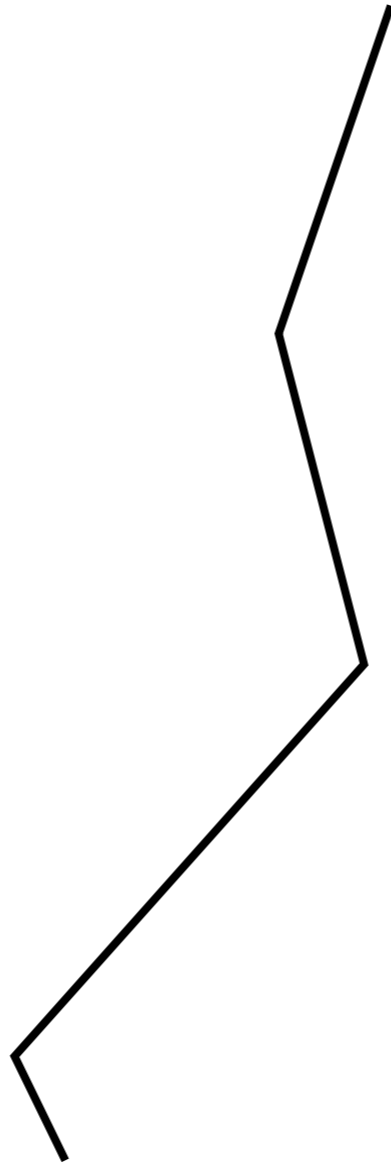




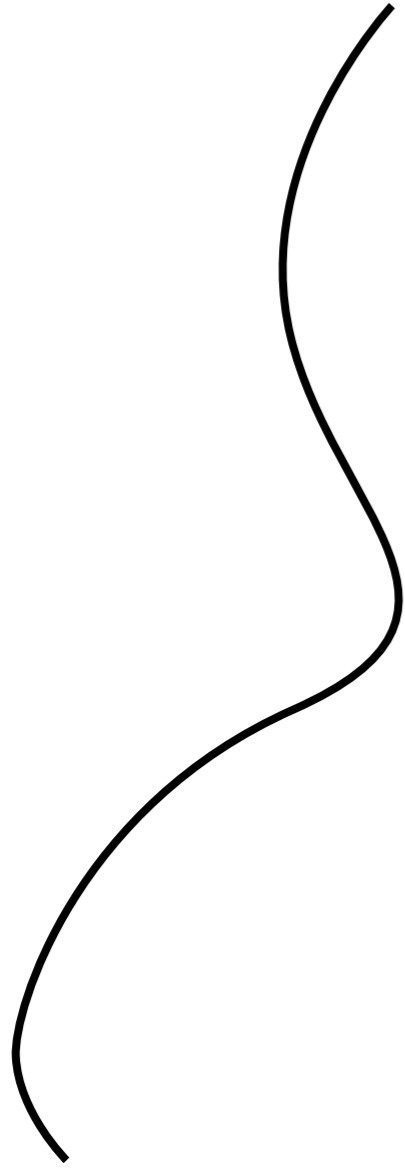
osm_roads



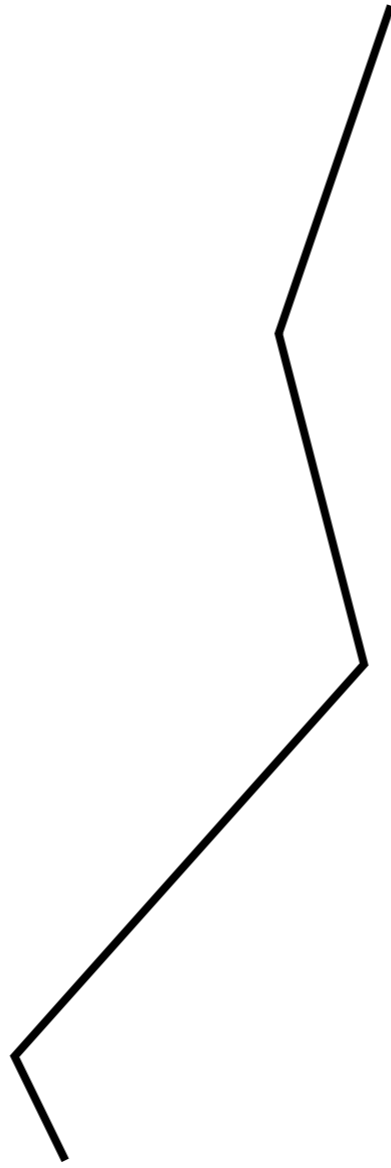
osm_roads



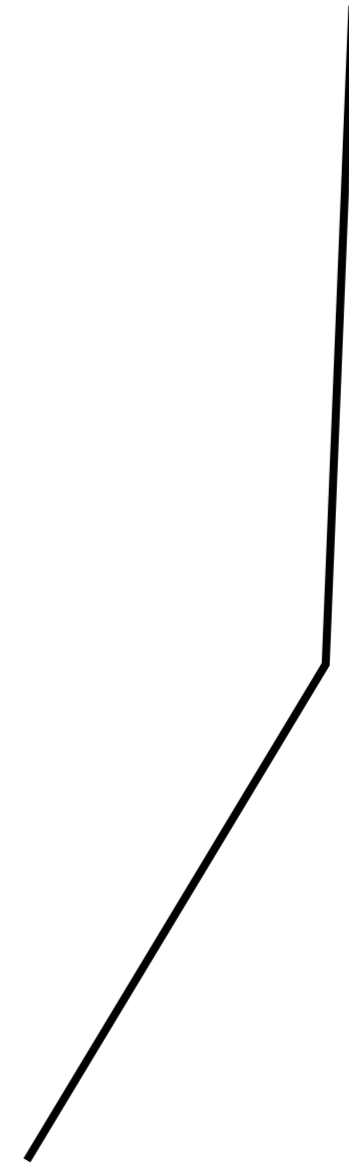
osm_roads_gen1



osm_roads



osm_roads_gen1



osm_roads_gen0



Importdauer

- Deutschland
 - 40 min (8GB)
 - 25 min (12GB + SSD)
- Europa
 - 4 Stunden (12GB + SSD)

