

What is ...OSM ...JOSM ...a OSM Map?



Looks better ;-)



Do I draw OpenStreetMap with JOSM?



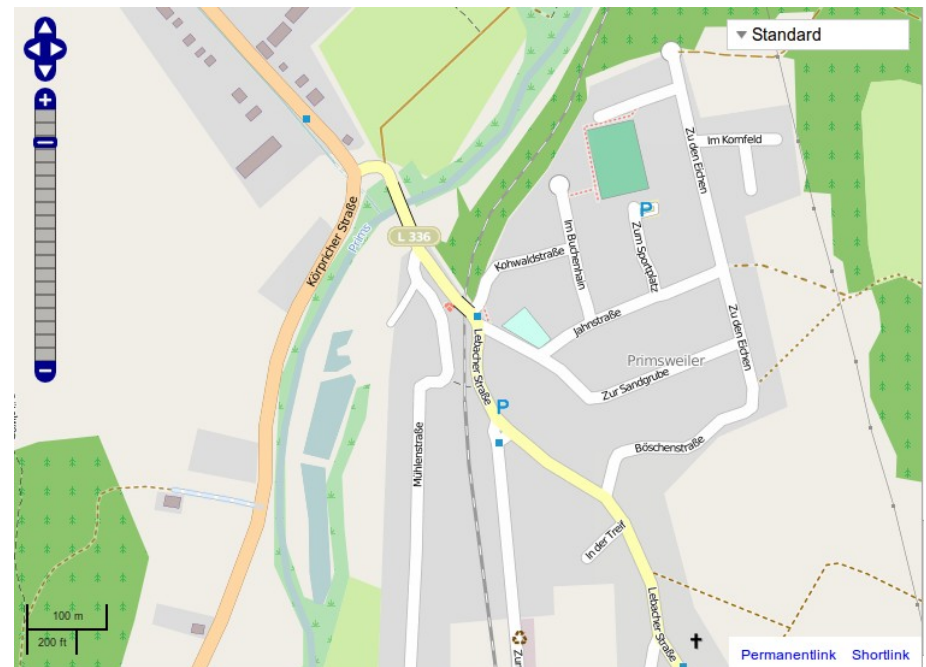
OSM is a DATABASE!

**UPLOAD to a
DATABASE**

**From Database to Map
is called RENDERING**



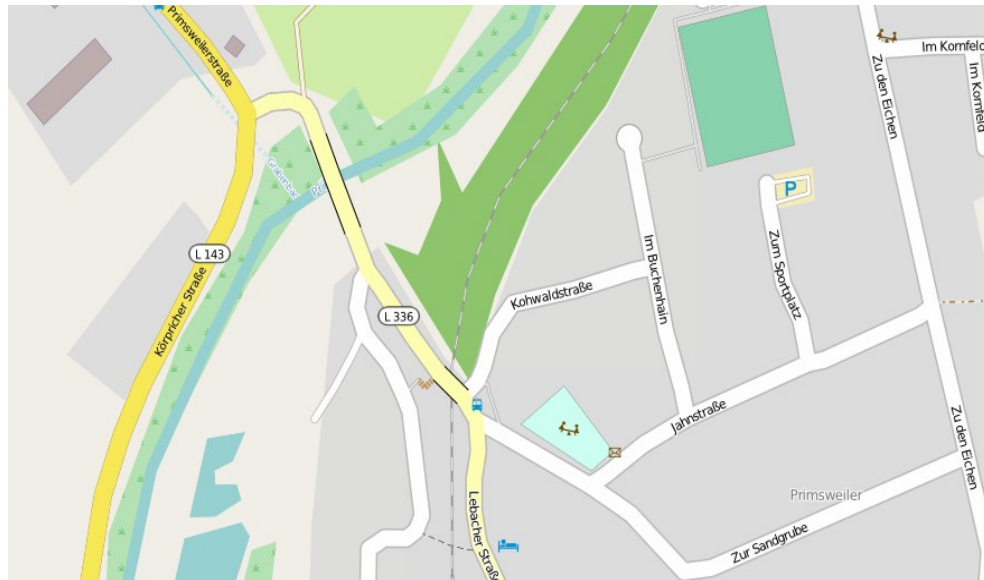
A ?Map? in JOSM



The same map OSM - Mapnik

Rendering is „colour by numbers“ done by a rendering software! ... (Mapnik)

