

OpenStreetMap



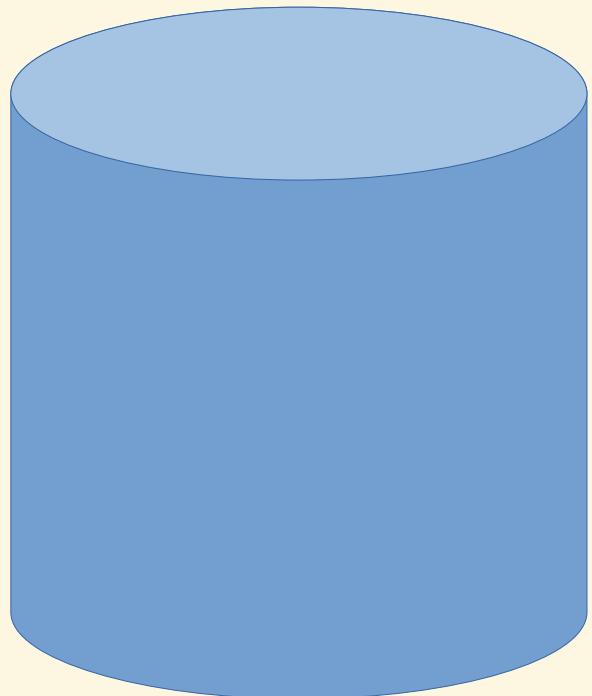
OpenStreetMap

Bearbeiten Chronik Export Mehr bufferclip

Suchen Wo ist das? Los

This screenshot shows a detailed OpenStreetMap of the Salzburg Altstadt area. The map includes numerous streets, buildings, and landmarks. Key features labeled include the 'Salzburg Altstadt' (Altstadt), 'Maxglan', 'Burgfried', 'Lehen', 'Mühl', 'Rosenhugel', 'Mirabelgarten', and 'Monchsberg'. Major roads are marked with orange lines, including the B155, B1, and Glanbach. A river, the Salzach, flows through the city. The map also shows several parks and green spaces. A scale bar at the bottom left indicates distances of 300 m and 1000 ft. The top navigation bar includes links for 'Bearbeiten', 'Chronik', 'Export', 'Mehr', and a user account dropdown for 'bufferclip'.

OpenStreetMap is a Database

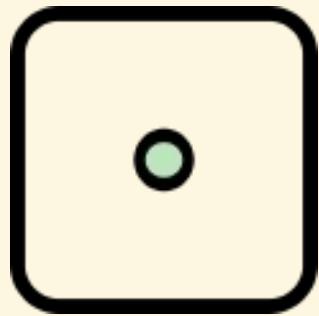


Evolution of OpenStreetMap

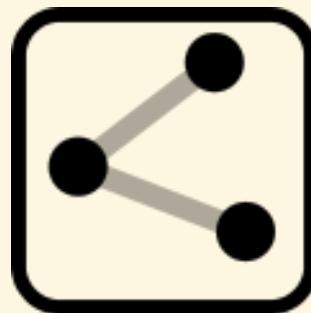


<https://www.youtube.com/watch?v=7sC83j6vzjo>

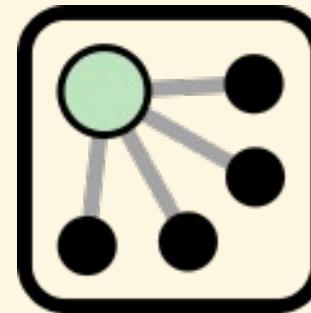
Datatypes



Node



Way



Relation

Node

← → ⌂ https://www.openstreetmap.org/node/2318532642#map=19/47.80975/13.03064

OpenStreetMap Edit History Export More Log In Sign Up

Search Where is this? Go

Node: Stadtwerk Lehen (2318532642) ×
adding bollard and changing details
Edited about 1 year ago by -ckb-
Version #2 · Changeset #52658826
Location: 47.8098624, 13.0306078

Tags

information	board
name	Stadtwerk Lehen
tourism	information

Download XML · View History

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Way (open)

https://www.openstreetmap.org/way/202613663#map=18/47.82329/13.039

OpenStreetMap Edit History Export GPS Traces User Diaries Copyright Help About Log In Sign Up

Search Where is this? Go

Way: Schillerstraße (202613663)

Diverses

Edited 3 months ago by MaisonBlanche

Version #4 · Changeset #73640000

Tags

bicycle	yes
foot	yes
highway	service
motor_vehicle	delivery
name	Schillerstraße
surface	asphalt

Nodes

1692249673 (part of ways Schillerstraße (156988918) and Schillerstraße (202613664))
2125770208
2125770209 (part of ways 298775252 and 298775251)

Download XML · View History

30 m 100 ft

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Way (closed)

← → C https://www.openstreetmap.org/way/142305885#map=19/47.80951/13.03087

OpenStreetMap Edit History Export More Log In Sign Up

Search Where is this? Go

Way: Volkshochschule Salzburg (142305885)

Modified via wheelmap.org
Edited about 1 year ago by wheelmap_visitor
Version #6 - Changeset #52648377

Tags

amenity	college
building	house
building:levels	10
name	Volkshochschule Salzburg
source	http://www.volkschuhciale.at/die-volkshochschule-salzburg/neues-haus/
toilets:wheelchair	yes
wheelchair	yes

Nodes

- 1557551225
- 1557551230
- 1557551232
- 1557551219
- 1557551216
- 1557551222
- 1557551220
- 1557551214

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Relation

<https://www.openstreetmap.org/relation/224879#map=19/47.82319/13>

Relation: TechnoZ XII / BFI Salzburg (224879)

Korrektur gem. OSM-Note

Edited over 2 years ago by tunnelbauer
Version #2 · Changeset #46809050

Tags

building	yes
name	TechnoZ XII / BFI Salzburg
type	multipolygon

Members

Way 39942465 as inner
Way 39942466 as outer

[Download XML](#) · [View History](#)

Relation

← → C 🔍 https://www.openstreetmap.org/relation/7814443#map=14/47.8138/13.0273

OpenStreetMap Edit History Export More Log In Sign Up

Search Where is this? Go

Relation: Bus 24 Ferdinand-Hanusch-Platz - Freilassing (7814443)

ads corrs

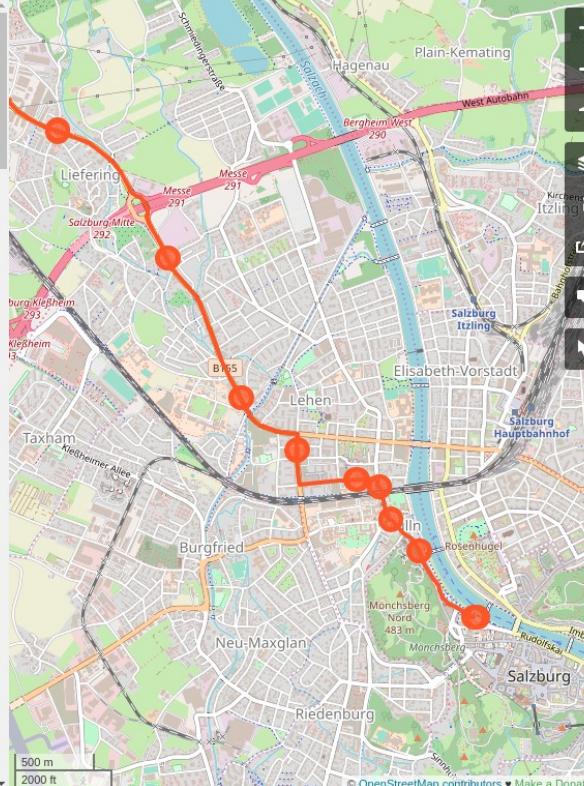
Edited 2 months ago by noeCart
Version #7 - Changeset #61208023