Level 5



Level 14

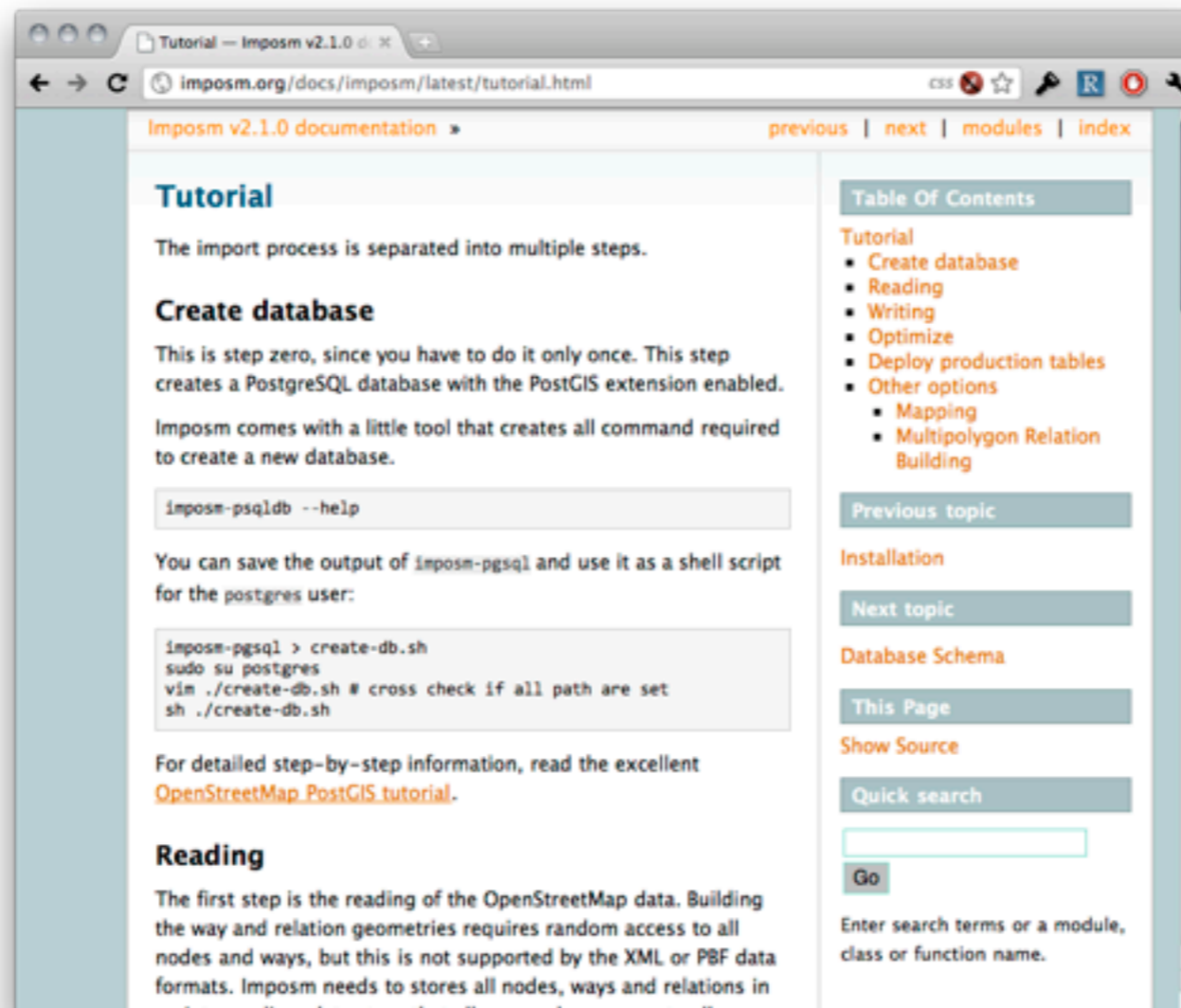


Seed bis Level 14 mit 150 tiles/s
Quad Core (i7@2.6GHz, SSD, 12GB RAM)

Bullet Points

- Unix (Linux, Max OS X, ...)
- OpenSource (Apache Software License)

imposm.org



The screenshot shows a web browser window displaying the 'Tutorial' page for Imposm v2.1.0. The page is titled 'Tutorial' and contains the following content:

Imposm v2.1.0 documentation | [previous](#) | [next](#) | [modules](#) | [index](#)

Tutorial

The import process is separated into multiple steps.

Create database

This is step zero, since you have to do it only once. This step creates a PostgreSQL database with the PostGIS extension enabled.

Imposm comes with a little tool that creates all command required to create a new database.

```
imposm-psqldb --help
```

You can save the output of `imposm-pgsql` and use it as a shell script for the postgres user:

```
imposm-pgsql > create-db.sh
sudo su postgres
vim ./create-db.sh # cross check if all path are set
sh ./create-db.sh
```

For detailed step-by-step information, read the excellent [OpenStreetMap PostGIS tutorial](#).

Reading

The first step is the reading of the OpenStreetMap data. Building the way and relation geometries requires random access to all nodes and ways, but this is not supported by the XML or PBF data formats. Imposm needs to stores all nodes, ways and relations in an intermediate data store that allows random access to all

Table Of Contents

- Tutorial
 - Create database
 - Reading
 - Writing
 - Optimize
 - Deploy production tables
 - Other options
 - Mapping
 - Multipolygon Relation Building

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Installation

Next topic

Database Schema

This Page

Show Source

Quick search

Go

Enter search terms or a module, class or function name.

imposm.parser

- OSM XML/PBF Parser
- Unabhängige Bibliothek (Python)
- <http://pypi.python.org/pypi/imposm.parser>

Fragen?

- <http://imposm.org>
- Oliver Tonnhofer
 - tonnhofer@omniscale.de
 - MapProxy Projektstand
- imposm@googlegroups.com