



# OpenStreetMap Data in Layered GIS Format

Version 0.8.0 - 2026-01-15

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## Table of Contents

1	Preface.....	2
2	Introduction.....	3
2.1	Versions.....	3
2.2	Map datum.....	3
2.3	Character encoding.....	3
2.4	Attribute names.....	3
2.5	Common attributes.....	3
2.6	International Names.....	4
2.7	Layers.....	4
2.8	Points and Areas.....	4
2.9	Spillover Shape Files.....	5
3	Layer Overview.....	5
4	Point Features.....	6
4.1	Places (“places”).....	6
4.2	Points of Interest (“pois”).....	7
4.3	Places of Worship (“pofw”).....	14
4.4	Natural Features (“natural”).....	15
4.5	Traffic Related (“traffic”).....	16
4.6	Transport Infrastructure (“transport”).....	18
4.7	Power Generation and Distribution (“power”).....	19
5	Line Features.....	19
5.1	Boundaries (“boundaries”).....	19
5.2	Roads and Paths (“roads”).....	20
5.3	Railways, Subways, Trams, Lifts, and Cable Cars (“railways”).....	21
5.4	Waterways (“waterways”).....	22
5.5	Coastline (“coastline”).....	23
5.6	Power lines (“powerlines”).....	23
5.7	Runways and taxiways (“runways”).....	23
5.8	Infrastructure disused, planned, under construction (“nonop”).....	23



5.9	Barrier-type linear features ("barriers").....	25
6	Polygon Features.....	25
6.1	Administrative Areas ("adminareas").....	25
6.2	Building outlines ("buildings").....	26
6.3	Land use and land cover ("landuse").....	26
6.4	Protected areas ("protected_areas").....	27
6.5	Bodies of Water ("water").....	28
6.6	Landmass and Oceans.....	29
7	Routes.....	29
7.1	Routes ("routes").....	29
7.2	Cycle Route Segments ("cycleroute_segments").....	30
8	Migrating from Free Shape / GeoPackage Files.....	30
8.1	Associated Area Layer.....	30
8.2	Additional Layers.....	31
8.3	Additional Feature Classes.....	31
8.4	Additional Fields.....	33

## 1 Preface

The OpenStreetMap project has collected an enormous amount of free spatial data and the database is growing every day. Many people want to use this data for their own GIS projects but have been hindered by the use of a non-standard data format in the OSM project. This document describes a mapping from OSM data formats to the usual GIS formats to make the OSM data accessible to more people.

The mapping from OSM data to other formats is not an exact science. OSM rules on how to map certain features are often not well defined and there is no mandatory quality control. This openness allows a lot of flexibility and is part of the reason why OSM has been able to collect so much data in such a short time frame, but it makes using the data more difficult. When using or exporting the data, many decisions have to be made on how to extract the different features into something usable for the task at hand.

The mapping described in this document is in no way the only mapping possible, in fact there is an infinite number of possible mappings. In this document we have specified a general-use mapping of the basic features like roads, waterways, different land use types, and points of interest. Other uses might need specialized mappings, but they are out of the scope of this document.

The format described in this document is used by Geofabrik to create shapefiles and other formats for its clients.



## 2 Introduction

### 2.1 Versions

This is no static document. New versions of this document are likely to appear from time to time. If the definition of layers or features is changed significantly, the layers will get new version identifiers.

Layer names will use version numbers without the embedded ': So version 0.1 of this document will use the suffix "01", version 2.7 will use "27" (minor versions above 9 are not allowed).

### 2.2 Map datum

All coordinates are unprojected WGS84 (EPSG:4326).

### 2.3 Character encoding

All strings are encoded in UTF-8.

### 2.4 Attribute names

All attribute names are lower case. In shape files, attribute names are limited to 9 characters, hence abbreviations are used for longer attributes. The abbreviated names are provided in this document where applicable (e.g. "shp: whchair" for a column called "wheelchair").

### 2.5 Common attributes

Most tables/shape files will have the following columns/attributes:

Attribute	PostGIS Type	Description
osm_id	BIGINT / VARCHAR (12)	OSM ID taken from the ID of this feature (node_id, way_id, or relation_id) in the OSM database. In case several features in the OSM database are joined into one feature, this is one of the IDs. This ID is not necessarily unique because one OSM object can result in several geometry objects. Also note that when doing shape file exports, this will be exported as a VARCHAR type since shape files don't support long integers.
lastchange	TIMESTAMP WITHOUT TIME ZONE	Last change of this feature. Comes from the OSM timestamp attribute. Reflects changes in the attributes of a feature; changes in the geometry will not necessarily change this.
code	SMALLINT (2 Bytes)	4 digit code (between 1000 and 9999) defining the feature class. The first one or two digits define the layer, the last two or three digits the class inside a layer.
fclass	VARCHAR(40)	Class name of this feature. This does not add any information that is not already in the "code" field but it is more readable.
name	VARCHAR(100)	Name of this feature, like a street or place name. If the name in OSM contains obviously wrong data such as "fixme" or "none", it will be empty. See note on international names below.

The code and the combination of layer name+fclass always contains the same information.



## 2.6 International Names

In OpenStreetMap, every feature can have many names. The standard name is always the name used on the ground, locally, usually the name as it would be written on a sign. There may be any number of additional names in different languages, plus also a specific “international name”. In cases where the local script is not latin script, the international name will often contain a transcribed version of the standard name.

By default, Geofabrik shape files will always carry the standard name, the one that is given in OSM's “name” tag. At the client's request, or if we export shape files for the whole world, we will not use a “name” column, but instead have two columns called “loc\_name” (which will contain the standard name) and “int\_name” (which will contain the international name, or the English name, or if neither of them are given will be the same as the loc\_name).

## 2.7 Layers

In OSM there are no layers in the traditional GIS sense. All features are in one big coherent database.

For the purpose of the mapping described in this document, the features stored in the OSM database are extracted into different layers depending on their type.

All layers defined in this document use the “osm\_” prefix for their names.

To allow for future changes of this document, the document version number is embedded in the layer names. So the “roads” layer in version 1.0 is called “osm\_roads\_v10” in file names, WMS layers etc.

