

OpenStreetMap

What is that and how can I contribute?

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1 What is this?

- Motivation
- History
- Statistics
- Community

2 The data

- Node
- Way
- Relation
- Area

- free¹ project collecting **free accessible** geodata
- open database for geodata
- ODC-ODbL
 - ▶ OpenDataCommons Open Database License
 - ▶ Ersetzt CC BY-SA 2.0 (share alike & attribution)

¹free as in *freedom*

Motivation

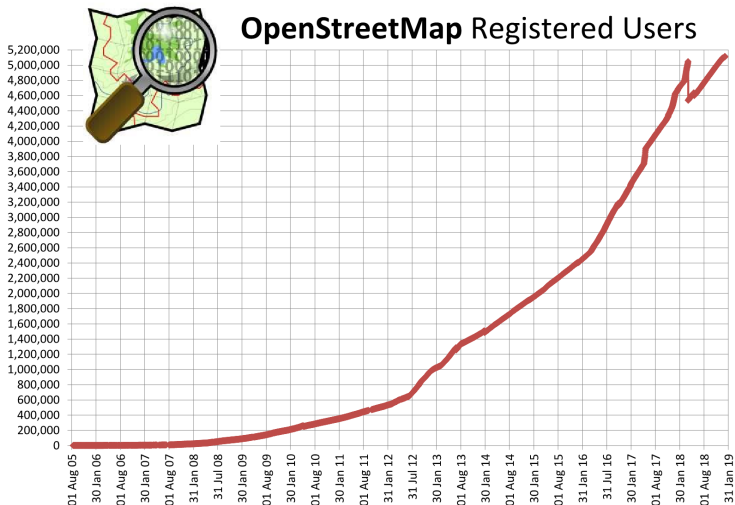
Why has OpenStreetMap been created?

- proprietary maps old and faulty
- focus on cars and traffic
- no access to raw data
 - ▶ error correction not possible
- Google Maps *not directly evil* – but **not free**
- license problems with (nearly) all map service providers

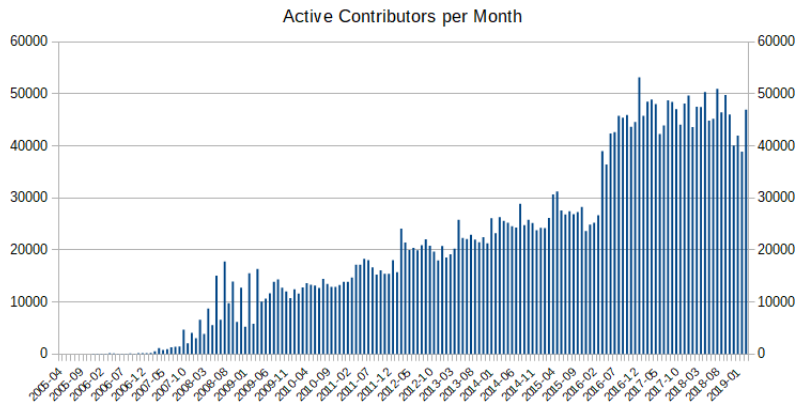
History

- 2004 – OSM founded
- 2006 – release JOSM-Editor
- 2006 – first map rendered with Mapnik
- 2007 – TIGER data import USA started
- 2008 – TIGER data import USA finished
- 2009 – API 0.6 (still latest version)
- 2009 – cooperation with Wikipedia
- 2010 – Bing Imagery allowed usage for OSM
- 2013 – 1 mio. registered users
- 2016 – Maps.me app enabled edits

