

Run your own Taginfo Instance



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State of the Map Asia 2016

About Taginfo

OpenStreetMap uses tags to add meaning to geographic objects

Taginfo is a system for finding and aggregating information about OSM tags and making it browsable and searchable.

Taginfo shows statistics about

- **which** tags are actually in the database,
- **how** many people use those tags,
- **where** they are used and so on.

Planet vs Region

Comparing planet all tag keys with regional data(India)

This table shows all tag keys that exist in the database or in any of the other sources.

Page 1 of 3608 JSON Displaying 1 to 17 of 61330 items					
Key	* Objects		Nodes		
building	201 635 827	5.14%	868 286	0.77%	
source	174 128 976	4.44%	43 769 999	38.83%	
highway	106 280 999	2.71%	7 378 020	6.54%	
addr:housenumber	63 974 874	1.63%	37 198 262	33.00%	
addr:street	57 675 201	1.47%	31 751 782	28.17%	
name	52 862 304	1.35%	12 920 508	11.46%	
addr:city	47 497 510	1.21%	28 173 609	24.99%	
addr:postcode	45 418 944	1.16%	27 149 861	24.08%	
natural	24 312 736	0.62%	8 275 759	7.34%	
source:date	22 380 996	0.57%	9 657 644	8.57%	
addr:country	21 564 163	0.55%	10 634 136	9.43%	
landuse	17 145 926	0.44%	156 037	0.14%	
surface	14 518 002	0.37%	43 323	0.04%	
created_by	13 704 330	0.35%	12 386 351	10.99%	
tiger:cfcc	13 260 831	0.34%	34	0.00%	
tiger:county	13 056 167	0.33%	214	0.00%	
waterway	12 997 667	0.33%	159 089	0.14%	

This table shows all tag keys that exist in the database or in any of the other sources.

Page 1 of 200 JSON Displaying 1 to 18 of 3584 items					
Key	* Objects		Nodes		
building	4 528 287	7.75%	5 342	0.32%	
highway	1 608 818	2.75%	15 734	0.94%	
power	1 173 012	2.01%	1 146 166	68.80%	
source	373 080	0.64%	272 454	16.35%	
name	317 547	0.54%	156 821	9.41%	
surface	237 197	0.41%	46	0.00%	
created_by	178 359	0.31%	170 119	10.21%	
landuse	106 777	0.18%	772	0.05%	
natural	89 645	0.15%	14 246	0.86%	
ref	85 171	0.15%	2 864	0.17%	
oneway	82 638	0.14%	3	0.00%	
amenity	80 263	0.14%	55 987	3.36%	
bridge	63 183	0.11%	16	0.00%	
place	63 039	0.11%	59 212	3.55%	
layer	61 695	0.11%	48	0.00%	
waterway	59 649	0.10%	400	0.02%	
lanes	51 351	0.09%	0	0.00%	
railway	49 978	0.09%	18 054	1.08%	

Getting Taginfo

- Get the source - <https://github.com/joto/taginfo>
- Edit the configuration file – taginfo-config.json

Ex: Existing config of running instances can be looked up - <http://taginfo.openstreetmap.org/taginfo/config>

```
{
  "instance": {
    "url": "http://taginfo.openstreetmap.in",
    "name": "OpenStreetMap India Taginfo",
    "description": "This is the <b>India</b> taginfo instance.",
  }
}
```

Requirements

Runs mostly on GNU/Linux with following prerequisites:

- Ruby (must be at least 1.9.1)
- Sinatra web framework
- Rack Contrib Gem (for Rack::JSONP)
- JSON gem (install with gem, Debian/Ubuntu packages are too old and buggy)
- curl binary
- sqlite3 binary and ruby libs
- Mongrel or Apache2 mod_passenger
- Optional: Parallel bzip (pzbip2)

<https://github.com/joto/taginfo/blob/master/README.md>

Compiling

- Install libosmium:
<https://github.com/osmcode/libosmium>
- Get into the tagstats directory and compile the binaries:

```
cd tagstats
```

```
make
```

Config for geo distribution map

- Important for regional extracts based Taginfo.
- The geographical distribution map shows where in the world each key is used.

Ex: India

```
"geodistribution": {  
  "left": 68.1113787,  
  "bottom": 6.5546079,  
  "right": 97.395561,  
  "top": 35.6745457,  
  "width": 260,  
  "height": 180,  
  "scale_image": 2,  
  "scale_compare_image": 1,  
  "background_image": "/img/mapbg/india.png",  
  "image_attribution": ""  
},
```

World

```
"geodistribution": {  
  "left": -180,  
  "bottom": -90,  
  "right": 180,  
  "top": 90,  
  "width": 360,  
  "height": 180,  
  "scale_image": 2,  
  "scale_compare_image": 1,  
  "background_image": "/img/mapbg/world.png",  
  "image_attribution": ""  
},
```


Import data

- Set up the data sources
- Set up the build directory – BUILD_DIR
- Create the databases – takes time depending on sources
- Move the data to the right place

http://wiki.openstreetmap.org/wiki/Taginfo/Installation#Import_data

Running Webserver

- Taginfo webserver from command-line:

```
cd web
```

```
./taginfo.rb PORT
```

(default port 4567)

<http://localhost:4567>

- Running taginfo webserver under Apache/Passenger

Install Apache and Passenger module to run Taginfo under Passenger

<http://taginfo.openstreetmap.ph>

Thanks

- Jochen Topf
- Imre Samu
- OpenStreetMap India and many more..

More info

- <https://github.com/joto/taginfo/blob/master/README.md>
- <http://wiki.openstreetmap.org/wiki/Taginfo/Installation>

Mailing list

- Taginfo-dev <https://lists.openstreetmap.org/listinfo/taginfo-dev>