Tags

colour	#990066
from	Ferdinand-Hanusch-Platz
name	Bus 24 Ferdinand-Hanusch-Platz - Freilassing
network	SVV
operator	Albus
public_transport:version	2
ref	24
route	bus
to	Freilassing
type	route

Part of

Relation Albus - Linie 24 (7814444)



500 m
2000 ft

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Tags

wiki.openstreetmap.org/wiki/Map_Features

leisure				ice_rink		A place where you can skate and play bandy or ice hockey.		4 206 66
leisure				marina		A facility for mooring leisure yachts and motor boats.		13 001 9 417 731
leisure				miniature_golf		A place or area where you can play miniature golf.		1 202 4 736 48
leisure				nature_reserve		A protected area of importance for wildlife, flora, fauna or features of geological or other special interest.		3 656 60 338 18 785
leisure				park		A park, usually municipal.		59 126 753 294 21 254
leisure				picnic_table		A table with benches for food and rest		74 415 568 3
leisure				pitch		An area designed for playing a particular sport, normally designated with appropriate markings.		34 216 1 349 280 5 980
leisure				playground		A playground.		145 481 327 869 1 914
leisure				slipway		A slipway		24 120 6 918 10
leisure				sports_centre		A sports centre is a distinct facility where sports take place within an enclosed area.		41 970 124 317 3 315
leisure				stadium		A major sports facility with substantial tiered seating.		2 905 38 991 2 207

Example: “highway”

https://wiki.openstreetmap.org/wiki/Tag:highway%3Dresidential

English Magicgate Talk Preferences Watchlist Contributions Log out

Tag:highway=residential

Tag:highway=residential - Other languages

Bahasa Melayu • čeština • Deutsch • English • español • français • italiano • polski • português • Tiếng Việt • русский • українська • فارسی • ພາສາ • 中文 (简体) • 中文 (繁體) • 日本語 • 粵語

Other languages • Translate

This tag is used for roads accessing or around residential areas but which are not normally used as through routes (which would usually be classified highways or unclassified highways).

This is a useful guideline if you are not sure whether to use **residential** or **unclassified** for streets in towns:

- **residential** - street or road generally used for local traffic within settlement.
- **unclassified** - Unclassified roads typically form the lowest form of the interconnecting grid network (below **highway=tertiary**) roads. Roads serving for interconnection of small settlements. Use **residential** rather than **unclassified** on the road section if there are traffic restrictions (such as slower speed limits) or traffic calming features near small settlements. (See also **highway=unclassified**.)

See also:

- **highway=living_street** - a street where pedestrians have priority over cars, children can play on the street, maximum speed is low.
- **surface=*** - the surface of the street

How to map [edit | edit source]

To map a residential way nothing else other than a simple way is required. Add the **highway=residential** tag to it and a **name=*** if appropriate.

Examples [edit | edit source]

Picture/Description Tags Mannik

highway = residential

highway = residential

Description

Road in a residential area

Group: Highways

Used on these elements

Imply

- access=yes
- foot=yes
- bicycle=yes

Useful combination

- name=*
- oneway=*

Wikidata

Search Wikidata

Changesets

https://www.openstreetmap.org/changeset/61208023#map=16/47.8159/13.0199

OpenStreetMap Edit History Export More Log In Sign Up

Changeset: 61208023

ads corrs
Closed 2 months ago by noecart

Tags created_by JOSM/1.5 (14026 de)

Discussion Log in to join the discussion

Ways (8)

- 116848438, v9
- Münchner Bundesstraße (62074611, v8)
- Münchner Bundesstraße (62074608, v9)
- Ignaz-Harrer-Straße (62074087, v12)
- Ignaz-Harrer-Straße (62074033, v7)
- Ignaz-Harrer-Straße (4064349, v25)
- 612388481, v1
- Ignaz-Harrer-Straße (612388480, v1)

Relations (9)

- Bus 9535: Entfelden Gasthaus Blasewirt => Bad Reichenhall Hauptbahnhof => Mirabellplatz (8122520, v9)
- Bus 24 Ferdinand-Hanusch-Platz - Freilassing (7814443, v7)
- O-Bus 14 Forellengasse - Polizeidirektion (4204999, v33)
- 2365952, v2
- O-Bus 14 Polizeidirektion - Forellengasse (4204999, v33)

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Notes

← → C https://www.openstreetmap.org/note/1514301

OpenStreetMap Edit History Export More Log In Sign Up

Search Where is this? Go

Unresolved note #1514301 x

Description

Hier fehlt ein Asia Imbiss

Created by anonymous about 1 month ago

This note includes comments from anonymous users which should be independently verified.

Comment

500 m
2000 ft

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Open Database License (ODbL)



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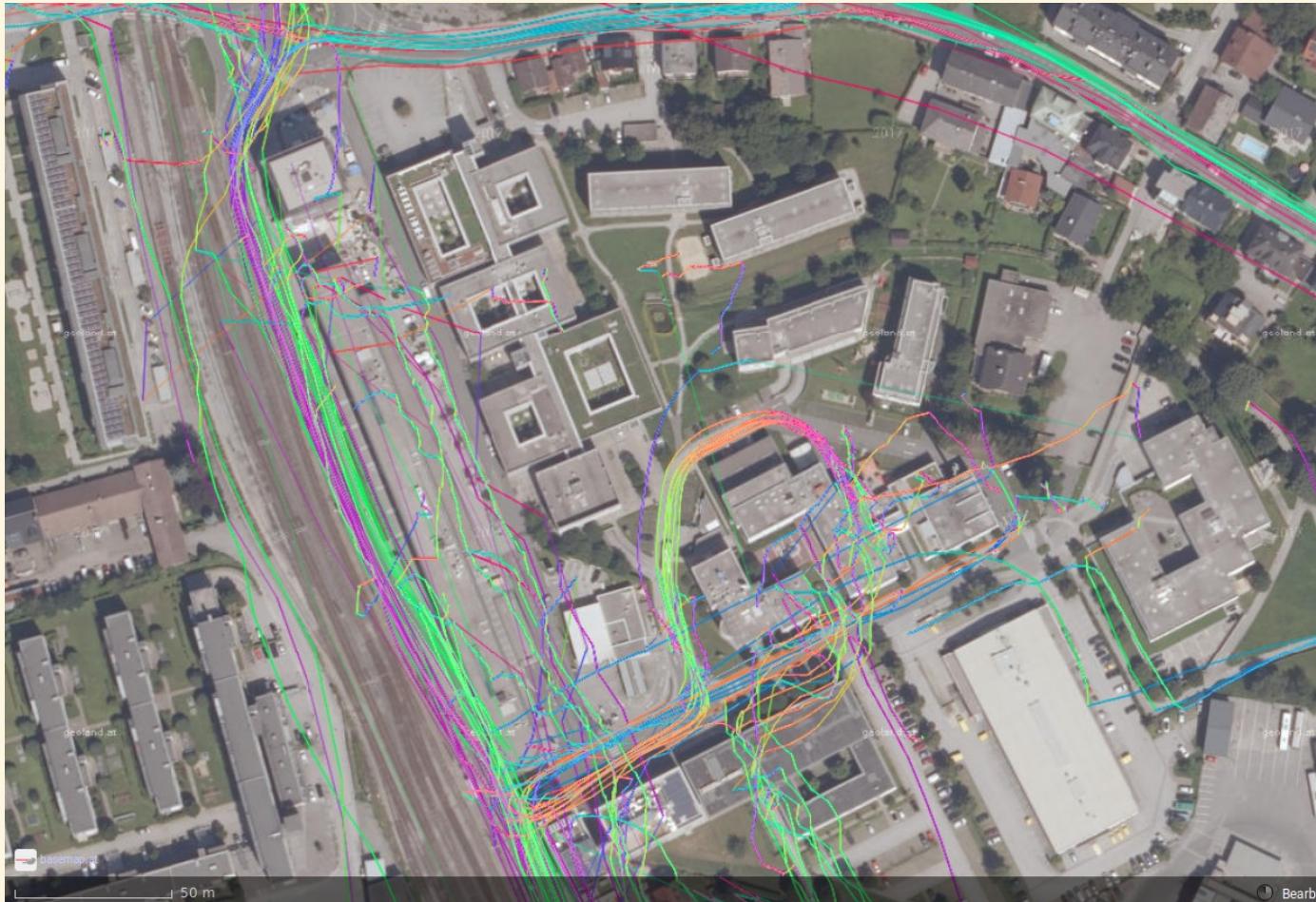
Community



