Taginfo

Das neue Tag-Informationssystem
für OpenStreetMap

Jochen Topf

OSM - Objekte

Nodes	Ways	Relations

1 Mrd   90 Mio   1 Mio

93%
ohne Tags

Tags

Key = Value

highway = residential
amenity = post_box

25.000 verschiedene Keys
56 Mio. verschiedene Tags
500 Mio. Key-Kombinationen

Fragen

Welches Tag soll ich für x benutzen?

Was bedeutet Tag x?

Welche Tags soll ich auf meiner Karte darstellen?

Wie sieht Tag x auf der Karte aus?

Wird Tag x oder Tag y häufiger benutzt?

Welche wichtigen Tags sind nicht dokumentiert?

|					
amenity	arts_centre		an arts centre		
amenity	atm		an ATM or cash point		
amenity	baby_hatch		a place where you can drop a baby anonymously for adoption		
amenity	bank		a bank (for a bank that also has an ATM, use amenity=bank and atm=yes)		
amenity	bbq		A public grill for cooking meat or vegetables, most typically to eat outdoors. You may want to include a *fuel=wood/gas/electric* key		
amenity	bench		a bench to sit down and relax a bit		
amenity	biergarten		Beer garden in Wikipedia		
amenity	bicycle_parking		Parking for bicycles		
amenity	bicycle_rental		Rent a bicycle		
amenity	bureau_de_change		Bureau de change, Currency exchange, Wechsel, Cambio - a place to change foreign bank notes and travellers cheques		
amenity	bus_station		Bus Station (this is a big station, a bus stop is highway=bus_stop)		
amenity	brothel		a brothel		
amenity	cafe		a cafe		
amenity	car_rental		Rent a car		
amenity	car_sharing		Share a car		
amenity	cinema		a cinema		
amenity	college		a College campus or buildings		
amenity	courthouse		a place where justice is dispensed		
amenity	crematorium				
amenity	dentist		A dentist practice / surgery.		
amenity	doctors		A doctors practice / surgery.		
amenity	drinking_water		A source of drinking water		
amenity	embassy		An embassy		
amenity	emergency_phone		A telephone dedicated to emergency calls		
amenity	fast_food		Fast Food Restaurant (see also amenity=restaurant). The kind of food served can be tagged with cuisine=*		
amenity	ferry_terminal		Ferry terminal/stop. A place where people/cars/etc. can board and leave a ferry.		
amenity	fire_station		A Fire station		
amenity	food_court		An area with several different restaurant food counters and a shared eating area. Commonly found in malls, airports, etc.		
amenity	fountain		A fountain for cultural / decorational / recreational purposes.		
amenity	fuel		Petrol station; gas station; marine fuel; ... Streets to petrol stations are often tagged highway=service		
amenity	grave_yard		A (smaller) place of burial, often you'll find a church nearby. Large places should be landuse=cemetery instead.		
amenity	grit_bin		A container that hold grit or a mixture from salt and grit.		
amenity	hospital		Often used in conjunction with emergency=* to note whether or not the hospital has emergency facilities (A&E (brit.) or ER (am.))		
amenity	hunting_stand		A hunting stand		

Warum nicht Wiki?

Nicht mal 700 Keys dokumentiert! ~3%

Undokumentierte Keys,
die millionenfach vorkommen!

Dokumentation oft veraltet und unzureichend.