Different renderings->different Maps



Legende:

Verkehrsmittel

- Zug
- S-Bahn
- Tram
- U-Bahn
- Fähre
- Trolleybus
- Bus
- Bushaltestelle
- Haltestelle

Straßen

- Autobahn
- Schnellstraße
- Bundesstraße
- Landstraße
- Kreisstraße
- Nachverkehrsstraße



<http://wiki.openstreetmap.org/wiki/Maps>

What can I see on maps?



(1) Highway –

(a)secondary, (b)tertiary, (c)residential, (d)turning circle, (e)footway, (f)steps, (g)no exit

(2)Railroad

(3)Natural=water

(4)Soccer Field

(5)Church

(6)Bus-Stop

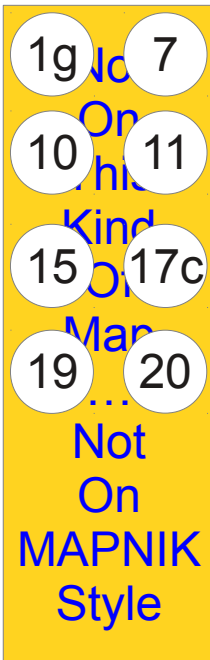
(7)Cycle way

(8)Recycling

(9)Parking

(10)Traffic sign – City limit

(11)Restaurant



(12)landuse residential (13)Building (14)play ground (15)post-box (16)bridge (17)waterway – (a)stream, (b)river, (c)weir (18)Power line (19)Speed Limit (20)End of Cycle Way

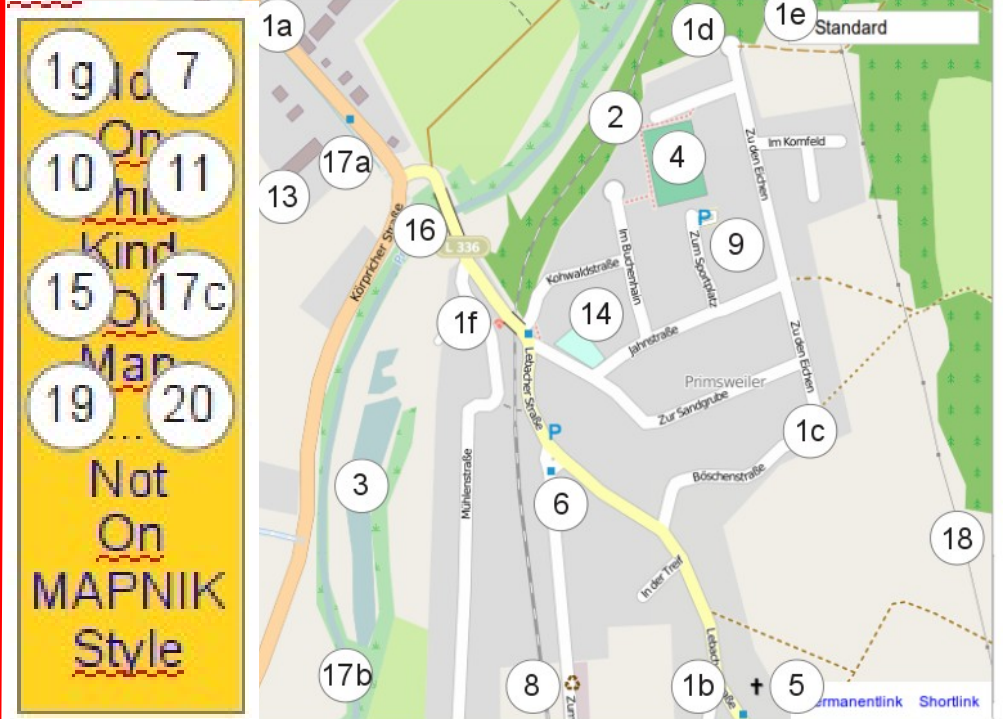
What do I do in JOSM?