## 2.8 Points and Areas

The availability of high-resolution aerial imagery has led to many POI features being recorded as areas (building or site outlines), not points, in OpenStreetMap. You will, for example, often find a restaurant or hotel drawn as an area. This makes processing difficult because you have to cater for both types of POIs even if you are not interested in areas.

The Geofabrik shape files alleviate this problem by converting any area feature to a point, and adding it to the appropriate point layer. All point layers which are marked as having an “associated area layer” work this way. They will have an extra “geomtype” column that has one of the three values “N” (=the feature stems from a node, or point, in OSM), “W” (=the feature stems from a way, a simple area, in OSM), or “R” (=the feature stems from a multipolygon relation in OSM). For these layers, there will be an extra layer with the name suffix “\_a” containing the proper polygon.

So in case you are not interested in areas, you can just ignore the “geomtype” column in the point layer, and process everything normally. The automatic conversion of areas to points will make sure that you do not lose any information. If, however, you would like to process



areas wherever they are available, then you should disregard the auto-converted objects of types “W” and “R” from the point layer, and additionally use the polygons from the area layer.

Note that sometimes features are contained twice in the OSM database, once as point and once as area. If this happens, they will turn up twice in these layers.

## 2.9 Spillover Shape Files

For the shape file output format, whenever a layer becomes larger than 2 GB, additional shape files will be created. A shape file named “osm\_pois\_v08\_1.shp” will spill over into shape files named “osm\_pois\_v08\_2.shp”, “osm\_pois\_v08\_3.shp” and so on.

Even if there is only a single shape file, it will always carry the postfix “\_1” in the name.

This is not the case for other output formats, like GeoPackage.

## 3 Layer Overview

The following layers are available:

Geometry	Code	Layer	AAL*	page	Description
Point					
	10xx	places	yes	6	Cities, towns, suburbs, villages,...
	2xxx	pois	yes	7	Points of Interest, therein:
	20xx				Public facilities like government offices, post office, police, ...
	21xx				Hospitals, pharmacies, ...
	22xx				Culture, Leisure, ...
	23xx				Restaurants, pubs, cafes, ...
	24xx				Hotel, motels, and other places to stay the night
	25xx				Supermarkets, bakeries, ...
	26xx				Banks and atms
	27xx				Tourist information, sights, museums, ...
	29xx				Miscellaneous points of interest
	3xxx	pofw	yes	14	Places of worship such as churches, mosques, graveyards, ...
	41xx	natural	yes	15	Natural features
	52xx	traffic	yes	16	Traffic related
	56xx	transport	yes	18	Parking lots, petrol (gas) stations, train stations, bus stops, ...
	64xx	power	yes	19	Power generators, substations, ...
Line					
	11xx	boundaries		19	Borders between countries ...
	51xx	roads		20	Roads, tracks, paths, ...
	61xx	railway		21	Railway, subways, light rail, trams, ...
	66xx	powerlines		23	Power lines
	67xx	runways		23	Runways and taxiways at airports
	81xx	waterways		22	Rivers, canals, streams, ...



Geometry Code	Layer	AAL*	page	Description
83xx	coastline		23	Coastline
53xx, 54xx, 55xx, 56xx, 62xx, 63xx, 64xx, 65xx	nonop		23	Roads and railways planned, under construction, or disused
90xx	routes		29	Signposted routes for hiking, cycling, running
91xx	cycleroute_ segments		30	Road segments tagged as cycle routes without special route names/reference numbers
<b>Polygon</b>				
12xx	adminareas		25	Administrative areas (countries, states, counties, ...)
15xx	buildings		26	Building outlines
72xx	landuse		26	Forests, residential areas, industrial areas,...
73xx	protected_areas		27	Areas where nature/environment is protected by stricter rules than usual (e.g. nature reserves, national parks, low-emission zones)
82xx	water		28	Lakes, wetlands, ...

\* AAL = associated area layer.

## 4 Point Features

### 4.1 Places ("places")

Location for cities, towns, etc. Typically somewhere in the centre of the town.

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
population	INTEGER	Number of people living in this place	population=*

Note that for many places the population is not available and will be set to 0. For islands the population is always 0.

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
1000			
1001	city	As defined by national/state/provincial government. Often over 100,000 people	place=city (but see 1005)
1002	town	As defined by national/state/provincial government. Generally smaller than a city, between 10,000 and 100,000 people	place=town
1003	village	As defined by national/state/provincial government. Generally smaller than a town, below 10,000 people	place=village
1004	hamlet	As defined by national/state/provincial government. Generally smaller than a village, just a few houses	place=hamlet



code	fclass	Description	OSM Tags
1005	national_capital	A national capital	place=city with either of (a) is_capital=country, (b) admin_level=2, (c) capital=yes and no admin_level set
1010	suburb	Named area of town or city	place=suburb
1020	island	Identifies an island	place=island
1030	farm	Named farm	place=farm
1031	dwelling	Isolated dwelling (1 or 2 houses, smaller than hamlet)	place=isolated_dwelling
1040	region	A region label (used in some areas only)	place=region
1041	county	A county label (used in some areas only)	place=county
1050	locality	Other kind of named place	place=locality
1099	named_place	see below.	area=yes, name=*

The “associated area layer” for this layer uses code 1099 for objects tagged “area=yes” but not having any tags that would put them into any of the other layers. Objects in this layer have either not been categorized in OSM at all, or they have been categorized but not in a way that fits any of the Geofabrik layers.

## 4.2 Points of Interest (“pois”)

This layer has an associated area layer (see section 2.8).

This layer has following additional attributes. Due to the user-contributed nature of the OpenStreetMap project, many points of interest lack additional information like wheelchair accessibility or opening hours even if these columns are present in the layer definition.