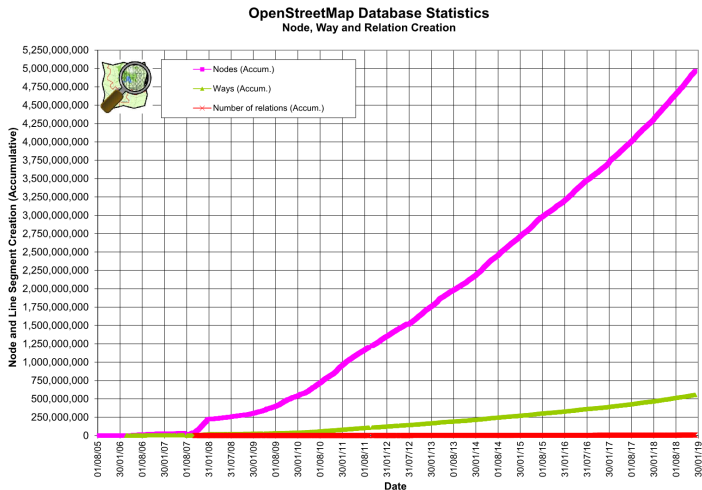
Statistics



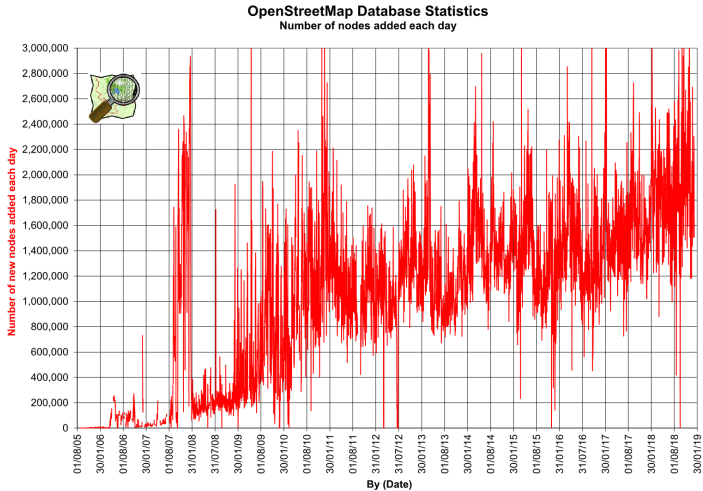
Statistics



Statistics

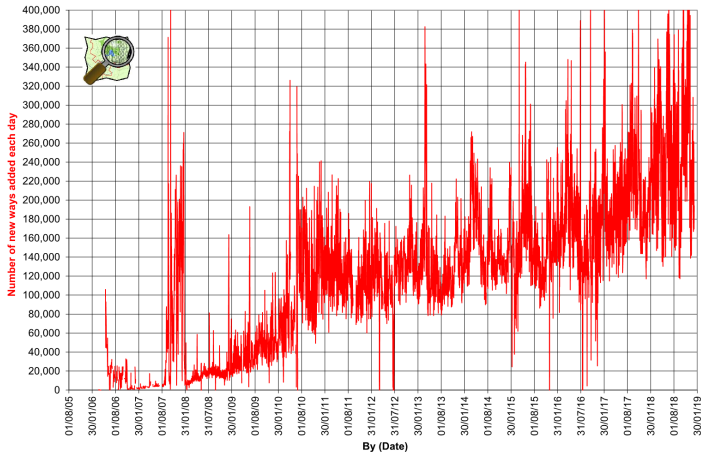


Statistics



Statistics

OpenStreetMap Database Statistics
Number of ways added each day



Community

What is done?

- developing software and tools
- actual mapping
- creating and maintaining documentation
- doing public relations activities

Community

How is it done?

- going outside collecting information
- using imagery services
- meet other mappers
- participating in a mapathon

Node

- single location on map



amenity=telephone
covered=booth



Way

- line on map
- 2-2000 points per way

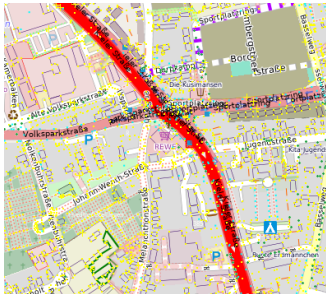


highway=secondary



Relation

- combination of ways (e.g. to a bus route)



```
type=route  
route=bus  
name=MetroBus 4  
ref=4  
from=Wildacker  
to=Brandstwierte
```

Area

- basically a closed way



landuse=forest
leaf_type=broadleaved