SOTM 2019 Heidelberg by Thomas Skowron (CC BY 2.0)

<https://www.flickr.com/photos/thomersch/48769513121/in/album-72157710997572098/>

Data Source: GPS-Tracks



The image shows an aerial satellite view of a residential and industrial area. Overlaid on the map are numerous GPS tracks, represented by colored lines of varying thicknesses. These tracks form complex loops and paths, primarily concentrated along a railway line and through a residential neighborhood. The colors of the tracks include red, green, blue, orange, purple, and yellow. A legend on the right side of the map provides options for background layers, overlays, and display settings.

Hintergrund

- OpenStreetMap (Standard)
- OpenTopoMap
- Stamen Terrain
- Geoimage.at MaxRes
- basemap.at
- basemap.at Gelände
- basemap.at Oberfläche
- Leer
- Benutzerdefiniert
- Minimap anzeigen
- Zeige Detail-Feld

Melde ein Problem mit dem Hintergrundbildmaterial

Überlagerungen

OpenStreetMap GPS Tracks

Orientierungs-Informationen

basemap.at Überlagerung

Anzeige-Optionen

Helligkeit 100%

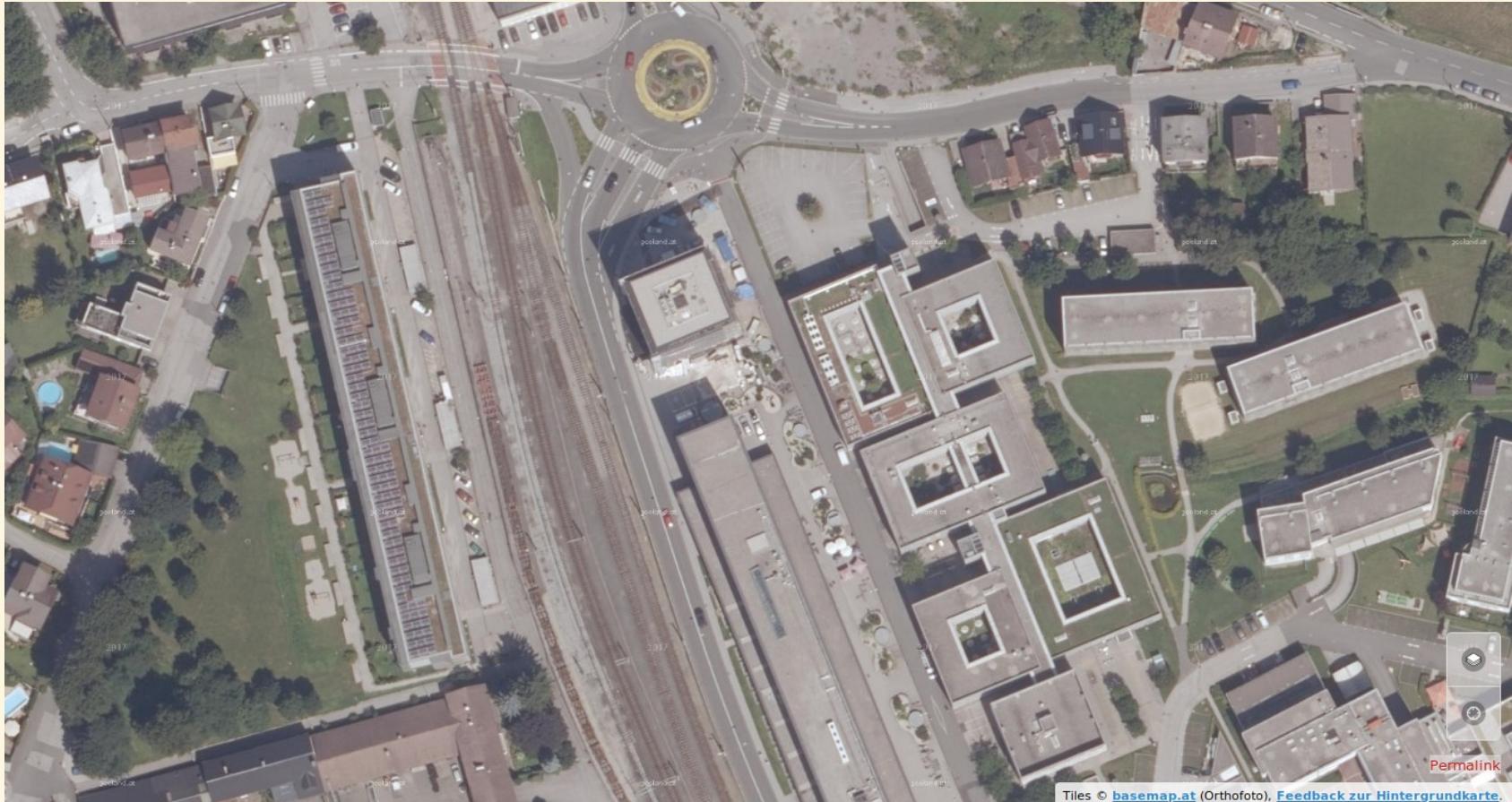
Kontrast 100%

Sättigung 100%

Bearbeitet von tunnelbauer, pegeka, kerguelen, und 52 anderen  2.16.0 

basemap: www.basemap.at

Data Source: Aerial Imagery



Tiles © [basemap.at](#) (Orthofoto), [Feedback zur Hintergrundkarte](#), [Permalink](#)