Attribute	PostGIS Type	Description	OSM Tags
wheelchair (shp: whchair)	VARCHAR(1)	Wheelchair accessibility (“T” = true, “F” = false, “L” = limited, “U” = unknown)	wheelchair=*
opening_hours (shp: opening_h)	VARCHAR(1)	Opening hours. Values usually follow the specification at <a href="https://wiki.openstreetmap.org/wiki/Key:opening_hours">https://wiki.openstreetmap.org/wiki/Key:opening_hours</a>	opening_hours=*
cuisine	VARCHAR(30)	Cuisine of a restaurant, fast food etc. This field can contain any value, sometimes multiple values separated by semicolon. Most frequent values: pizza, coffee_shop, burger, regional, chinese, italian	cuisine=*
memorial	VARCHAR(25)	Type of memorial. Most frequent values are documented on the OpenStreetMap wiki at <a href="https://wiki.openstreetmap.org/wiki/Key:%3Amemorial">https://wiki.openstreetmap.org/wiki/Key:%3Amemorial</a>	memorial=*
sport	VARCHAR(30)	The type of sport exercised on a pitch or in a sports_centre.	sport=*

The following feature classes exist in this layer:

code	group	fclass	Description	OSM Tags
20xx	public			
2001		police	A police post or station.	amenity=police
2002		fire_station	A fire station.	amenity=fire_station



code	group	fclass	Description	OSM Tags
2004		post_box	A post box (for letters).	amenity=post_box
2005		post_office	A post office.	amenity=post_office
2006		telephone	A public telephone booth.	amenity=telephone
2007		library	A library.	amenity=library
2008		town_hall	A town hall.	amenity=townhall
2009		courthouse	A court house.	amenity=courthouse
2010		prison	A prison.	amenity=prison
2011		embassy	An embassy.	amenity=embassy or office=diplomatic with diplomatic=embassy
2012		community_centre	A public facility which is mostly used by local associations for events and festivities.	amenity=community_centre
2013		nursing_home	A home for disabled or elderly persons who need permanent care.	amenity=nursing_home
2014		arts_centre	A venue at which a variety of arts are performed or conducted, and may well be involved with the creation of those works, and run occasional courses.	amenity=arts_centre
2015		graveyard	A graveyard.	amenity=grave_yard or landuse=cemetery
2016		marketplace	A place where markets are held.	amenity=marketplace
2017		consulate	A consulate.	office=diplomatic with diplomatic=consulate
2030		recycling	A place (usually a container) where you can drop waste for recycling.	amenity=recycling with none of the specifics below
2031		recycling_glass	A place for recycling glass.	... recycling:glass=yes or recycling:glass_bottles=yes
2032		recycling_paper	A place for recycling paper.	... recycling:paper=yes
2033		recycling_clothes	A place for recycling clothes.	... recycling:clothes=yes
2034		recycling_metal	A place for recycling metal.	... recycling:scrap_metal=yes
208x			Education	
2081		university	A university.	amenity=university
2082		school	A school.	amenity=school
2083		kindergarten	A kindergarten (nursery).	amenity=kindergarten
2084		college	A college.	amenity=college
2099		public_building	An unspecified public building.	amenity=public_building
21xx	health			
2101		pharmacy	A pharmacy.	amenity=pharmacy
2110		hospital	A hospital.	amenity=hospital
2111		clinic	A medical centre that does not admit inpatients.	amenity=clinic
2120		doctors	A medical practice.	amenity=doctors
2121		dentist	A dentist's practice.	amenity=dentist
2129		veterinary	A veterinary (animal doctor)	amenity=veterinary
22xx	leisure			



code	group	fclass	Description	OSM Tags
2201		theatre	A theatre.	amenity=theatre
2202		nightclub	A night club, or disco.	amenity=nightclub
2203		cinema	A cinema.	amenity=cinema
2204		park	A park.	leisure=park
2205		playground	A playground for children.	leisure=playground
2206		dog_park	An area where dogs are allowed to run free without a leash.	leisure=dog_park
225x, 226x			Sports	
2251		sports_centre	A facility where sports take place within an enclosed area.	leisure=sports_centre
2252		pitch	An area set aside for a specific sport.	leisure=pitch
2253		swimming_pool	A swimming pool or water park.	amenity=swimming_pool, leisure=swimming_pool, sport=swimming, leisure=water_park All without access=private/customers
2254		tennis_court	A tennis court.	sport=tennis
2255		golf_course	A golf course.	leisure=golf_course
2256		stadium	A stadium. The area of the stadium may contain one or several pitches.	leisure=stadium
2257		ice_rink	An ice rink.	leisure=ice_rink
2258		track	A track for running, cycling and other non-motorised racing such as horses, greyhounds.	leisure=track
2259		fitness_centre	Fitness centre, health club or gym with exercise machines, fitness classes or both, for exercise.	leisure=fitness_centre
2260		bleachers	Raised, tiered rows of benches found at spectator events.	leisure=bleachers
2261		sports_hall	A sufficiently large single room that is suitable for practising sports indoors and does not have a "centre" character.	leisure=sports_hall
2262		horse_riding	A facility where people practise horse riding, usually in their spare time, e.g. a riding centre.	leisure=horse_riding
2263		fishing	A public or private place for fishing.	leisure=fishing (except access=private)
2264		sauna	A room or building designed as a place to experience dry or wet heat sessions.	leisure=sauna (except access=private)
2265		beach_resort	A managed beach, including within the boundary any associated facilities.	leisure=beach_resort
2266		dance	A dance venue or dance hall.	leisure=dance
2267		miniature_golf	A place where you can play miniature golf.	leisure=miniature_golf
23xx	catering		Catering services	
2301		restaurant	A normal restaurant.	amenity=restaurant



