

# Reverse-Geocoding Databases Derived from OpenStreetMap (OSM)

The data files in this folder are derived from OpenStreetMap.

OpenStreetMap data is © OpenStreetMap contributors.

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The following data files are currently provided:

## [osm-20151130-1.0-2.bin](#)

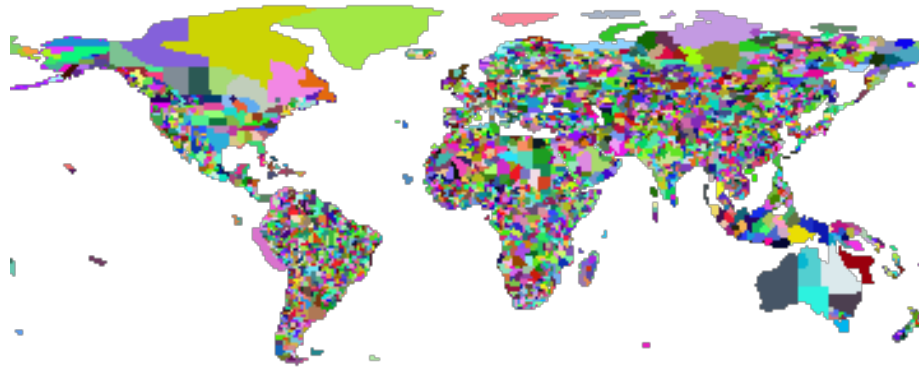


Figure 1: Visualization

Attribute	Value
Map size:	360 x 150
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	825273 (0.787 MB)
Size of map data:	23710 (0.023 MB)
Average bytes per row:	158.1
Row compression factor:	2.3
Metadata entries:	3575
Size of metadata:	786627 (0.750 MB)
Average bytes per meta:	220.0
Total bytes per pixel:	15.282833

## [osm-20151130-0.5-2.bin](#)

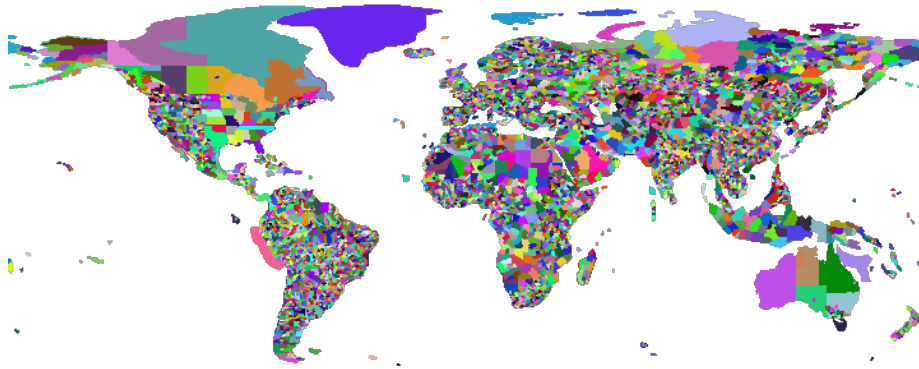


Figure 2: Visualization

Attribute	Value
Map size:	720 x 300
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	1679735 (1.602 MB)
Size of map data:	63672 (0.061 MB)
Average bytes per row:	212.2
Row compression factor:	3.4
Metadata entries:	6719
Size of metadata:	1587951 (1.514 MB)
Average bytes per meta:	236.3
Total bytes per pixel:	7.776551

**osm-20151130-0.2-2.bin**

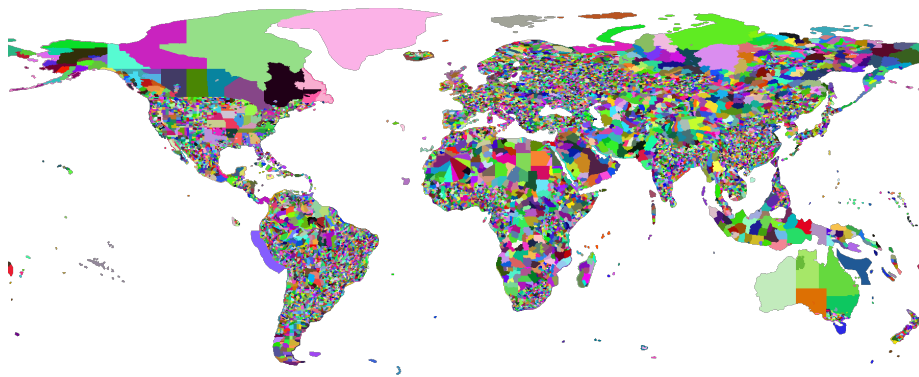


Figure 3: Visualization

Attribute	Value
Map size:	1800 x 750
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	3653595 (3.484 MB)
Size of map data:	225641 (0.215 MB)
Average bytes per row:	300.9
Row compression factor:	6.0
Metadata entries:	13240