**UPLOAD to a
DATABASE**



Here we collect as many data as possible

**From Database to Map
is called RENDERING**

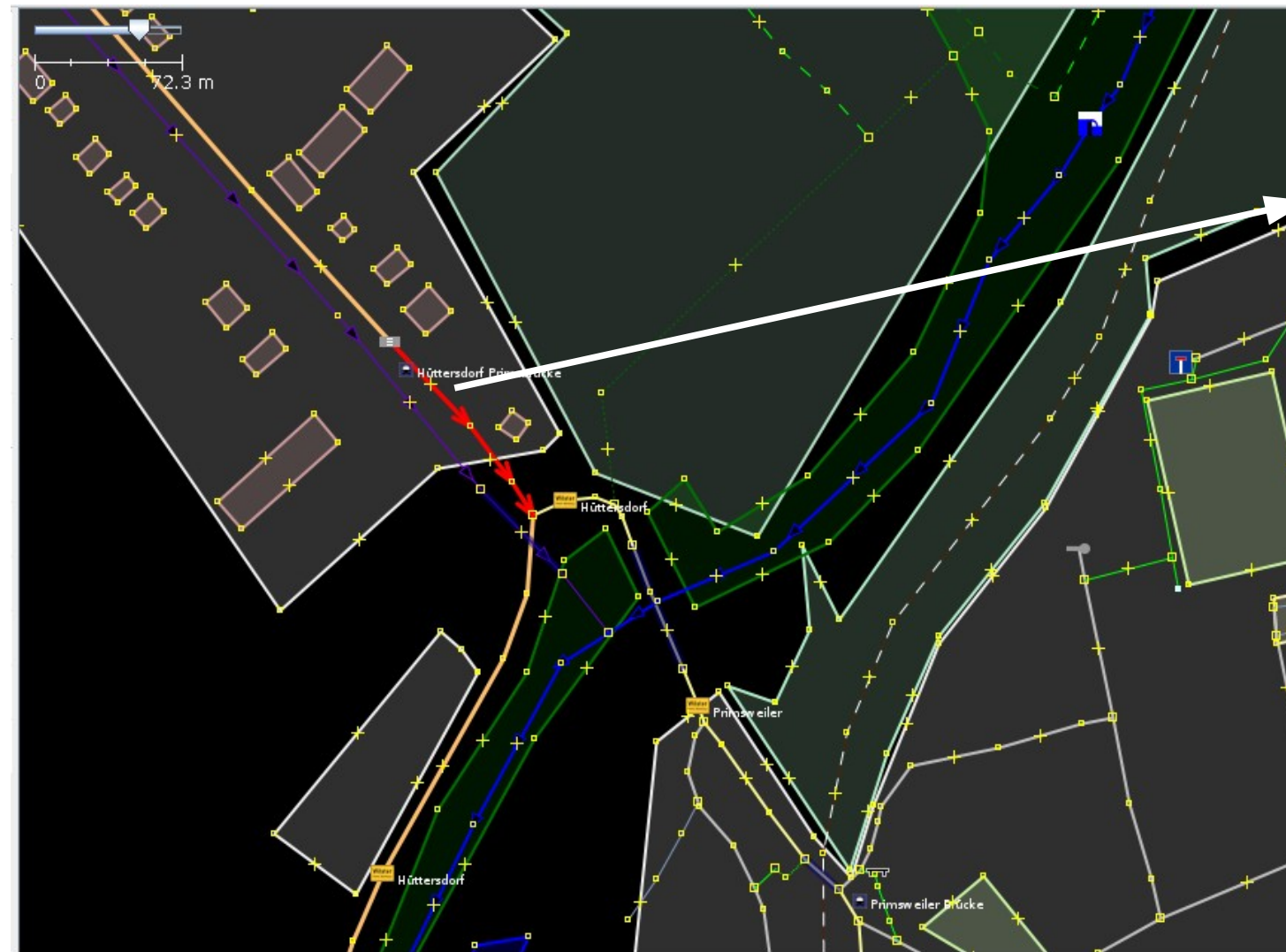


The style of a map depends on the renderer

Rendering is „colour by numbers“ done by a rendering software!