Tag Central

Renderer

Editor

Dokumentation

Taginfo

Renderer

Editor

Dokumentation
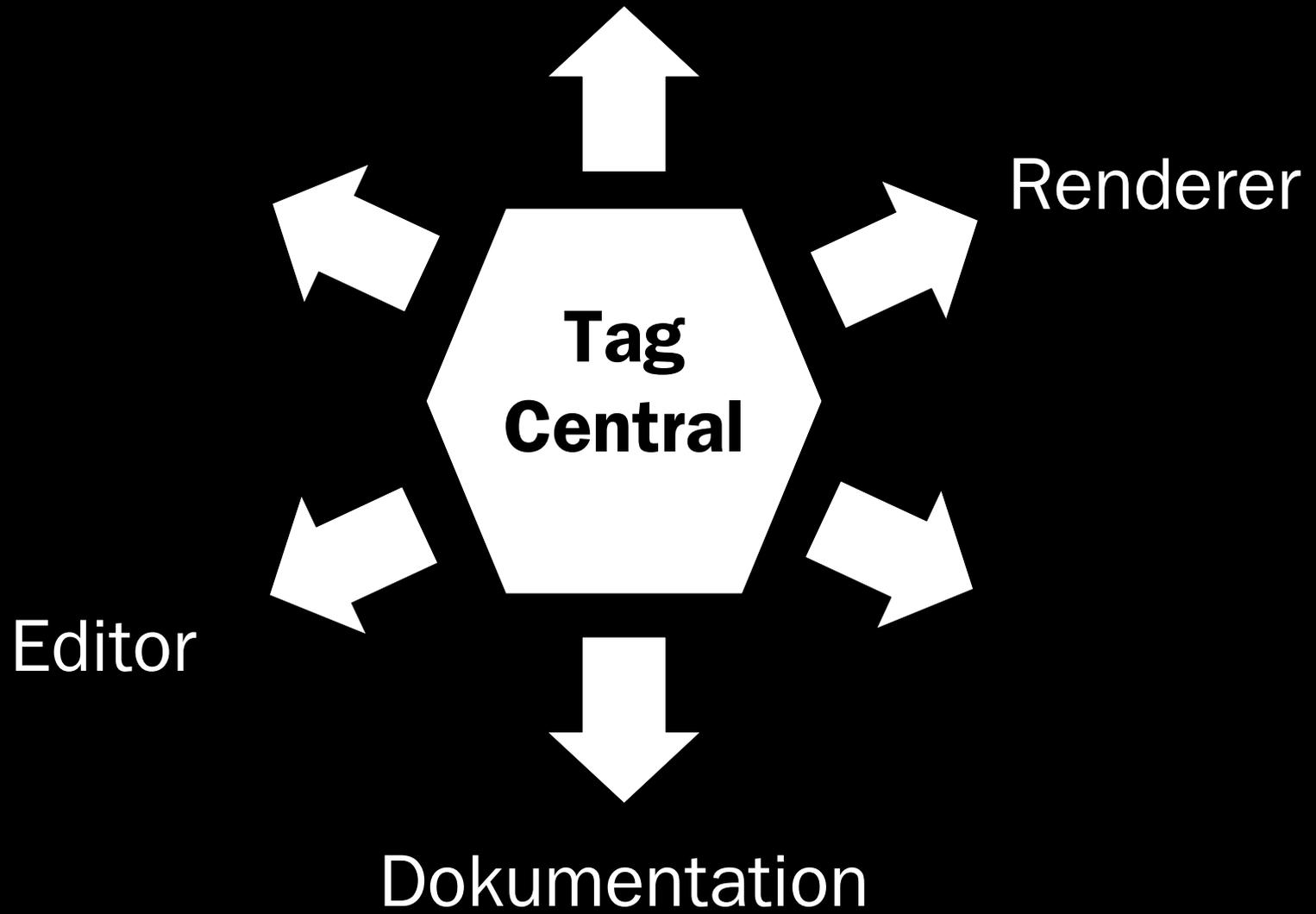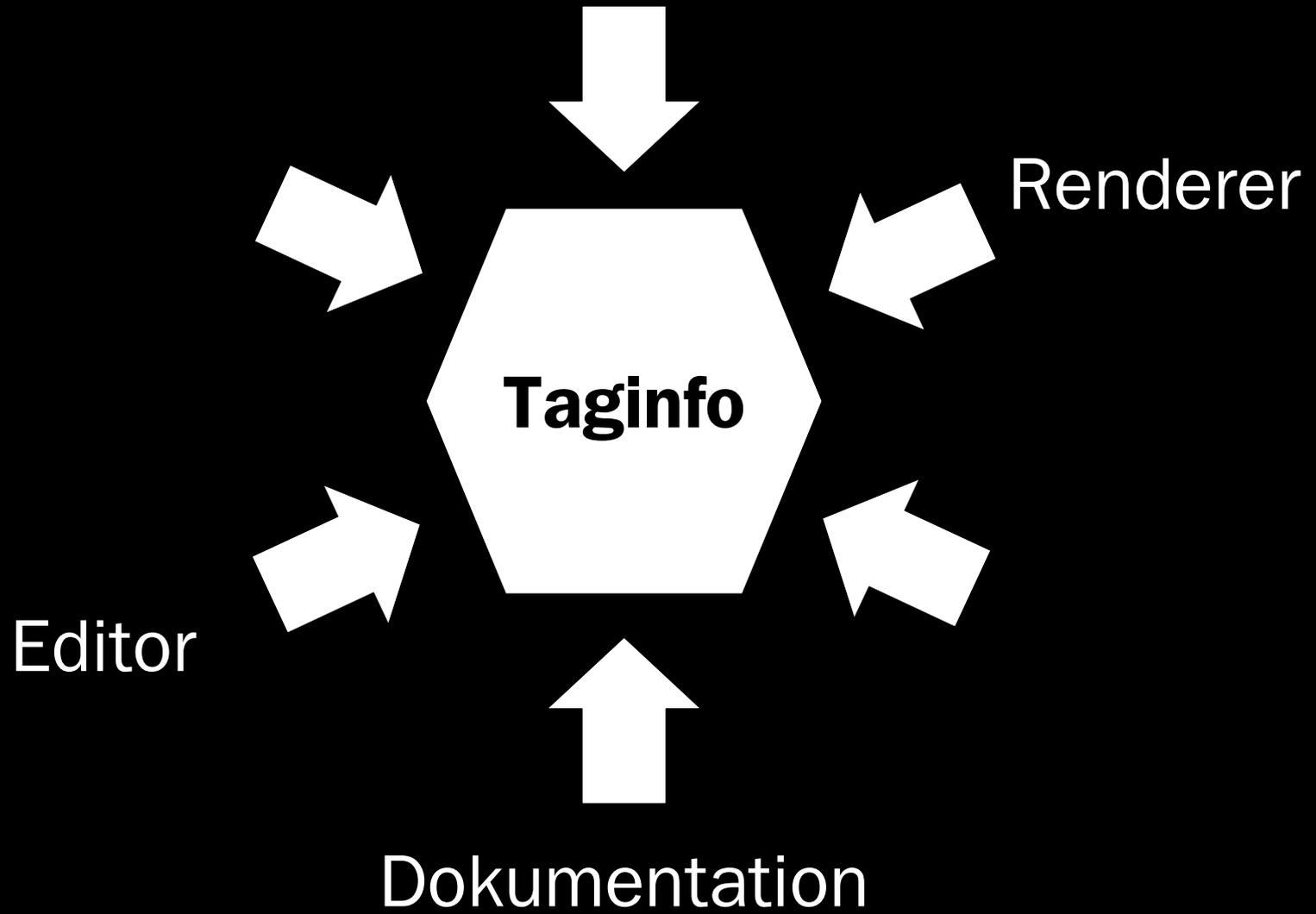
Ziele