Data Source

Local Knowledge

Data Source: Data Donation

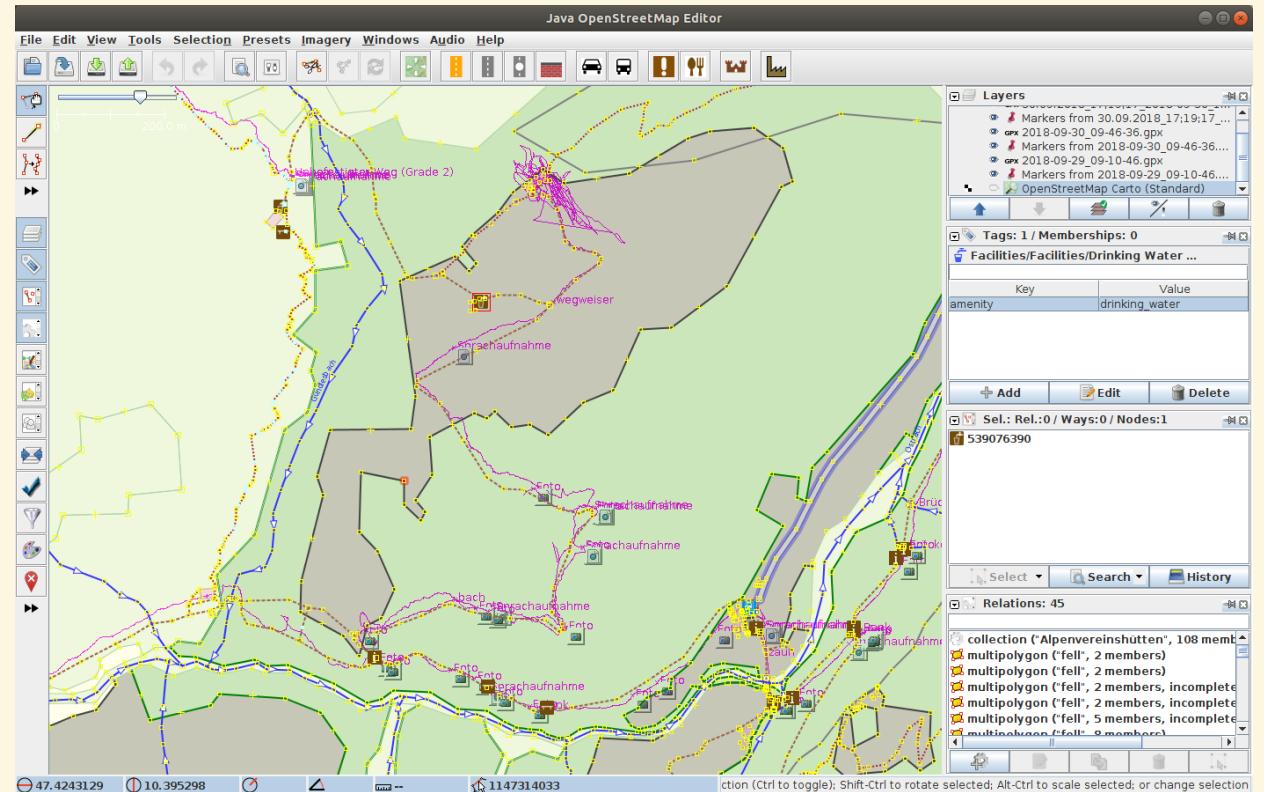
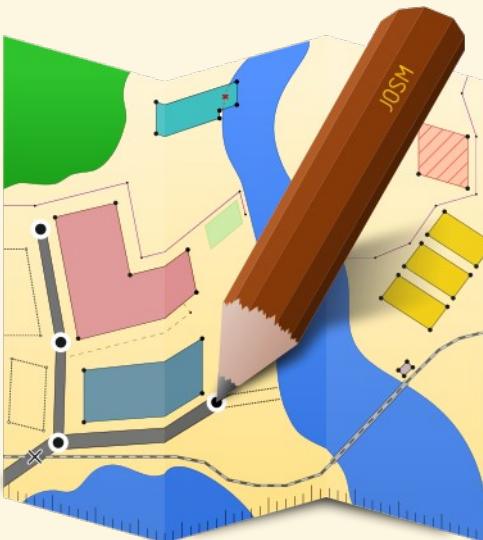


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Data Source: Photos



JOSM



iD Editor

OpenStreetMap Bearbeiten Chronik Export GPS-Tracks Benutzer-Blogs Urheberrecht Hilfe Über bufferclip

< Objekt bearbeiten >

Hochschulgelände

Alle Felder

Eigenname
Volkshochschule Salzburg

Betreiber
Unbekannt

Adresse
Straße 123
Postleitzahl Stadt

Internetzugang
Ja, Nein, Wi-Fi...

SSID (Netzwerk Name)
Unbekannt

Quellen
<http://www.volkschule.at/die-volkschule-salzburg/neues-haus/>

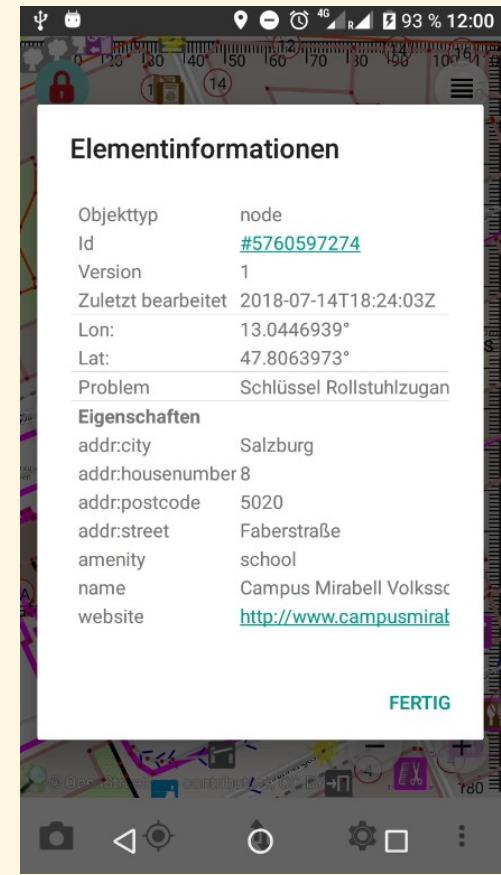
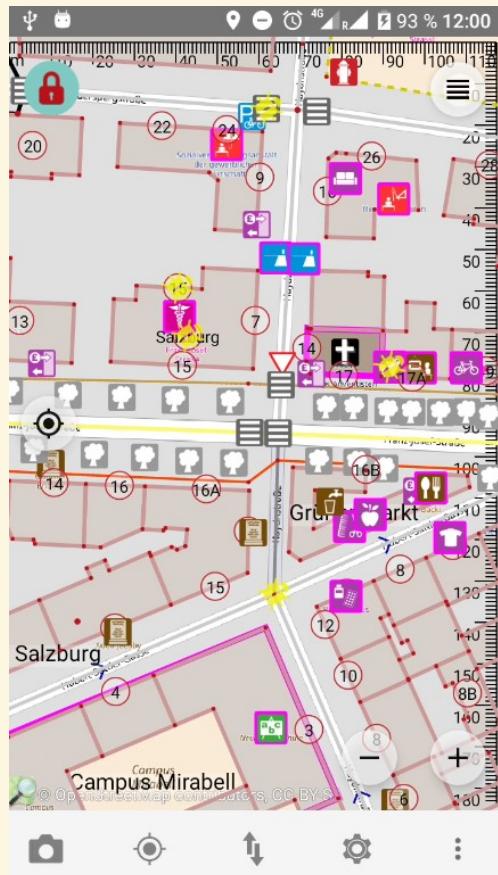
Auf openstreetmap.org ansehen