## osm-20151130-0.1-2.bin

Visualization 3600x1500

Attribute	Value
Map size:	3600 x 1500
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	6382346 (6.087 MB)
Size of map data:	589784 (0.562 MB)
Average bytes per row:	393.2
Row compression factor:	9.2
Metadata entries:	21644
Size of metadata:	5699950 (5.436 MB)
Average bytes per meta:	263.4
Total bytes per pixel:	1.181916

## osm-20151130-0.05-2.bin

Visualization 7200x3000

Attribute	Value
Map size:	7200 x 3000
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	10249682 (9.775 MB)
Size of map data:	1450648 (1.383 MB)
Average bytes per row:	483.5
Row compression factor:	14.9
Metadata entries:	31124
Size of metadata:	8662502 (8.261 MB)
Average bytes per meta:	278.3
Total bytes per pixel:	0.474522

## osm-20151130-0.02-2.bin

Visualization 10000x7500

Attribute	Value
Map size:	18000 x 7500
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	19409068 (18.510 MB)
Size of map data:	4513295 (4.304 MB)
Average bytes per row:	601.8

Attribute	Value
Row compression factor:	29.9
Metadata entries:	47575
Size of metadata:	14675437 (13.996 MB)
Average bytes per meta:	308.5
Total bytes per pixel:	0.143771

### **osm-20151130-0.01-2.bin**

Attribute	Value
Map size:	36000 x 15000
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	31303949 (29.854 MB)
Size of map data:	10435583 (9.952 MB)
Average bytes per row:	695.7
Row compression factor:	51.7
Metadata entries:	64597
Size of metadata:	20549942 (19.598 MB)
Average bytes per meta:	318.1
Total bytes per pixel:	0.057970

### **osm-20151130-0.005-2.bin**

Attribute	Value
Map size:	72000 x 30000
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	51483241 (49.098 MB)
Size of map data:	23856389 (22.751 MB)
Average bytes per row:	795.2
Row compression factor:	90.5
Metadata entries:	85630
Size of metadata:	27164296 (25.906 MB)
Average bytes per meta:	317.2
Total bytes per pixel:	0.023835

### **osm-20151130-0.002-2.bin**

Attribute	Value
Map size:	180000 x 75000

Attribute	Value
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	111273361 (106.119 MB)
Size of map data:	70830718 (67.549 MB)
Average bytes per row:	944.4
Row compression factor:	190.6
Metadata entries:	126211
Size of metadata:	39637763 (37.802 MB)
Average bytes per meta:	314.1
Total bytes per pixel:	0.008242

This file exceeds the GitHub 100 MB file limit. It will be made available in the [Open Data LMU](#) repository instead.

### osm-20151130-0.001-2.bin

Attribute	Value
Map size:	360000 x 150000
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	212171663 (202.343 MB)
Size of map data:	157478777 (150.183 MB)
Average bytes per row:	1049.9
Row compression factor:	342.9
Metadata entries:	169718
Size of metadata:	53413978 (50.940 MB)
Average bytes per meta:	314.7
Total bytes per pixel:	0.003929

This file exceeds the GitHub 100 MB file limit. It will be made available in the [Open Data LMU](#) repository instead.

### osm-20151130-0.0005-2.bin

Attribute	Value
Map size:	720000 x 300000
Map area:	lon -180.0-180.0 lat -65.0-85.0
Total size:	408922172 (389.979 MB)
Size of map data:	339683647 (323.948 MB)
Average bytes per row:	1132.3
Row compression factor:	635.9

Attribute	Value
Metadata entries:	213381
Size of metadata:	67184965 (64.073 MB)
Average bytes per meta:	314.9
Total bytes per pixel:	0.001893

This file exceeds the GitHub 100 MB file limit. It will be made available in the [Open Data LMU](#) repository instead.

## Columns

All these data files are built from the same source, and the columns included are

1. Name as used on OSM (usually a localized name)
2. International or English name (often a transcribed name)
3. A place type, if available (e.g. city, county, ... but not very complete)
4. A link to Wikipedia, preferably to the localized version
5. [WikiData](#) entry id, if annotated
6. An OpenStreetMap reference, either a way id *w* or a relation id *r*
7. Administrative level as [used by OSM](#), but usage may vary across countries.

## Examples

The following are some example results from the 0.01 resolution file. Each row is one entity reported, and | indicates a tab separator.

In Manhattan:

```
New York County | New York County | county | en:Manhattan | | r2552485 | 6
New York City | New York City | city | en:New York City | | r175905 | 5
New York | New York | | en:New York | Q1384 | r61320 | 4
United States of America | United States of America | en:United States | Q30 | r148838 | 2
```

At the center of Munich:

```
München | Munich | city | de:München | Q1726 | r62428 | 6
Oberbayern | Upper Bavaria | | de:Oberbayern | Q10562 | r2145274 | 5
Bayern | Free State of Bavaria | state | de:Bayern | Q980 | r2145268 | 4
Deutschland | Germany | | de:Deutschland | Q183 | r51477 | 2
```

Yes, there may be errors in the data. They should be fixed in [OpenStreetMap](#)

For example in Western Australia the city of Perth and other boundaries are missing, and Canada could also use some love.