Alle Daten (planet)

Möglichst viele weitere Quellen

Mindestens täglich aktualisiert

Auf üblicher Hardware lauffähig

Schnelles und übersichtliches UI

Vorgänger

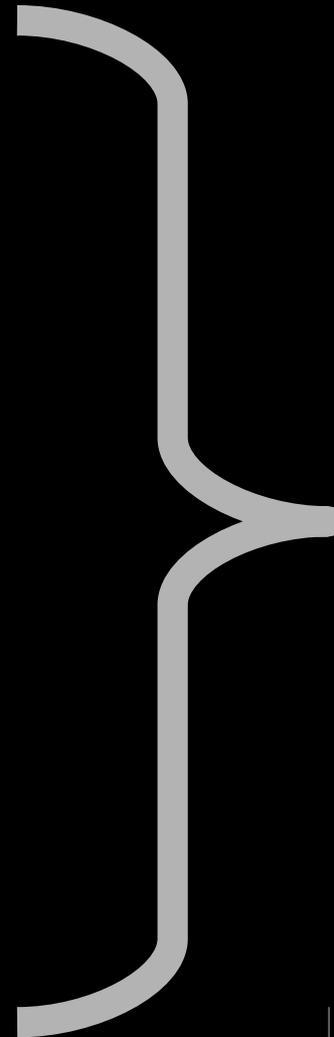Tagwatch

Tagstat

OSMdoc

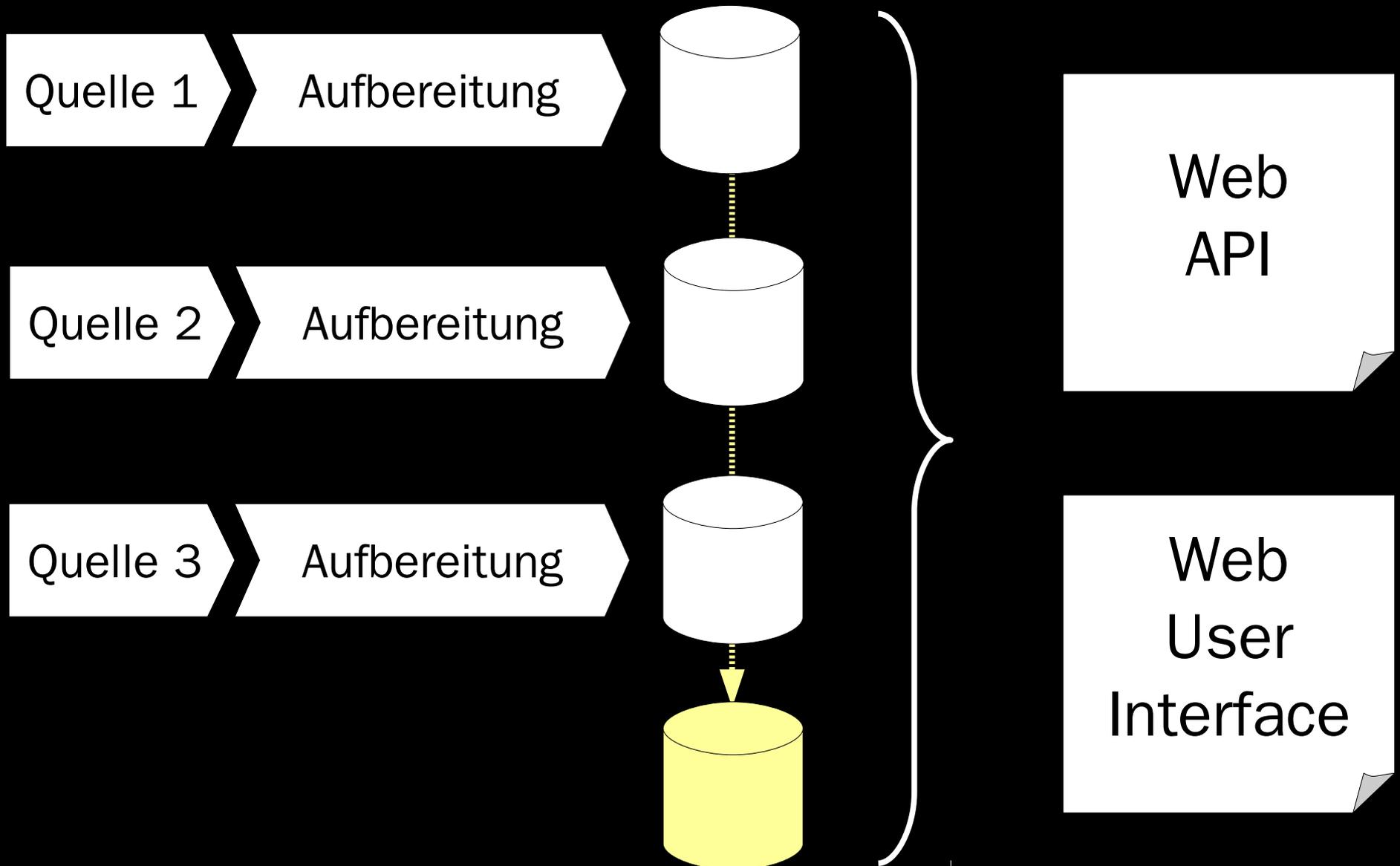# Datenquellen

 Datenbank

 Wiki

 JOSM

 Potlatch 2

 Merkaartor

 OSM

Architektur

Quelle 1 → Aufbereitung

Quelle 2 → Aufbereitung

Quelle 3 → Aufbereitung

Web API

Web User Interface

Technologien

Statistik: C++ (Osmium)

Datensammlung/-aufbereitung: Ruby, sh, SQL

Datenhaltung: Sqlite

Webinterface: Sinatra (Ruby)

Webseiten: jQuery, flexigrid, Protovis (SVG)

Server

Einer der STRATO-Server (humboldt)

Nächtliche Aktualisierung

ca. 4h, davon 3h für Statistik

braucht ca. 3,5 GB RAM

Datenbanken: ca. 9GB

Tagcloud

Keys

Key	Total		Nodes		Ways		Relation		U
source	78 391 755	6.97%	35 736 217	51.95%	42 277 234	47.82%	378 304	40.15%	
highway	39 038 195	3.47%	1 846 264	2.68%	37 188 328	42.07%	3 603	0.38%	
created_by	33 571 501	2.98%	29 268 042	42.55%	4 264 833	4.82%	38 626	4.10%	
building	32 817 241	2.92%	245 213	0.36%	32 539 948	36.81%	32 080	3.40%	
name	24 969 312	2.22%	5 370 569	7.81%	19 157 176	21.67%	441 567	46.86%	
tiger:source	13 745 938	1.22%	2	0.00%	13 745 934	15.55%	2	0.00%	
tiger:tlid	13 743 516	1.22%	946	0.00%	13 742 568	15.54%	2	0.00%	
tiger:cfcc	13 679 342	1.22%	37	0.00%	13 679 303	15.47%	2	0.00%	
tiger:county	13 387 070	1.19%	935	0.00%	13 386 133	15.14%	2	0.00%	
tiger:reviewed	13 383 958	1.19%	46	0.00%	13 381 870	15.14%	2 042	0.22%	