Punkt Linie Fläche

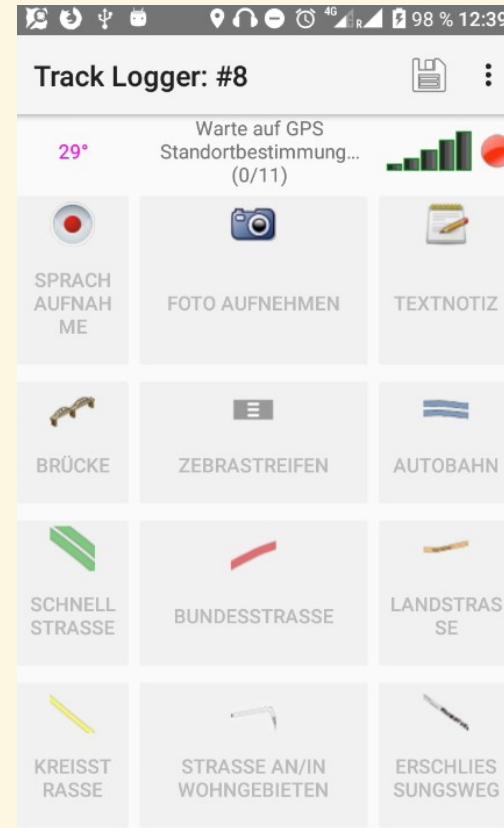
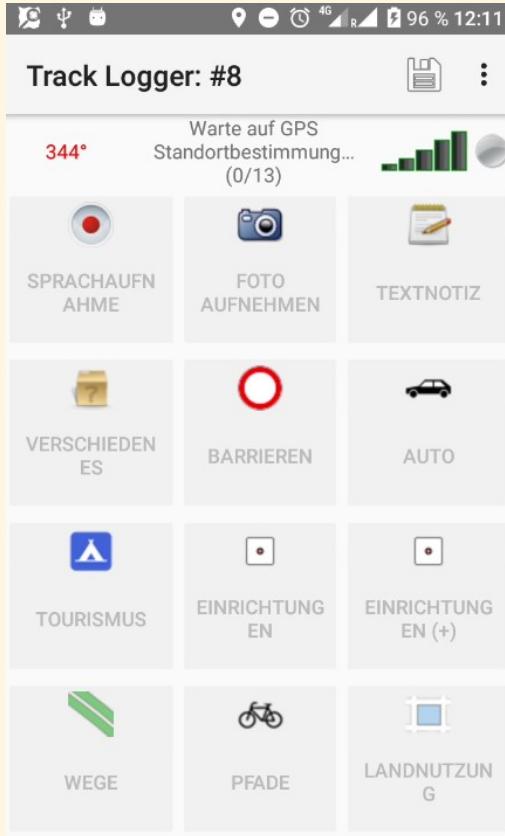
The screenshot shows the iD Editor application interface. At the top, there's a navigation bar with links for OpenStreetMap, Bearbeiten (Edit), Chronik (History), Export, GPS-Tracks, Benutzer-Blogs, Urheberrecht (Copyright), Hilfe (Help), Über (About), and a user account dropdown for 'bufferclip'. Below the navigation is a title bar 'Objekt bearbeiten' with a back arrow, a close button, and tabs for 'Punkt' (Point), 'Linie' (Line), and 'Fläche' (Area). The main area is divided into two sections: a left sidebar for editing object fields and a right map view. The sidebar contains fields for Eigenname (Name), Betreiber (Operator), Adresse (Address), Internetzugang (Internet access), SSID (Network Name), and Quellen (Sources). The 'Eigenname' field is populated with 'Volkshochschule Salzburg'. The 'Adresse' field shows 'Straße 123'. The 'Internetzugang' field has 'Ja, Nein, Wi-Fi...' selected. The 'SSID' field is empty. The 'Quellen' field contains a link to the website of the Volkshochschule Salzburg. The right side of the interface is a satellite-style map of a university campus. Buildings are represented by red polygons, and roads are shown as grey lines with white dashed segments. Various icons are placed on the map, such as a blue dashed line, a green polygon labeled 'geologisch', a yellow polygon labeled 'PMU', and several parking symbols ('P'). A railway track is visible at the bottom, labeled 'Bahnbegleitweg'. A scale bar indicates 50 meters. At the bottom of the map, there are labels for 'Müllner Hauptstraße', 'Gaswerksgasse', and '217.01'. A copyright notice at the bottom right states 'Bearbeitet von 7503146, pegara, tunneltbauer, und 59 anderen' and 'A 2.11.1'.