How do I describe a ... in JOSM?

Highway=secondary



Ebenen
Datenebene 1

Eigenschaften: 4 / Mitgliedschaften: 5
Highways/Streets/Secondary ...

| Schlüssel | Wert |
|-----------|------------------|
| highway | secondary |
| maxspeed | 50 |
| name | Primweilerstraße |
| ref | L 143 |

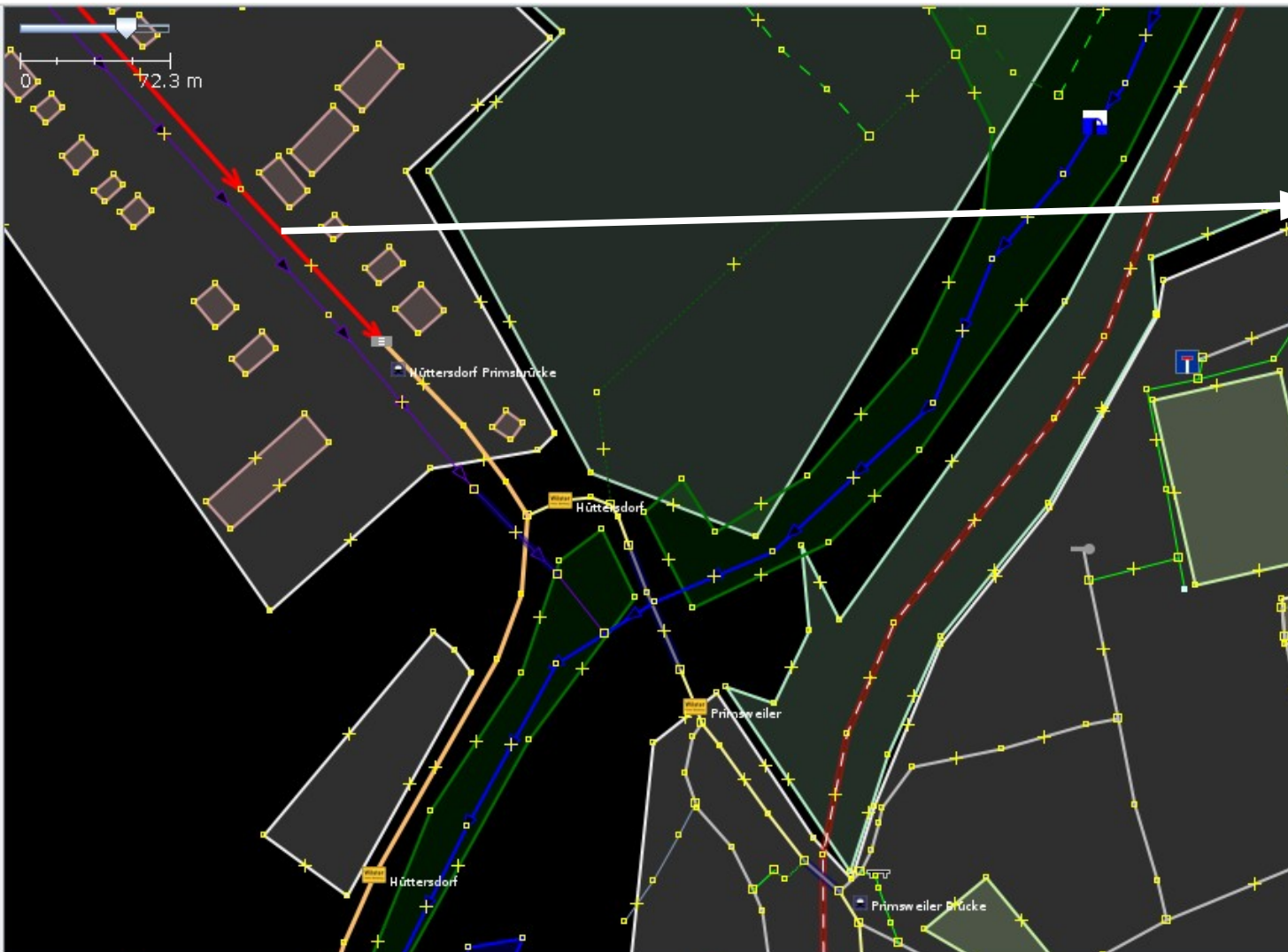
| Element von | Rolle | Position |
|--|-------|----------|
| route ("466", 161 Elemente, unvoll... | | 112 |
| route ("468", 107 Elemente, unvoll... | | 77 |
| route ("L 143", 35 Elemente, unvoll... | | 20 |
| route ("Lebacher Runde", 123 Ele... | | 23 |
| route ("Schmelzer Runde", 72 Elem... | | 42 |