tiger:separated	11 394 618	1.01%	0	0.00%	11 394 616	12.89%	2	0.00%	
tiger:upload_uuid	11 272 588	1.00%	934	0.00%	11 271 652	12.75%	2	0.00%	
addr:housenumber	10 003 798	0.89%	7 938 280	11.54%	2 058 639	2.33%	6 879	0.73%	
addr:street	9 182 819	0.82%	7 170 974	10.42%	2 003 415	2.27%	8 430	0.89%	
attribution	8 732 989	0.78%	5 234 128	7.61%	3 472 111	3.93%	26 750	2.84%	

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Keys

Key	✳ Total		⊙ Nodes		⬡ Ways		⬚ Relation		U
source	78 391 755	6.97% ▪	35 736 217	51.95% ▬▬	42 277 234	47.82% ▬▬	378 304	40.15% ▬▬	
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created_by	33 571 501	2.98% ▮	29 268 042	42.55% ▬▬	4 264 833	4.82% ▮	38 626	4.10% ▮	
building	32 817 241	2.92% ▮	245 213	0.36%	32 539 948	36.81% ▬▬	32 080	3.40% ▮	
name	24 969 312	2.22% ▮	5 370 569	7.81% ▪	19 157 176	21.67% ▬	441 567	46.86% ▬▬	
tiger:source	13 745 938	1.22% ▮	2	0.00%	13 745 934	15.55% ▬	2	0.00%	
tiger:tlid	13 743 516	1.22% ▮	946	0.00%	13 742 568	15.54% ▬	2	0.00%	
tiger:cfcc	13 679 342	1.22% ▮	37	0.00%	13 679 303	15.47% ▬	2	0.00%	
tiger:county	13 387 070	1.19% ▮	935	0.00%	13 386 133	15.14% ▬	2	0.00%	
tiger:reviewed	13 383 958	1.19% ▮	46	0.00%	13 381 870	15.14% ▬	2 042	0.22%	
tiger:separated	11 394 618	1.01% ▮	0	0.00%	11 394 616	12.89% ▬	2	0.00%	
tiger:upload_uuid	11 272 588	1.00% ▮	934	0.00%	11 271 652	12.75% ▬	2	0.00%	
addr:housenumber	10 003 798	0.89% ▮	7 938 280	11.54% ▪	2 058 639	2.33% ▮	6 879	0.73% ▮	
addr:street	9 182 819	0.82% ▮	7 170 974	10.42% ▪	2 003 415	2.27% ▮	8 430	0.89% ▮	
attribution	8 732 989	0.78% ▮	5 234 128	7.61% ▪	3 472 111	3.93% ▮	26 750	2.84% ▮	