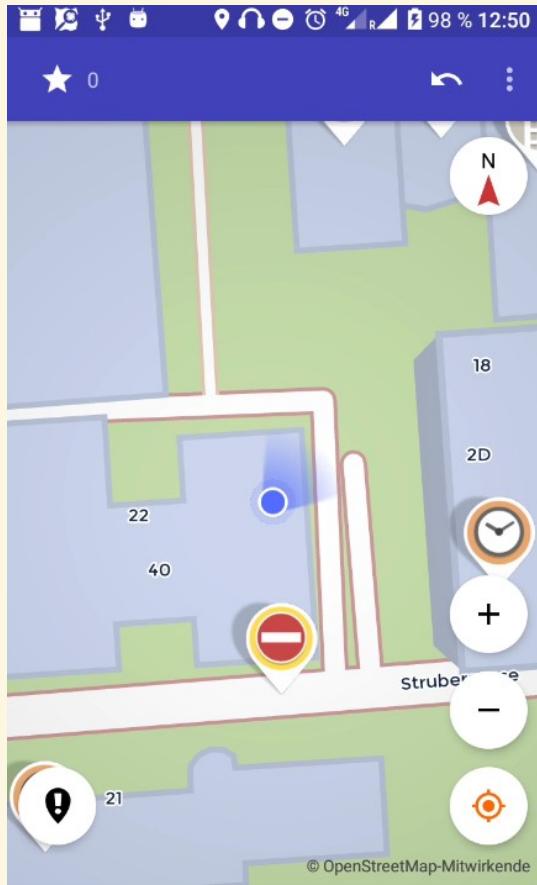
Vespucci



OSMTracker



StreetComplete



Maps.me



**Paracelsus
Medizinische
Privatuniversität**

Universität

17 m



ANRUF



LESEZEICHEN



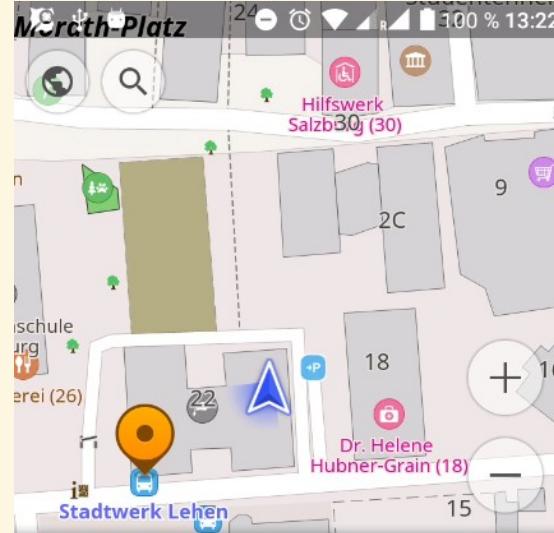
NACH



MEHR

OsmAnd

www.osmand.net



Stadtwerk Lehen

Haltestelle

24

4

▲ 41 m



Hinzufügen

Markierung

Teilen

Aktionen

BESCHREIBUNG

NAVIGATION

Data Quality

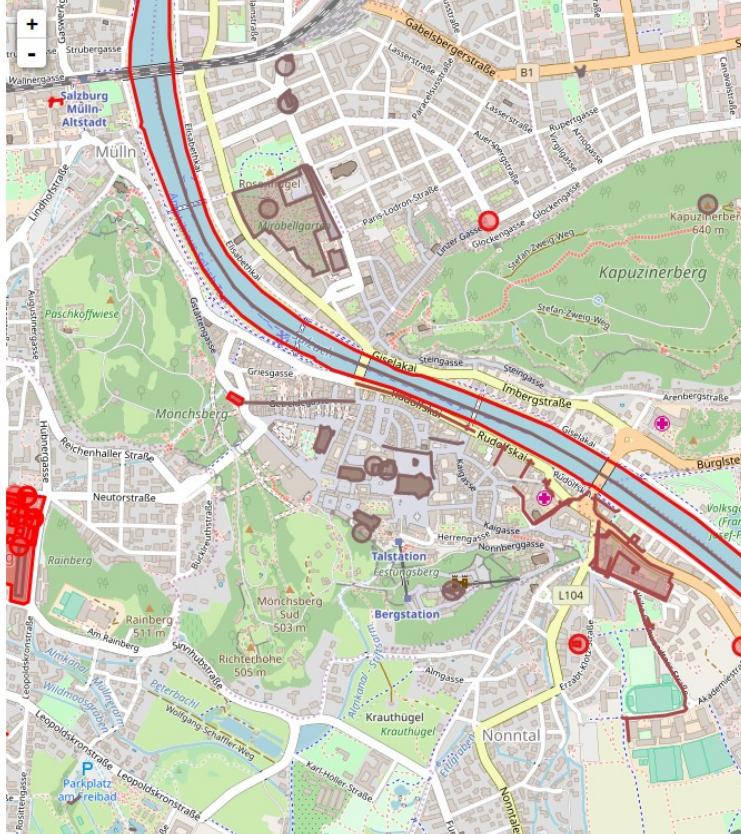
Latest Changes

tyrasd.github.io/latest-changes

Last Month ↗ on OSM

Explore latest changes on OpenStreetMap

- [emga Oct 6th 2018, 11:12:21 pm](#)
Detail Quatier Riedenburg
- [emga Oct 6th 2018, 10:46:07 pm](#)
Detail Franz-Peyerl-Straße
- [emga Oct 4th 2018, 7:31:50 pm](#)
Detail Unterführung
- [gzin Oct 4th 2018, 6:32:23 am](#)
Hochburg-Ach
- [Netzwolf Oct 3rd 2018, 5:48:31 pm](#)
Reparatur von Opening_hours
- [EliasPajares Oct 2nd 2018, 11:00:32 pm](#)
Advertising support (Salzburg, Österreich)
- [deino Oct 1st 2018, 2:24:48 pm](#)
ERDBÄR - Concept Store
- [pegeka Sep 26th 2018, 11:38:31 am](#)
Änderungen und Ergänzungen Salzburg Altstadt Berichtigung
- [Tigranych Sep 18th 2018, 1:55:53 pm](#)
fixed intersection
- [Tigranych Sep 18th 2018, 1:45:03 pm](#)
fixed intersection



Osmose

osmose.openstreetmap.fr

osmose.openstreetmap.fr/en/map/#zoom=15&lat=47.80494&lon=13.02839&item=xxxx&level=1&tag:

Change language ▾ Issues by user Relation analyser Statistics Export ▾ Help ▾ Delay 0.96s Login

Severity High

Fixable

Topic

Select: all nothing invert

Structure 27/27 all nothing

- overlapping building
- invalid polygon
- reverse roundabout
- orphan nodes
- sudden highway type change
- bad *_link highway
- broken highway continuity
- big relation
- multipolygon
- not-connected highway/cycleway
- duplicate geometry
- almost junction

Missing tags 13/13 all nothing

- junction-roundabout
- oneway
- highway
- zone:maxspeed

Bad tag 27/27 all nothing

- bad source tag
- multiple tags
- incorrect tag
- bad tag key
- typo in tag
- parking lane

Europark, Salzburg, Herz Jesu, Karmelitenstraße, B155, Ausleitung Glanbach, Lehen, Rosengasse, Elisabeth-Vorstadt, Salzburger Hauptbahnhof, Gabelsbergerstraße, Lasserstraße, Salzburg Mülln Altstadt, Burgfeld, Maxglan, Neu-Maxglan, Riedenburg, Monchsberg, Talstation, Festung Hohenasperg, 300 m, 1000 ft, Leaflet | © OpenStreetMap contributors

OSM Inspector

tools.geofabrik.de/osmi

OSM Inspector

View: Tagging

Base layer: Mapnik

Geometry

Tagging

Places

Highways

Areas

Coastline

Routing

Addresses

Water

Public Transport - Stops

Public Transport - Routes

Unusual key length

Hidden non-operational tagging

Name/description without important tag

Tagged with FIXME

no feature tags

fixme or todo tag

fixme=check position

fixme=Name muss ev. auch noch gepruft werden

fixme=check position and size

Selection

layer: fixmes_on_ways

way_id: 230609196

tag: fixme=check position

lastchange: 2015-02-11T19:52:43Z

Data

None

Data from 2018-10-06 20:00 (UTC)

13.02544, 47.81084 zoom=16 [Permalink](#)

Data/Maps Copyright 2018 Geofabrik GmbH and OpenStreetMap Contributors | Map tiles: Creative Commons BY-SA 2.0 Data: ODbL 1.0 | Legal Notice/Privacy

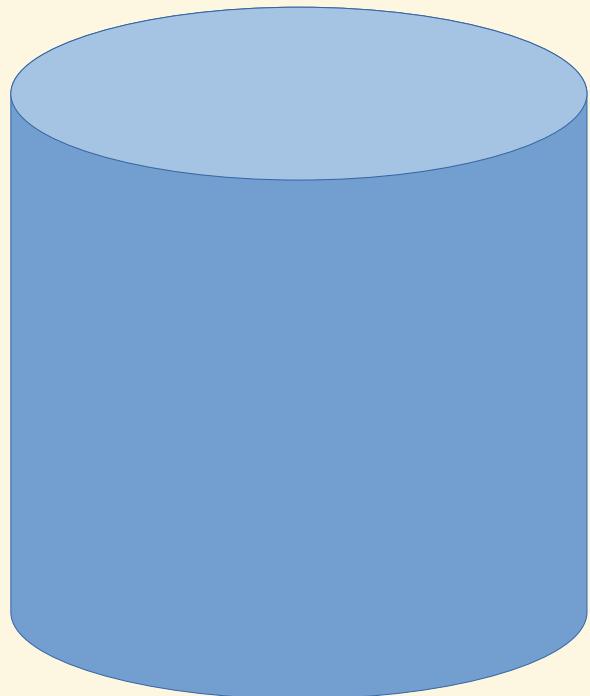
Download

- [GeoFabrik](#)
- [BBBike](#)
- [planet.openstreetmap.org](#)
- [OSMaxx](#)