code	group	fclass	Description	OSM Tags
2302		fast_food	A fast-food restaurant.	amenity=fast_food
2303		cafe	A cafe.	amenity=cafe
2304		pub	A pub.	amenity=pub
		bar	A bar. The difference between a pub and a bar is not clear but pubs tend to offer food while bars do not.	amenity=bar
2305				
		food_court	A common seating area with various fast-food vendors.	amenity=food_court
2306				
		biergarten	An open-air area where food and drinks are served.	amenity=biergarten
2307				
24xx	accommodation		(indoor)	
2401		hotel	A hotel.	tourism=hotel
2402		motel	A motel.	tourism=motel
2403		bed_and_breakfast	A facility offering bed and breakfast.	tourism=bed_and_breakfast
2404		guesthouse	A guesthouse. The difference between hotel, bed and breakfast, and guest houses is not a strict one and OSM tends to use whatever the facility calls itself.	tourism=guest_house
2405		hostel	A hostel (offering cheap accommodation, often bunk beds in dormitories).	tourism=hostel
2406		chalet	A detached cottage, usually self-catering.	tourism=chalet
2407		apartment	A furnished apartment used as vacation rental.	tourism=apartment
2408		resort	A place used for relaxation or recreation, attracting visitors for vacations, tourism and/or going swimming in a pool and/or a nearby body of water.	leisure=resort
2420			(outdoor)	
2421		shelter	All sorts of small shelters to protect against bad weather conditions.	amenity=shelter
2422		camp_site	A camp site or camping ground.	tourism=camp_site
2423		alpine_hut	An alpine hut is a building typically situated in mountains providing shelter and often food and beverages to visitors.	tourism=alpine_hut
2424		caravan_site	A place where people with caravans or motorhomes can stay overnight or longer.	tourism=caravan_site
2425		wilderness_hut	A remote building, typically unserviced, providing temporary shelter and sleeping accommodation	tourism=wilderness_hut
25xx	shopping			
2501		supermarket	A supermarket.	shop=supermarket
2502		bakery	A bakery.	shop=bakery



code	group	fclass	Description	OSM Tags
2503		kiosk	A very small shop usually selling cigarettes, newspapers, sweets, snacks and beverages.	shop=kiosk
2504		mall	A shopping mall.	shop=mall
2505		department_store	A department store.	shop=department_store
2506		farm_shop	A farm shop selling self-grown vegetables, fruits, meat, sausage and other food.	shop=farm
2507		confectionery	A confectionery shop.	shop=confectionery
2508		deli	A deli shop.	shop=deli
2509		seafood	A seafood shop.	shop=seafood
2510		general	A general store, offering a broad range of products on a small area. Exists usually in rural and remote areas.	shop=general
2511		convenience	A convenience store is a small shop selling a subset of items you might find at a supermarket.	shop=convenience
2512		clothes	A clothes or fashion store.	shop=clothes
2513		florist	A store stelling flowers.	shop=florist
2514		chemist	A shop selling articles of personal hygiene, cosmetics, and household cleaning products.	shop=chemist
2515		bookshop	A book shop.	shop=books
2516		butcher	A butcher.	shop=butcher
2517		shoe_shop	A shoe shop.	shop=shoes
2518		beverages	A place where you can buy alcoholic and non-alcoholic beverages.	shop=alcohol, shop=beverages, shop=wine
2519		optician	A place where you can buy glasses.	shop=optician
2520		jeweller	A jewelry shop.	shop=jewelry
2521		gift_shop	A gift shop.	shop=gift
2522		sports_shop	A shop selling sports equipment.	shop=sports
2523		stationery	A shop selling stationery for private and office use.	shop=stationery
2524		outdoor_shop	A shop selling outdoor equipment.	shop=outdoor
2525		mobile_phone_shop	A shop for mobile phones.	shop=mobile_phone
2526		toy_shop	A toy store.	shop=toys
2527		newsagent	A shop selling mainly newspapers and magazines.	shop=newsagent
2528		greengrocer	A shop selling fruit and vegetables.	shop=greengrocer
2529		beauty_shop	A shop that provides personal beauty services like a nail salon or tanning salon.	shop=beauty
2530		video_shop	A place where you can buy films.	shop=video
2531		electronics_shop	A shop selling electronics (TVs, computes, phones etc.)	shop=electronics
2532		variety_store	A variety store or price-point retailer. Also known as discount store.	shop=variety_store



code	group	fclass	Description	OSM Tags
2533		copyshop	A copyshop.	shop=copyshop
2534		funeral_directors	A funeral directors' company.	shop=funeral_directors
2535		tailor	A tailor.	shop=tailor
2536		interior_decoration	A shop selling interior decoration.	shop=interior_decoration
2537		ticket	A shop selling tickets (public transport, theatre etc.).	shop=ticket
2538		houseware	A houseware shop.	shop=houseware
2539		boutique	A boutique.	shop=boutique
2540		cosmetics	A cosmetics shop.	shop=cosmetics
2541		car_dealership	A car dealership.	shop=car
2542		bicycle_shop	A bicycle shop.	shop=bicycle
2543		doityourself	A do-it-yourself shop where you can buy tools and building materials.	shop=doityourself and shop=hardware
2544		furniture_shop	A furniture store.	shop=furniture
2546		computer_shop	A computer shop.	shop=computer
2547		garden_centre	A place selling plants and gardening goods.	shop=garden_centre
2548		car_parts	A shop selling car parts.	shop=car_parts
2549		tyres	A shop selling car tyres.	shop=tyres
2550		trade	A shop selling goods in large numbers for commercial customers: agricultural supplies, building material, catering supplies, pipe installation material, tiles, wood, windows	shop=trade
2551		pastry	A pastry shop.	shop=pastry
2552		art	An art shop.	shop=art
2561		hairstylist	A hair salon.	shop=hairstylist
2562		car_repair	A car garage.	shop=car_repair
2563		car_rental	A place where you can rent a car.	amenity=car_rental
2564		car_wash	A car wash.	amenity=car_wash
2565		car_sharing	A car sharing station.	amenity=car_sharing
2566		bicycle_rental	A place where you can rent bicycles.	amenity=bicycle_rental
2567		travel_agent	A travel agency.	shop=travel_agency
2568		laundry	A place where you can wash clothes or have them cleaned.	shop=laundry, shop=dry_cleaning
2569		motorcycle	A motorcycle shop.	shop=motorcycle
2570		pet	A shop selling pets and pet accessories.	shop=pet
2571		photo	A shop selling cameras and/or making photographs.	shop=photo
2572		massage	A massage shop.	shop=massage
2590		vending_machine	An unspecified vending machine.	amenity=vending_machine with none of the specifics below
2591		vending_cigarette	A cigarette vending machine.	vending=cigarettes
2592		vending_parking	A vending machine for parking tickets.	vending=parking_tickets