🔍 15 ▾ ⏮ ◀ Seite 1 von 1655 ▶ ⏭ ↻ Eintrag 1 bis 15 von 24819

Keys

Key	Total		Nodes		Ways		Relation		U
name	24 969 312	2.22%	5 370 569	7.81%	19 157 176	21.67%	441 567	46.86%	
tiger:name_base	7 499 746	0.67%	12	0.00%	7 499 732	8.48%	2	0.00%	
tiger:name_type	6 446 113	0.57%	1	0.00%	6 446 112	7.29%	0	0.00%	
KSJ2:filename	3 313 963	0.29%	3 018 957	4.39%	294 216	0.33%	790	0.08%	
tiger:name_direction_prefix	1 086 903	0.10%	0	0.00%	1 086 903	1.23%	0	0.00%	
tiger:name_base_1	929 968	0.08%	0	0.00%	929 968	1.05%	0	0.00%	
name_1	859 988	0.08%	814	0.00%	859 159	0.97%	15	0.00%	
kms:municipality_name	827 571	0.07%	827 122	1.20%	449	0.00%	0	0.00%	
kms:county_name	827 525	0.07%	827 077	1.20%	448	0.00%	0	0.00%	
kms:street_name	827 406	0.07%	826 985	1.20%	421	0.00%	0	0.00%	
kms:zip_name	827 401	0.07%	826 953	1.20%	448	0.00%	0	0.00%	
kms:parish_name	772 883	0.07%	772 433	1.12%	450	0.00%	0	0.00%	
geobase:datasetName	689 642	0.06%	0	0.00%	689 642	0.78%	0	0.00%	
name:en	499 725	0.04%	312 388	0.45%	182 661	0.21%	4 676	0.50%	
tiger:name_direction_suffix	402 324	0.04%	1	0.00%	402 323	0.46%	0	0.00%	

Suche name   Key

15   Seite 1   von 147   Eintrag 1 bis 15 von 2197

Daten vom: 2011-04-02 22:00 UTC Datenquellen Download Über Taginfo Wiki

highway

The highway tag is the primary tag used for any kind of street or way.

XAPI JOSM

Filter: No filter ▾

	Number of objects		Values
✳	39 038 195	3.47%	1 402
⊙	1 846 264	2.68%	548
⬌	37 188 328	42.07%	970
▦	3 603	0.38%	37

| Values | Kombinationen | Karte | Wiki | JOSM |

Values used with this key

Count			Value
18 896 008	48.40%	▬	residential
4 333 762	11.10%	▪	service
2 755 165	7.06%	▪	unclassified
2 732 407	7.00%	▪	track
1 694 997	4.34%	▮	footway
1 597 952	4.09%	▮	tertiary
1 149 714	2.95%	▮	secondary
851 001	2.18%	▮	path
717 377	1.84%	▮	bus_stop
698 729	1.79%	▮	primary
446 569	1.14%	▮	road
401 395	1.03%	▮	cycleway
388 212	0.99%	▮	turning_circle
308 348	0.79%	▮	motorway_link
297 039	0.76%	▮	motorway

Legend (vertical bar): (other), path, secondary, tertiary, footway, track, unclassified, service, residential

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Values	Kombinationen	Karte	Wiki	JOSM

Values used with this key

	Count		Value
(other)	18 896 008	48.40%	residential
path secondary	4 333 762	11.10%	service
tertiary	2 755 165	7.06%	unclassified
footway	2 732 407	7.00%	track
track	1 694 997	4.34%	footway
unclassified	1 597 952	4.09%	tertiary
	1 149 714	2.95%	secondary
service	851 001	2.18%	path
	717 377	1.84%	bus_stop
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XAPI | JOSM

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| Values | Kombinationen | Karte | Wiki | JOSM |

Values used with this key

(other)
path
secondary
tertiary
footway
track
unclassified
service
residential

Count			Value
18 896 008	48.40%		residential
4 333 762	11.10%		service
2 755 165	7.06%		unclassified
2 732 407	7.00%		track
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1 597 952	4.09%		tertiary
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Deutsch

Datenquellen Download Über Taginfo Wiki

highway

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XAPI JOSM

Filter: No filter

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⬚	3 603	0.38%	37

Values	Kombinationen	Karte	Wiki	JOSM

Values used with this key

	Count		Value
(other)	18 896 008	48.40%	residential
path	4 333 762	11.10%	service
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tertiary	2 732 407	7.00%	track
footway	1 694 997	4.34%	footway
track	1 597 952	4.09%	tertiary
unclassified	1 149 714	2.95%	secondary
service	851 001	2.18%	path
	717 377	1.84%	bus_stop
	698 729	1.79%	primary
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residential	388 212	0.99%	turning_circle
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highway

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Filter: No filter

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Values	Kombinationen	Karte	Wiki	JOSM

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297 039	0.76%	▮	motorway

Legend: (other), path, secondary, tertiary, footway, track, unclassified, service, residential

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highway

The highway tag is the primary tag used for any kind of street or way.