Ausw.: Rel.:0/Lin.:1/Pkte:0
Primweilerstraße (4 Punkte)

Befehlsliste

Highway=secondary cycleway:right=lane

How do I describe a ...



Ebenen

☒ Datenebene 1

Eigenschaften: 5 / Mitgliedschaften: 5

Highways/Streets/Secondary ...

| Schlüssel | Wert |
|----------------|-------------------|
| cycleway:right | lane |
| highway | secondary |
| maxspeed | 50 |
| name | Primswillerstraße |
| ref | L 143 |

| Element von | Rolle | Position |
|---|-------|----------|
| route ("466", 161 Elemente, unvoll...) | | 114 |
| route ("468", 107 Elemente, unvoll...) | | 106 |
| route ("L 143", 35 Elemente, unvoll...) | | 21 |
| route ("Lebacher Runde", 123 Ele...) | | 24 |
| route ("Schmelzer Runde", 72 Elem...) | | 43 |

Ausw.: Rel.:0/Lin.:1/Pkte:0

Primswillerstraße (5 Punkte)

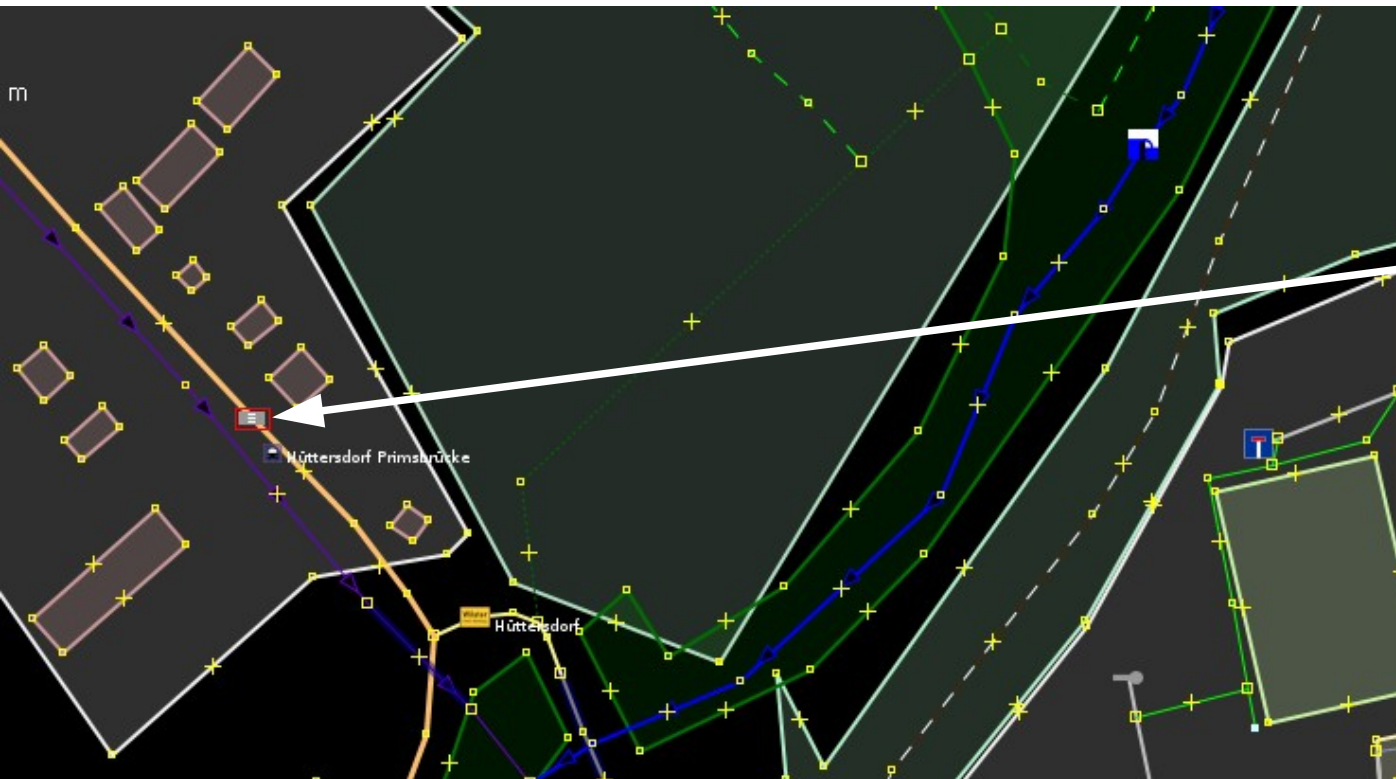
Befehlsliste

.4139726 6.8539688 478.3 m (kein Objekt)

Maustaste loslassen, um die Bewegung zu stoppen. Strg: mit dem nächsten Punkt vereinigen.

How do I describe a ... in JOSM

highway=crossing



Ebenen

☒ Datenebene 1

Eigenschaften: 2 / Mitgliedschaften: 0

Highways/Waypoints/Pedestrian Crossing ...




| Schlüssel | Wert |
|------------|----------|
| created_by | JOSM |
| highway | crossing |

Main technical and colloquial terms - 1 -

The Four Elements



FOUR MAIN ELEMENTS

| | | | |
|----------|----------|--|--|
| Punkt | Node | An object with an ID, a Latitude and a Longitude. Nodes can also have tags. |  |