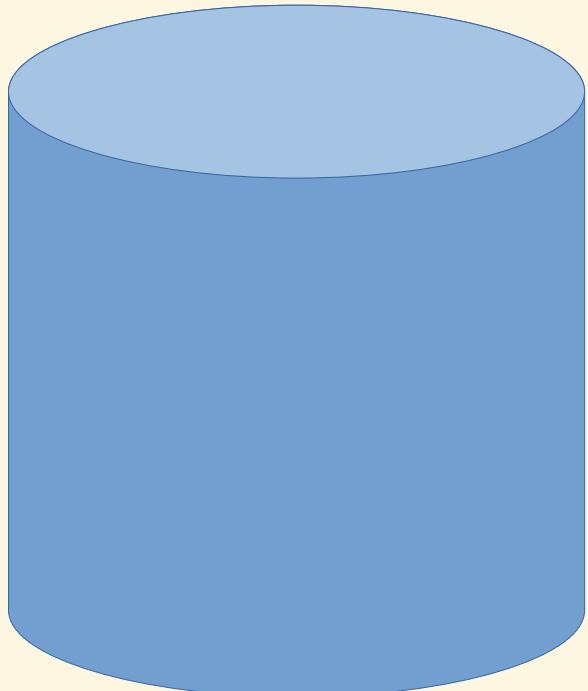


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OpenStreetMap is a Database



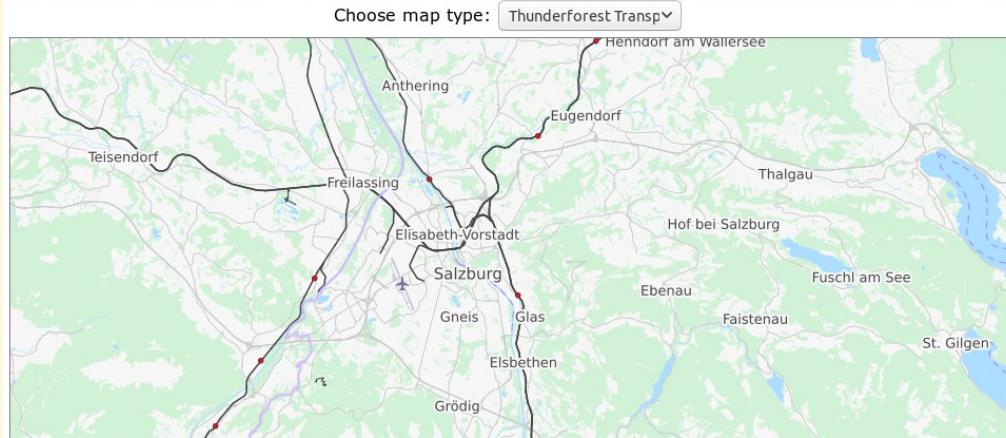
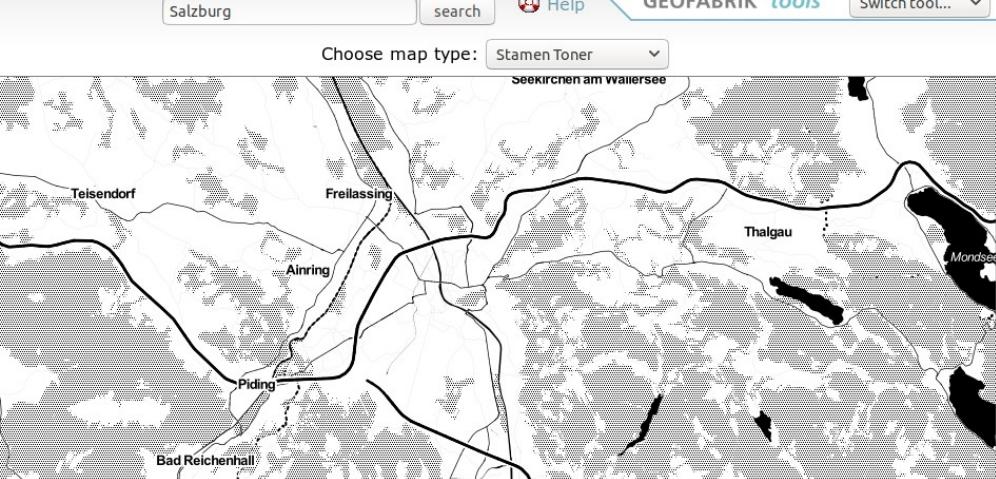
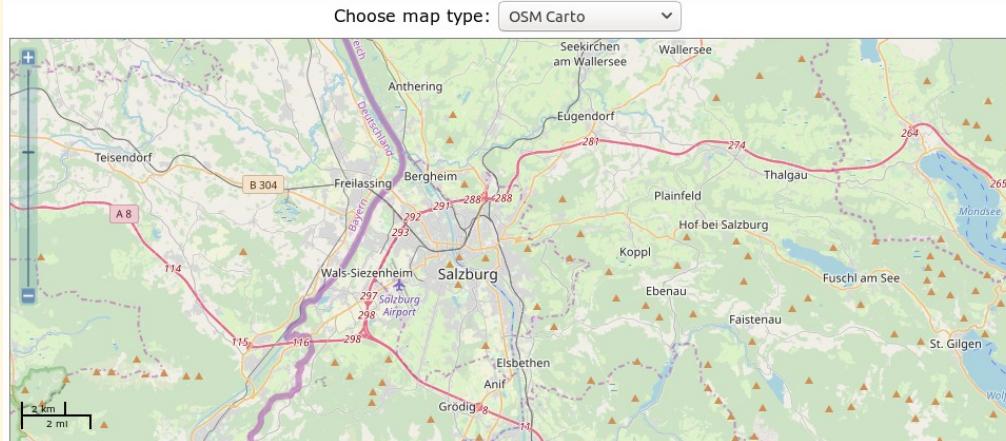
OpenStreetMap is a Database