XAPI JOSM

Filter: Nodes only ▾

	Number of objects		Values
✳	39 038 195	3.47%	1 402
⊙	1 846 264	2.68%	548
	37	2.07%	970
		0.38%	37

Values	Kombinationen	Karte

Values used with this key
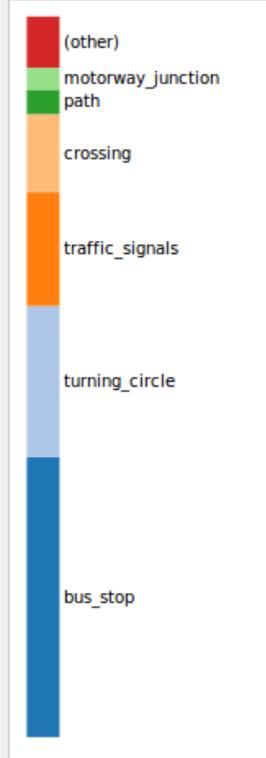
Count			Value
717 028	38.84%	▬	bus_stop
387 819	21.01%	▬	turning_circle
291 280	15.78%	▬	traffic_signals
200 277	10.85%	▪	crossing

(other)	717 028	38.84%		
motorway_junction	387 819	21.01%		
path	291 280	15.78%		traffic_signals
crossing	200 277	10.85%	▪	crossing
	62 545	3.39%	‖	path
traffic_signals	56 148	3.04%	‖	motorway_junction
	32 577	1.76%	‖	mini_roundabout
turning_circle	25 282	1.37%	‖	stop
	13 207	0.72%	‖	street_lamp
	9 144	0.50%		emergency_access_point
	7 148	0.39%		speed_camera
	6 835	0.37%		ford
bus_stop	5 510	0.30%		milestone
	2 544	0.14%		stile
	2 361	0.13%		services

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highway

The highway tag is the primary tag used for any kind of street or way.

XAPI JOSM

Filter: Nodes only ▾

	Number of objects		Values
✳	39 038 195	3.47%	1 402
⊙	1 846 264	2.68%	548
⬡	37 188 328	42.07%	970
⬗	3 603	0.38%	37

Values | **Kombinationen** | Karte | Wiki | JOSM

Other keys used together with this key

Count →			Other key	→ Count		
674 884	36.55%	▇	name	674 884	12.57%	▇
370 625	20.07%	▇	source	370 625	1.04%	▏
184 978	10.02%	▪	naptan:AtcoCode	184 978	82.78%	▇▇▇▇
184 971	10.02%	▪	naptan:CommonName	184 971	83.71%	▇▇▇▇
182 952	9.91%	▪	naptan:Bearing	182 952	83.82%	▇▇▇▇
177 926	9.64%	▪	naptan:Street	177 926	83.23%	▇▇▇▇
176 219	9.54%	▪	naptan:verified	176 219	83.21%	▇▇▇▇
155 181	8.41%	▪	naptan:Indicator	155 181	82.39%	▇▇▇▇
134 992	7.31%	▪	naptan:NaptanCode	134 992	80.91%	▇▇▇▇
119 955	6.50%	▪	crossing	119 955	94.12%	▇▇▇▇▇
118 853	6.44%	▪	naptan:Landmark	118 853	82.40%	▇▇▇▇
109 384	5.92%	▪	operator	109 384	31.13%	▇▇
100 861	5.46%	▪	shelter	100 861	91.32%	▇▇▇▇▇
99 880	5.41%	▪	ref	99 880	23.70%	▇▇
93 122	5.04%	▪	naptan:PlusbusZoneRef	93 122	87.74%	▇▇▇▇

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highway

The highway tag is the primary tag used for any kind of street or way.

↗ XAPI   ↗ JOSM

Filter: Nodes only ▾

	Number of objects		Values
✳	39 038 195	3.47%	1 402
⊡	1 846 264	2.68%	548
⬚	37 188 328	42.07%	970
⬚	3 603	0.38%	37

| Values | Kombinationen | Karte | **Wiki** | JOSM |

Wiki pages about this key

Language	Wikipage	Description	Image	Objects	Implied Tags	
de Deutsch	↗ DE:Key:highway	Highway ist das Haupt-Tag für Straßen und Wege aller Art.	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚	access=yes	
en English	↗ Key:highway	The highway tag is the primary tag used for any kind of stree	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚	access=yes	
et eesti	↗ Et:Key:highway	"highway" on ükskõik millise tänava või tee peamine märgis.	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚	access=yes	
fr français	↗ FR:Key:highway	Le tag highway est le tag principal utilisé pour toutes sortes	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚		
it Italiano	↗ IT:Key:highway	La chiave highway è quella principale per etichettare le strad	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚		
ja 日本語	↗ JA:Key:highway	highwayタグは、道路や道を表す物に使われる中心的なタグです。	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚	access=yes	
pl polski	↗ Pl:Key:highway	The highway tag is the primary tag used for any kind of stree	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚	access=yes	
pt-br Português do Bra	↗ Pt-br:Key:highway	O "tag" "highway" é o "tag" primário usado para qualquer tip	↗ Image:Dirt road para-br.jpg	⊡⬚⬚⬚	access=yes	
pt-br Português do Bra	↗ PT-br:Key:highway			⬚⬚⬚⬚		
ru русский язык	↗ RU:Key:highway	Тег highway это основной тег, применяемый для обозначен	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚	access=yes	
sq Shqip	↗ Sq:Key:highway	Highway ist das Haupt-Tag für Straßen und Wege aller Art.	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚	access=yes	
sq Shqip	↗ SQ:Key:highway			⬚⬚⬚⬚		
tr Türkçe	↗ Tr:Key:highway	highway etiketi öncelikle her türlü yolu belirlemekte kullanılı	↗ Image:Motorway-photo.jpg	⊡⬚⬚⬚		

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highway

The highway tag is the primary tag used for any kind of street or way.