code	group	fclass	Description	OSM Tags
2593		vending_drinks	A vending machine for drinks.	amenity=vending_machine with vending=drinks
2594		vending_tickets	A vending machine for public transport tickets.	amenity=vending_machine with vending=public_transport_tickets
2600	money			
2601		bank	A bank.	amenity=bank
2602		atm	A machine that lets you withdraw cash from your bank account.	amenity=atm
2700	tourism		information	
2701		tourist_info	Something that provides information to tourists; may or many not be manned.	tourism=information with none of the specifics below
2704		tourist_map	A map displayed to inform tourists.	tourism_information and information=map
2705		tourist_board	A board with explanations aimed at tourists.	and information=board
2706		tourist_guidepost	A guide post.	and information=guidepost
			destinations	
2721		attraction	A tourist attraction.	tourism=attraction
2722		museum	A museum.	tourism=museum
2723		monument	A monument.	historic=monument
2724		memorial	A memorial.	historic=memorial
2725		art	A permanent work of art.	tourism=artwork
2731		castle	A castle.	historic=castle
2732		ruins	Ruins of historic significance.	historic=ruins
2733		archaeological	An excavation site.	historic=archaeological_site
2734		wayside_cross	A wayside cross, not necessarily old.	historic=wayside_criss
2735		wayside_shrine	A wayside shrine.	historic=wayside_shrine
2736		battlefield	A historic battlefield.	historic=battlefield
2737		fort	A fort.	historic=fort
2741		picnic_site	A picnic site.	tourism=picnic_site
2742		viewpoint	A viewpoint.	tourism=viewpoint
2743		zoo	A zoo.	tourism=zoo
2744		theme_park	A theme park.	tourism=theme_park
2900	miscpoi			
2901		toilet	Public toilets.	amenity=toilets
2902		bench	A public bench.	amenity=bench
2903		drinking_water	A tap or other source of drinking water.	amenity=drinking_water
2904		fountain	A fountain for cultural, decorative, or recreational purposes.	amenity=fountain
2905		hunting_stand	A hunting stand.	amenity=hunting_stand
2906		waste_basket	A waste basket.	amenity=waste_basket
2907		camera_surveillance	A surveillance camera.	man_made=surveillance
2908		picnic_table	A picnic table.	leisure=picnic_table



code	group	fclass	Description	OSM Tags
2909		outdoor_seating	A seating area, usually for the consumption of food and drink from neighbouring cafes and restaurants.	leisure=outdoor_seating
2910		firepit	A fire ring or fire pit, often at a campsite or picnic site.	leisure=firepit
2921		emergency_phone	An emergency telephone.	amenity=emergency_phone, emergency=phone
2922		fire_hydrant	A fire hydrant.	amenity=fire_hydrant, emergency=fire_hydrant
2923		emergency_access	An emergency access point (signposted place in e.g. woods the location of which is known to emergency services).	highway=emergency_access _point
2950		tower	A tower of some kind.	man_made=tower and none of the specifics below
2951		tower_comms	A communications tower.	man_made=tower and tower:type=communication
2952		water_tower	A water tower.	man_made=water_tower
2953		tower_observation	An observation tower.	man_made=tower and tower:type=observation
2954		windmill	A windmill.	man_made=windmill
2955		lighthouse	A lighthouse.	man_made=lighthouse
2961		wastewater_plant	A wastewater treatment plant.	man_made=wastewater_plant
2962		water_well	A facility to access underground aquifers.	man_made=water_well
2963		water_mill	A mill driven by water. Often historic.	man_made=watermill
2964		water_works	A place where drinking water is processed.	man_made=water_works

### 4.3 Places of Worship ("pofw")

This layer has following additional attributes. Due to the user-contributed nature of the OpenStreetMap project, many points of interest lack additional information like wheelchair accessibility or opening hours even if these columns are present in the layer definition.

Attribute	PostGIS Type	Description	OSM Tags
wheelchair (shp: whchair)	VARCHAR(1)	Wheelchair accessibility ("T" = true, "F" = false, "L" = wheelchair=limited, "U" = unknown)	
opening_hours (shp: opening_h)	VARCHAR(1)	Opening hours. Values usually follow the specification at <a href="https://wiki.openstreetmap.org/wiki/Key:opening_hours">https://wiki.openstreetmap.org/wiki/Key:opening_hours</a>	opening_hours=*

This layer has an associated area layer (see section 2.8).

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
3000		Places of worship	
3100	christian	A christian place of worship	amenity=place_of_worship +



code	fclass	Description	OSM Tags
		(usually a church) without one of the denominations below.	religion=christian
3101	christian_anglican	A christian place of worship where the denomination is known. (Note to German users: "protestant" is "evangelisch" in German; "evangelical" is "evangelikal" in German.)	+ denomination=anglican
3102	christian_catholic		+ denomination=catholic
3103	christian_evangelical		+ denomination=evangelical
3104	christian_lutheran		+ denomination=lutheran
3105	christian_methodist		+ denomination=methodist
3106	christian_orthodox		+ denomination=orthodox
3107	christian_protestant		+ denomination=protestant
3108	christian_baptist		+ denomination=baptist
3109	christian_mormon		+ denomination=mormon
3200	jewish	A jewish place of worship (usually a synagogue).	amenity=place_of_worship + religion=jewish
3300	muslim	A muslim place of worhsip, (usually a mosque) without one of the denominations below.	amenity=place_of_worship + religion=muslim
3301	muslim_sunni	A Sunni muslim place of worship.	+ denomination=sunni
3302	muslim_shia	A Shia muslim place of worship.	+ denomination=shia
3400	buddhist	A Buddhist place of worship.	amenity=place_of_worship + religion=buddhist
3500	hindu	A Hindu place of worship.	amenity=place_of_worship + religion=hindu
3600	taoist	A Taoist place of worship.	amenity=place_of_worship + religion=taoist
3700	shintoist	A Shintoist place of worship.	amenity=place_of_worship + religion=shintoist
3800	sikh	A Sikh place of worship.	amenity=place_of_worship + religion=sikh

#### 4.4 Natural Features ("natural")

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
elevation	INTEGER	Height of the feature above mean sea level, in metres.	elevation=*

Note that for many features the elevation is not available and will be set to 0.