+ API

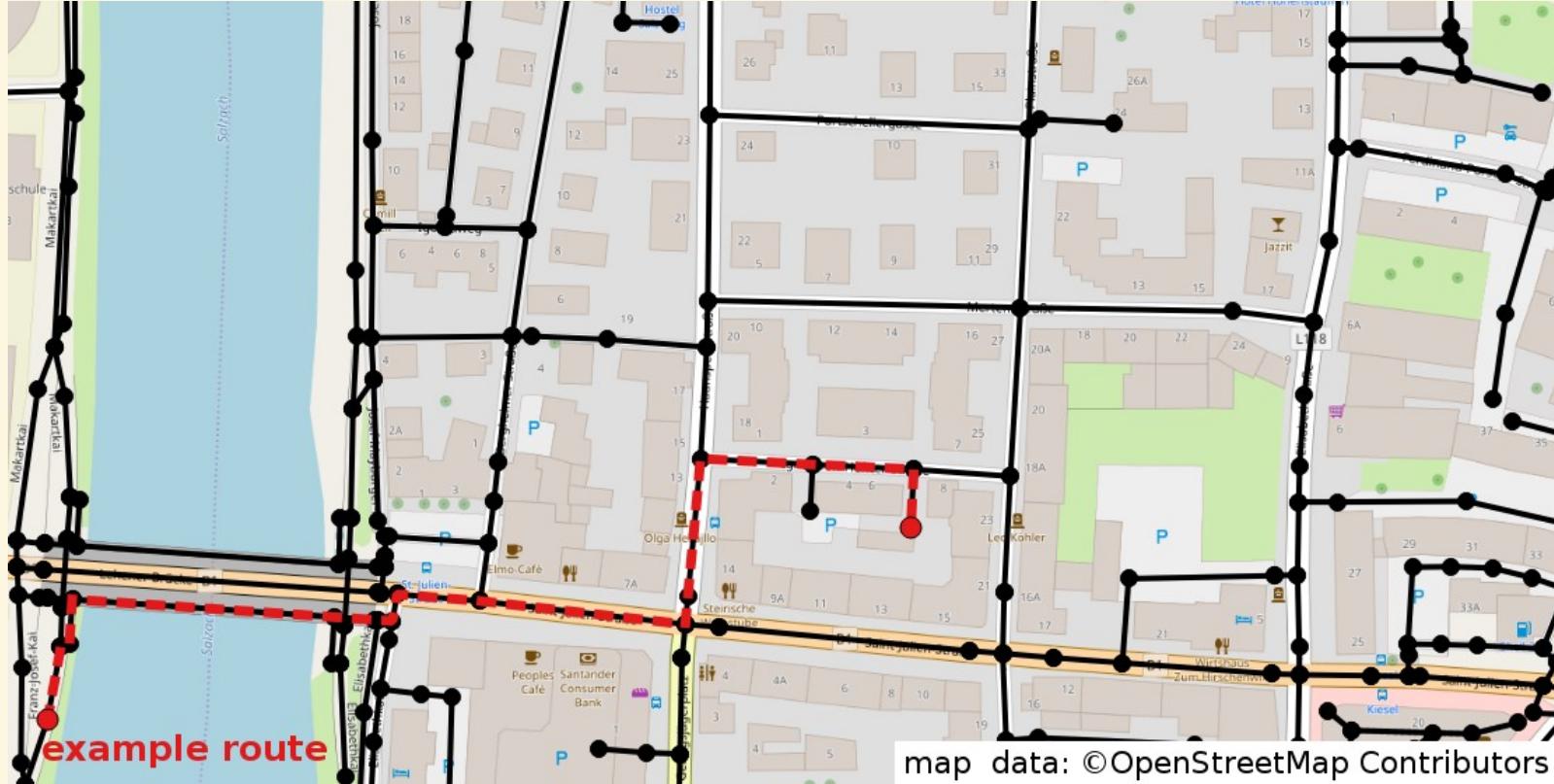
Rendering Examples

Map Compare



zoom=11 number of maps: 1 2 3 4 6 8

Route Planning



Route Planning Software

Graphhopper



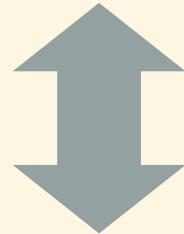
Valhalla



pgRouting

GeoCoding

“... Schillerstraße 30, Salzburg ...”



47.823 13.040

GeoCoding

Nominatim

Photon

Pelias

Data Tools

osm2pgsql

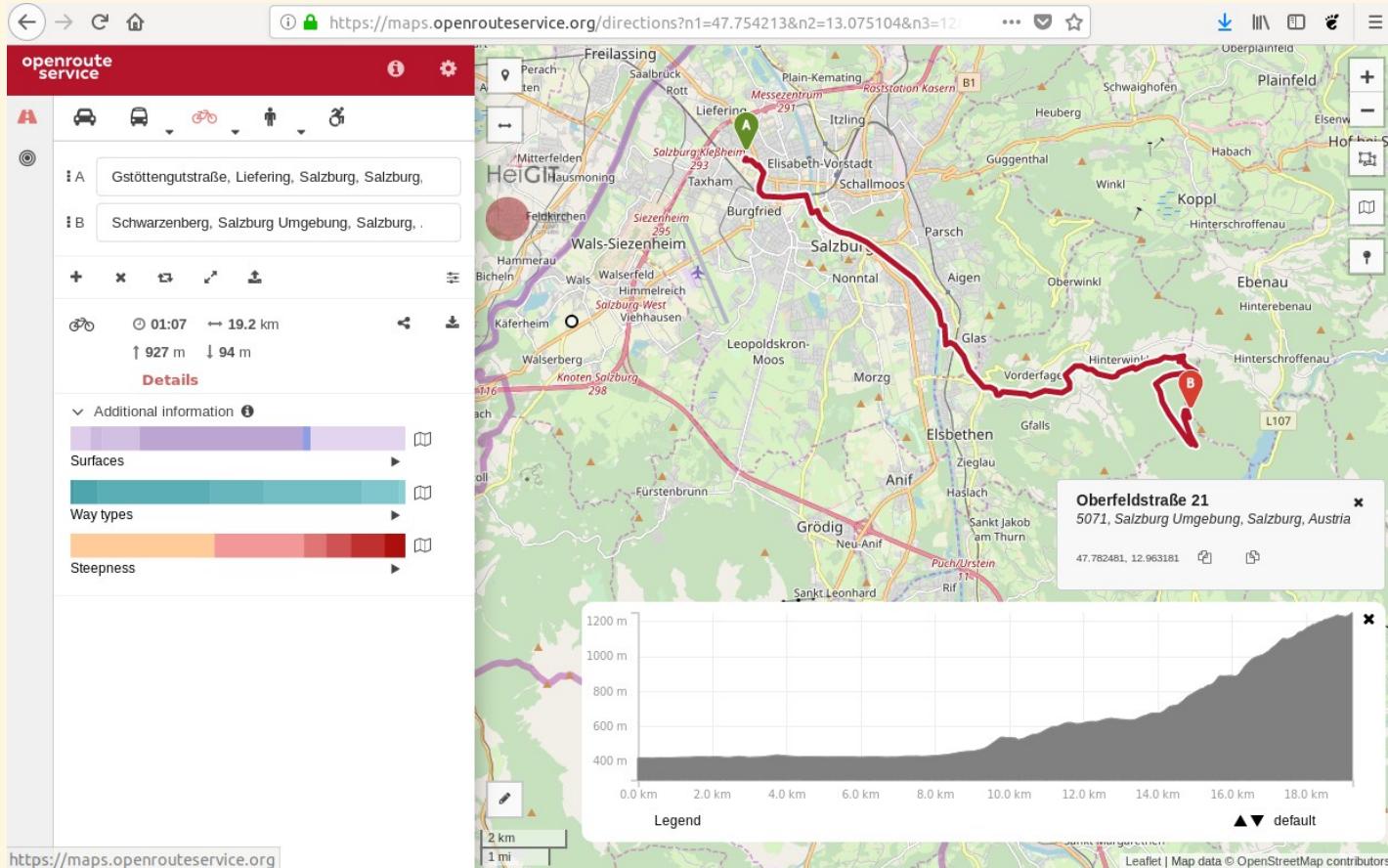
imposm

osmium

ogr2ogr

Route Planning Services

maps.openrouteservice.org



Overpass API

overpass-turbo.eu

Run Share Export Wizard Save Load Settings Help overpass turbo ⚙️ Map Data

```
1  /*
2   This is an example Overpass query.
3   Try it out by pressing the Run button
4   above!
5   You can find more examples with the
6   Load tool.
7 */
8 node
9   [amenity=drinking_water]
10  ({bbox});
11 out;
```

Loaded – nodes: 32, ways: 0, relations: 0
Displayed – pois: 32, lines: 0, polygons: 0



OSM
Downloader

QuickOSM

ORS Tools

Humanitarian OSM



https://www.youtube.com/watch?v=oNZ_ZBCTRqc



<http://maptime.io/salzburg/>

OpenStreetMap



jakob.mikscha@sgb.ac.at

Emojis: Copyright (c) 2018 Twitter, Inc and other contributors

www.jakobmikscha.eu

The screenshot shows a blog post titled "The Structure of OSM data" on the website www.jakobmikscha.eu. The post explains that OSM uses its own data model for topological correctness, consisting of three elements: Node, Way, and Relation. It includes diagrams of each element and a link to the OSM wiki for more information. Below the post is a small map of a riverbank area with buildings and landmarks labeled.

The Structure of OSM data

Most geodata is stored according to the [simple feature](#) standard. However OSM uses an own data model that ensures topological correctness. It consists of 3 [elements](#):

Node

Way

Relation

OSM elements. Image source: <https://wiki.openstreetmap.org>

The [node](#) is the most fundamental element. It is basically a point with an ID number, a latitude, a longitude and some tags for description. It can be used for classic point objects like trees, [bus stops](#) or street signs. However, it also serves as building block for [way](#)s and [relation](#)s.

A small map showing a riverbank area with several buildings and landmarks labeled. Some labels include "Franz-Josef-Kai", "Nagel Auktionen", "Glostar", "Ecology", "Salzach", "Uma Kebab", "Cafe Kebab", "Salzach Grill", "Billa Bazaar", "Bankhaus", "Leiser", "Schwarzenau", "Mammut", "Stern der Mittersteiner", and "Alpinos Splash Tour". The map also shows a bridge and some green areas.