XAPI | JOSM

Filter: No filter

	Number of objects		Values
✱	39 038 195	3.47%	1 402
▫	1 846 264	2.68%	548
⬦	37 188 328	42.07%	970
⬚	3 603	0.38%	37

| Values | Kombinationen | Karte | Wiki | **JOSM** |

JOSM style rules with this key

Choose style: Standard

Value	Rule XML
bridleway	XML
bus_guideway	XML
bus_stop	XML
choker	XML
construction	XML
crossing	XML
cushion	XML
cycleway	XML
emergency_access_point	XML
footway	XML
ford	XML
incline	XML
incline_steep	XML
living_street	XML
mini_roundabout	XML

<rule> <condition k='highway' v='construction'/> <line dashed='true' priority='10' colour='construction#ffff00' width='2' realwidth='5'/> <icon src='misc/construction.png' priority='10'/> </rule>

15 | ◀◀ ◀ Seite 1 von 3 ▶ ▶▶ | Eintrag 1 bis 15 von 43
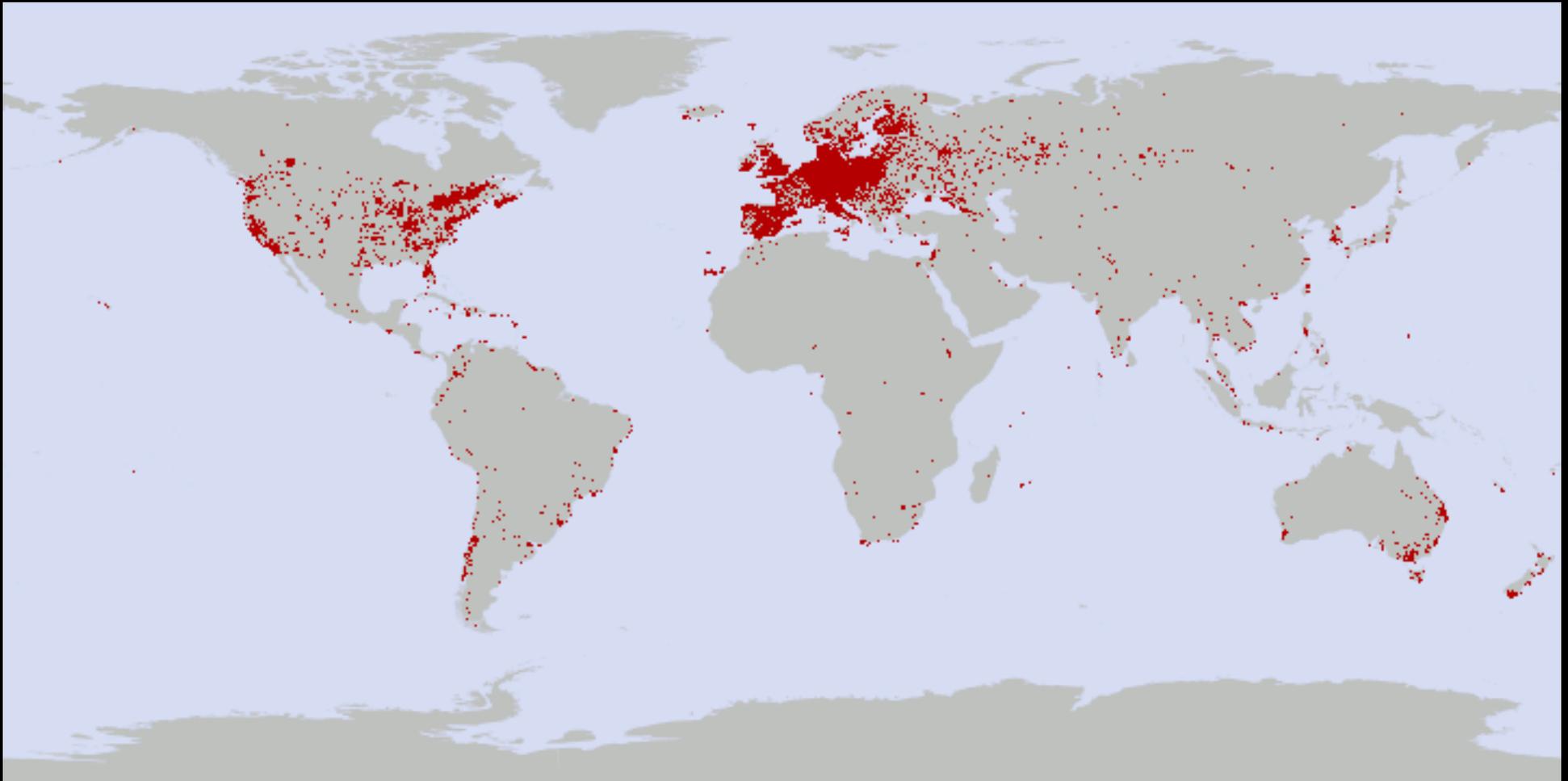
Karte