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
4101	spring	A spring, possibly source of a stream.	natural=spring
4103	glacier	A glacier.	natural=glacier
4111	peak	A mountain peak.	natural=peak
4112	cliff	A cliff.	natural=cliff
4113	volcano	A volcano.	natural=volcano
4114	sinkhole	A natural depression or hole in the surface topography.	natural=sinkhole
4115	hot_spring	A spring of geothermally heated groundwater	natural=hot_spring
4116	rock	A notable rock or group of rocks attached to the underlying bedrock	natural=rock



code	fclass	Description	OSM Tags
4121	tree	A tree.	natural=tree
4131	mine	A mine.	natural=mine
4132	cave_entrance	A cave entrance.	natural=cave_entrance
4141	beach	A beach. (Note that beaches are only rarely mapped as point features.)	natural=beach
4142	grassland	Area where the vegetation is dominated by grasses and other herbaceous (non-woody) plants. Not used for agricultural purposes.	natural=grassland
4143	bare_rocks	Area of land with (almost) no plants, dominated by bare rocks.	natural=bare_rock
4144	sand	Area of land with (almost) no plants, covered by sand.	natural=sand
4145	scree	Unconsolidated angular stones formed by rockfall and weathering from adjacent rock faces.	natural=scree
4146	fell	Habitat above tree line covered with grass, dwarf shrubs and mosses.	natural=fell

## 4.5 Traffic Related (“traffic”)

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
iata	VARCHAR(10)	IATA code	iata=*
icao	VARCHAR(10)	ICAO code	icao=*
wheelchair (shp: whchair)	VARCHAR(1)	Wheelchair accessibility (“T” = true, “F” = false, “L” = limited, “U” = unknown)	wheelchair=*

This layer has an associated area layer (see section 2.8). The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
5201	traffic_signals	Traffic lights.	highway=traffic_signals
5202	mini_roundabout	A small roundabout without physical structure, usually just painted onto the road surface.	highway=mini_roundabout
5203	stop	A stop sign.	highway=stop
5204	pedestrian_crossing	A place where the street is crossed by pedestrians (or cyclists).	highway=crossing
5205	ford	A place where the road runs through a river or stream.	highway=ford
5206	motorway_junction	The place where a slipway enters or leaves a motorway.	highway= motorway_junction
5207	turning_circle	An area at the end of a street where vehicles can turn.	highway=turning_circle
5208	speed_camera	A camera that photographs speeding vehicles.	highway=speed_camera
5209	street_lamp	A lamp illuminating the road.	highway=street_lamp
5236	railway_crossing	A crossing of a road or path and a railway track.	railway=level_crossing, railway=crossing
5210	barrier	Barriers	barrier=* (unless one of the cases below)
5211	barrier_gate	A gate.	barrier=gate
5212	barrier_bollard	A bollard intended as a barrier against wide vehicles.	barrier=bollard



code	fclass	Description	OSM Tags
5213	barrier_lift_gate	A gate that can be lifted or swung away.	barrier=lift_gate, barrier=swing_gate.
5214	barrier_stile	A stile that allows climbing over a wall or fence.	barrier=stile, highway=stile
5215	barrier_cycle	A barrier that keeps out cyclists.	barrier=cycle_barrier
5216	barrier_fence	A fence.	barrier=fence
5217	barrier_toll	A place where you have to pay toll to continue.	barrier=toll_booth
5218	barrier_block	A solid concrete block or rock impeding traffic.	barrier=block
5219	barrier_kissing_gate	A kissing gate.	barrier=kissing_gate
5220	barrier_cattle_grid	A cattle grid.	barrier=cattle_grid
5221	barrier_kerb	A kerb.	barrier=kerb
5222	barrier_entrance	An entrance into a building or site.	barrier=entrance
5223	barrier_chain	A chain across a road.	barrier=chain
5224	barrier_jersey	A jersey barrier (heavy prefabricated blocks, usually made of concrete).	barrier=jersey_barrier
5225	barrier_turnstile	A turnstile.	barrier=turnstile
5226	barrier_debris	Debris blocking a road.	barrier=debris
5227	barrier_wall	A wall across a road	barrier=wall (on nodes only)
5228	barrier_height	A height restrictor	barrier=height_restrictor
5229	calming	Traffic calming	traffic_calming=*
5230	barrier_coupure	An opening in a (flood)wall or dyke for a road or railway. Closable in case of flooding.	barrier=coupure
<b>Fuel and Parking</b>			
5250	fuel	A gas station.	amenity=fuel
5251	service	A service area, usually along motorways.	highway=services
5260	parking	A car park of unknown type.	amenity=parking with none of the specifics below and without access=private/customers
5261	parking_surface	A surface car park.	amenity=parking and... ... parking=surface and without access=private/customers
5262	parking_multistorey	A multi storey car park.	... parking=multi-storey and without access=private/customers
5263	parking_underground	An underground car park.	... parking=underground and without access=private/customers
5264	parking_street	On-street parking.	... parking=lane/street_side and without access=private/customers
5270	parking_bicycle	A place to park your bicycle.	amenity=bicycle_parking and without access=private/customers
5271	bicycle_repair_station	A bicycle repair station.	amenity=bicycle_repair_station
<b>Water Traffic</b>			
5301	slipway	A slipway.	leisure=slipway
5302	marina	A marina.	leisure=marina
5303	pier	A pier.	man_made=pier



code	fclass	Description	OSM Tags
5311	dam	A dam.	waterway=dam
5321	waterfall	A waterfall.	waterway=waterfall
5331	lock_gate	A lock gate.	waterway=lock_gate
5332	weir	A barrier built across a river or stream.	waterway=weir

*Note: Most of the 53xx type objects do sometimes appear as linear features in OSM as well but those are not yet available in the shape files.*

## 4.6 Transport Infrastructure (“transport”)

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
ref	VARCHAR(8)	Reference number (only common for motorway_junction (5206) but may also exist for other feature classes of this layer)	ref=*
calming	VARCHAR(25)	Type of traffic calming (value of the OSM key traffic_calming). This field has only a value for feature class 5229.	traffic_calming=*

This layer has an associated area layer (see section 2.8).