| Linie | Way | An ordered list of one or more Nodes. Ways get rendered as streets/railways/footpaths/canals etc according to the tag(s) indicating what type of way it is. Ways are contiguous and non-branching. (You can get from beginning to end by following segments of the way, without "jumping" or backtracing) |  |
| Fläche | Aera | In map rendering terms, an area is a shaded polygon representing for example a house, a park or industrial area. |  |
| Relation | Relation | Relations are a new kind of data primitive added more recently. They are basically groups of objects in which each object may take on a specific role. Relations may also have tags. | |

See: <http://wiki.openstreetmap.org/wiki/Glossary>

and for translation: <http://wiki.openstreetmap.org/wiki/DE:Glossary>

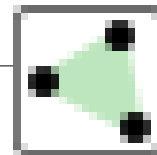
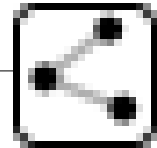
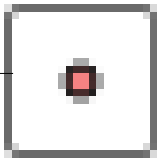
Main technical and colloquial terms - 2 -

Element → Tag → Key=Value



TAG

Elements



| Eigenschaften: 11 / Mitgliedschaften: 0 | |
|---|---|
| Einrichtungen/Bildung/Schule ... | |
| Anmerkung/Adressen ... | |
| Anmerkung/Kontakt (übliche Methode) ... | |
| Schlüssel | Wert |
| addr:city | Saarburg |
| addr:country | DE |
| addr:postcode | 54439 |
| addr:street | Boorwiesenstraße |
| amenity | school |
| image | http://www.bbs-saarburg.de/images/Gebaeu... |
| isced:level | 3 |
| name | Geschwister-Scholl-Schule (BBS) Saarburg |
| school:de | Berufsbildende Schule |
| website | http://www.bbs-saarburg.de |
| wheelchair | yes |

See: <http://wiki.openstreetmap.org/wiki/Glossary>

and for translation: <http://wiki.openstreetmap.org/wiki/DE:Glossary>

Q & A

<http://www.openwhatevermap.org/>