Verteilung addr:housenumber

Karte

Verteilung addr:conscriptionnumber

Karte

- Nur für Nodes

- Nur für Keys (nicht ganze Tags)

- Statische Karten mit 720x360 Pixeln

- Zeigt nur Vorkommen, nicht Häufigkeit

- Speicheraufwand:
  25.000 Keys * 720x360 / 8 = 772 MByte

I18N

Deutsch ▾

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English ▾

Data from: 2011-04-01 22:00 UTC | Sources | Download | About Taginfo | Wiki

Italiano ▾

Dati da: 2011-04-01 22:00 UTC | Fonti | Download | Riguardo a Taginfo | Wiki
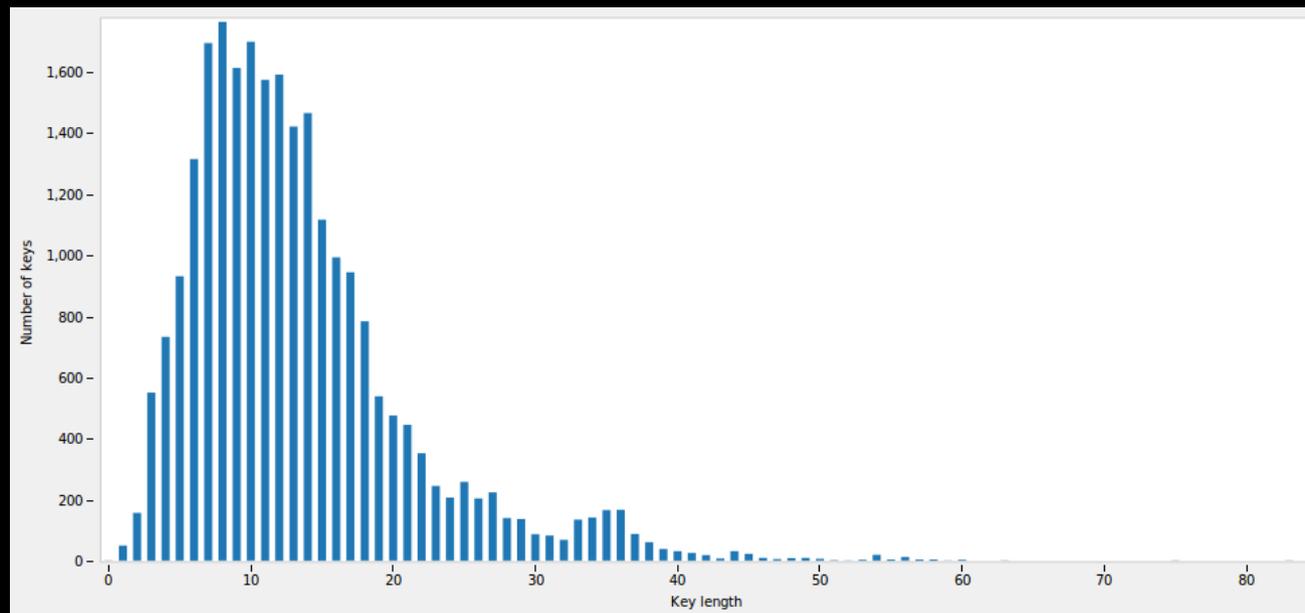
Suche

- Suche nach: Keys, Values, Tags

- Autocomplete

- OpenSearch

- Benutzt Sqlite Full Text Search (FTS3) extension

Reports

- Fassen meist Daten aus mehreren Quellen zusammen

- Zeigen Daten aus verschiedenen Perspektiven

- Tabellarisch und teilweise mit Graphen

Vorhandene Reports

- Zeichen in Keys

- Häufig benutzte Keys ohne Wiki-Seite

- Key-Längen

- Sprach-Vergleichstabelle für Keys aus dem Wiki

- Sprachen

- Wiki-Seiten über nicht-existierende Keys

API

- RESTful Web API

- Kann und darf jeder benutzen

- Wird auch intern benutzt

- Anfrageparameter in URL

- Ergebnis immer JSON

```
/api/2/db/keys/values?
  key=landuse&filter=all&
  page=1&rp=15&
  sortname=count&sortorder=desc
```

Wiki-Einbindung

- Auf allen Key- und Tag-Seiten

- Wird live eingeblendet

- Eingebaut ins Template

- Nutzt `iframe` und spezielles Mediawiki-Plugin

TODO

- Historische Daten?

- Geographische Aufteilung?

- Detailliertere Statistiken?

- Weitere Quellen?

- Bessere Suche?

- ...

Taginfo Developer Workshop

7./8. Mai in Karlsruhe

Gemeinsam an Taginfo und
verwandten Projekten arbeiten.

Taginfo in eigenen Projekten nutzen.

http://wiki.osm.org/wiki/Taginfo/Workshop2011

The End

Noch Fragen?

taginfo.openstreetmap.de

wiki.osm.org/wiki/Taginfo

OSM

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