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
5601	railway_station	A larger railway station of mainline rail services.	railway=station
5602	railway_halt	A smaller, local railway station, or subway station.	railway=halt, or public_transport=stop_position + train=yes
5603	tram_stop	A tram stop.	railway=tram_stop, or public_transport=stop_position + tram=yes
5621	bus_stop	A bus stop.	highway=bus_stop, or public_transport=stop_position + bus=yes
5622	bus_station	A large bus station with multiple platforms.	amenity=bus_station
5641	taxi_rank	A taxi rank.	amenity=taxi
565x		Air Traffic	
5651	airport	A large airport.	amenity=airport or aeroway=aerodrome unless type=airstrip
5652	airfield	A small airport or airfield.	aeroway=airfield, military=airfield, aeroway=aeroway with type=airstrip
5655	helipad	A place for landing helicopters.	aeroway=helipad
5656	apron	A apron (area where aircraft are parked)	aeroway=apron
5657	terminal	A terminal of an airport	aeroway=terminal
566x		Water Traffic	
5661	ferry_terminal	A ferry terminal.	amenity=ferry_terminal
567x		Other Traffic	



code	fclass	Description	OSM Tags
5671	aerialway_station	A station where cable cars or lifts alight.	aerialway=station

## 4.7 Power Generation and Distribution (“power”)

This layer has an associated area layer (see section 2.8).

The following feature classes exist in this layer:

code	layer	fclass	Description	OSM Tags
6401	power	tower	A towers supporting power lines.	power=tower
6204	power	pole	A pole supporting power lines.	power=pole
6410	power	station	A power station where the power source is not specified.	power=generator with none of the specifics below
6411	power	station_nuclear	A nuclear power station.	power=generator with generator:source=nuclear
6412	power	station_solar	A solar power station.	with generator:source=solar or power_source=photovoltaic
6413	power	station_fossil	A power station burning fossil fuels.	with generator:source=gas or coal
6414	power	station_water	A hydroelectric power station.	with generator:source=hydro or power_source=hydro
6415	power	station_wind	A wind turbine, or park thereof.	with generator:source=wind or power_source=wind
6422	power	substation	A power substations or relay station.	power=station power=sub_station
6423	power	transformer	A power transformer within a station or substation.	power=transformer

## 5 Line Features

### 5.1 Boundaries (“boundaries”)

OSM currently uses up to 11 different levels for administrative boundaries. Boundaries currently don't have a name attribute.

The following feature classes exist in this layer:

code	layer	fclass	Description	OSM Tags
1100	boundary			boundary=administrative
1101	boundary	admin_level1		+ admin_level=1
1102	boundary	national	National border	+ admin_level=2
1103	boundary	admin_level3		+ admin_level=3
1104	boundary	admin_level4	Usually a border of the first level below national; NUTS-2 (Germany: Land, France: région, UK: England/ Scotland/Wales...).	+ admin_level=4
1105	boundary	admin_level5		+ admin_level=5
1106	boundary	admin_level6	Usually a border of the second level below national; NUTS-3 (Germany: Kreis, France: département, UK: county...).	+ admin_level=6
1107	boundary	admin_level7		+ admin_level=7
1108	boundary	admin_level8	Usually a city or borough boundary.	+ admin_level=8



code	layer	fclass	Description	OSM Tags
1109	boundary	admin_level9		+ admin_level=9
1110	boundary	admin_level10		+ admin_level=10
1111	boundary	admin_level11		+ admin_level=11

The exact meaning of the admin\_levels 1 to 11 varies between countries and is documented in detail on the OpenStreetMap Wiki: [http://wiki.openstreetmap.org/wiki/Admin\\_level](http://wiki.openstreetmap.org/wiki/Admin_level). Other levels depend on the country they are in.

See section 6.1 for polygonal administrative areas. It is recommended to use the line features if all you need is borders drawn, but use polygons if you need to test feature for lying inside or outside of an area.

## 5.2 Roads and Paths (“roads”)

All kinds of roads from motorways to gravel tracks as well as cycleways, footpaths, etc.

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
ref	VARCHAR(20)	Reference number of this road ('A 5', 'L 605', ...)	ref=*
oneway	VARCHAR(1)	Is this a oneway road? (“F” means that only driving in direction of the linestring is allowed. “T” means that only driving against the direction of the linestring is allowed. “B” (default value) means that traffic is permitted in both directions.	oneway=*
maxspeed	SMALLINT	Max allowed speed in km/h	maxspeed=*
layer	SMALLINT	Relative layering of roads (-5, ..., 0, ..., 5)	layer=*
bridge	VARCHAR(1)	Is this road on a bridge? (“T” = true, “F” = false)	bridge=*
tunnel	VARCHAR(1)	Is this road in a tunnel? (“T” = true, “F” = false)	tunnel=*
surface	VARCHAR(20)	The road surface, if specified. Common values are “asphalt”, “unpaved”, “paved”, “ground”, “gravel”, “concrete”, “paving_stones”, “dirt”, and “grass” but others are possible.	surface=*

Roads of type 5111 (motorway) and 5112 (trunk) are always oneway.

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
511x		<b>Major roads</b>	
5111	motorway	Motorway/freeway	highway=motorway
5112	trunk	Important roads, typically divided	highway=trunk
5113	primary	Primary roads, typically national.	highway=primary
5114	secondary	Secondary roads, typically regional.	highway=secondary
5115	tertiary	Tertiary roads, typically local.	highway=tertiary
512x		<b>Minor Roads</b>	
5121	unclassified	Smaller local roads	highway=unclassified
5122	residential	Roads in residential areas	highway=residential
5123	living_street	Streets where pedestrians have priority over cars	highway=living_street



code	fclass	Description	OSM Tags
5124	pedestrian	Pedestrian only streets	highway=pedestrian
5125	busway	Dedicated roads for bus, usually closed for any mode of transport except public transport.	highway=busway
513x	<b>Highway links (sliproads/ramps)</b>		
5131	motorway_link	Roads that connect from one road to another of the same of lower category.	highway=motorway_link
5132	trunk_link		highway=trunk_link
5133	primary_link		highway=primary_link
5134	secondary_link		highway=secondary_link
5135	tertiary_link		highway=tertiary_link
514x	<b>Very small roads</b>		
5141	service	Service roads for access to buildings, parking lots, etc.	highway=service
5142	track	For agricultural use, in forests, etc. Often gravel roads.	highway=track without tracktype specification
5143	track_grade1	Tracks can be assigned a “tracktype” from 1 (asphalt or heavily compacted) to 5 (hardly visible). A detailed description is here: <a href="http://wiki.openstreetmap.org/wiki/Tracktype">http://wiki.openstreetmap.org/wiki/Tracktype</a>	... with tracktype=grade1
5144	track_grade2		... with tracktype=grade2
5145	track_grade3		... with tracktype=grade3
5146	track_grade4		... with tracktype=grade4
5147	track_grade5		... with tracktype=grade5
515x	<b>Paths unsuitable for cars</b>		
5151	bridleway	Paths for horse riding	highway=bridleway or highway=path with horse=designated
5152	cycleway	Paths for cycling	highway=cycleway or highway=path with cycle=designated
5153	footway	Footpaths	highway=footway or highway=path with foot=designated
5154	path	Unspecified paths	highway=path without cycle/foot/horse=designated
5155	steps	Flights of steps on footpaths	highway=steps
516x	<b>Ferries</b>		
5160	ferry	Ferry routes	route=ferry
<b>Unknown</b>			
5199	unknown	Unknown type of road or path	highway=road

### 5.3 Railways, Subways, Trams, Lifts, and Cable Cars (“railways”)

Railways do not have a name attribute. Instead, they have the following additional attributes:



Attribute	PostGIS Type	Description	OSM Tags
layer	SMALLINT	Relative layering of railways/roads (-5, ..., 0, ..., 5)	layer=*
bridge	VARCHAR(1)	Is this road on a bridge? (“T” = true, “F” = false)	bridge=*
tunnel	VARCHAR(1)	Is this road in a tunnel? (“T” = true, “F” = false)	tunnel=*
electrified (shp: electr)	VARCHAR(25)	Electrification (“no”, “contact_line”, “rail”) if available. See <a href="https://wiki.openstreetmap.org/wiki/Key:electrified">https://wiki.openstreetmap.org/wiki/Key:electrified</a> for details.	electrification=*
service	VARCHAR(20)	Type of minor track if it is any (empty for major tracks): “siding”, “crossover”, “yard”, “spur”. See <a href="https://wiki.openstreetmap.org/wiki/Key:service#Railways">https://wiki.openstreetmap.org/wiki/Key:service#Railways</a> for details.	service=*

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
6101	rail	Regular railway tracks.	railway=rail (unless traction=* also set)
6102	light_rail	Light railway tracks, often commuter railways.	railway=light_rail
6103	subway	Underground railway tracks.	railway=subway
6104	tram	Tram tracks (may be incident with roads).	railway=tram
6105	monorail	A monorail track.	railway=monorail
6106	narrow_gauge	A narrow gauge railway track.	railway=narrow_gauge
6107	miniature	A miniature railway track.	railway=miniature
6108	funicular	A funicular, or cable railway usually on a steep incline.	railway=funicular, or railway=rail with traction=funicular
6109	rack	A rack railway	railway=rack, or railway=rail with traction=rack or railway=rail with rack=yes
6111	drag_lift	An overhead tow-line for skiers.	aerialway=drag_lift
6112	chair_lift	An open chairlift run.	aerialway=chair_lift or high_speed_chair_lift
6113	cable_car	A cabin cable car run.	aerialway=cable_car
6114	gondola	An aerialway where the cabins go around in a circle,	aerialway=gondola
6115	goods	An aerialway for the transport of goods.	aerialway=goods
6119	other_lift	Another type of lift.	aerialway=one of platter, t-bar, j-bar, magic_carpet, zip_line, rope_tow, or mixed_lift

## 5.4 Waterways (“waterways”)

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
width	SMALLINT	Width of the waterway in metres.	width=*

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
8101	river	A large river.	waterway=river



code	fclass	Description	OSM Tags
8102	stream	A smaller river or stream.	waterway=stream
8103	canal	An artificial waterway for ships or boats.	waterway=canal
8104	drain	An artificial waterway for sewage and storm water.	waterway=drain
8105	ditch	A small ditch to drain land.	waterway=ditch

*Note that in OSM larger rivers are often available as polygon geometries and line geometries; the line geometry will then run through the middle of the river in the direction of the water flow.*

## 5.5 Coastline (“coastline”)

Only the code 8300 is used. Coastlines don't have a name attribute.

## 5.6 Power lines (“powerlines”)

Power lines don't have a name attribute.

code	fclass	Description	OSM Tags
6600	line	A regular power line.	power=line
6601	minor_line	A smaller power line usually supported by poles, not masts.	power=minor_line
6611	cable	An underground or submarine power cable.	power=cable
6612	minor_cable	A smaller underground or submarine power cable.	power=minor_cable

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
operator	VARCHAR(30)	Operator/owner of infrastructure	operator=*

*Note: Some power lines in OpenStreetMap are modelled as relations and are not yet included in this layer. Contact Geofabrik for details.*

## 5.7 Runways and taxiways (“runways”)

This layer contains runways and taxiways. There is a layer with an “\_a” suffix which contains those which are mapped as areas at OpenStreetMap and there is a layer without that suffix which contains those which are mapped as lines.

code	fclass	Description	OSM Tags
6701	runway	Runway at an airport	aeroway=runway
6702	taxiway	Taxiway at an airport	aeroway=taxiway

## 5.8 Infrastructure disused, planned, under construction (“nonop”)

This layer contains roads and railways which are disused, planned, under construction or abandoned. These elements have been placed in a separate layer because they are not usable for traffic; yet for some applications they may be relevant.

This layer uses the codes from the “roads” and “railways” layers incremented by integral



multiples of 100. The names of the feature classes are appended by the suffixes “\_proposed”, “\_construction”, “\_disused” and “\_abandoned” depending on their operational status.

code range	fclasses	Description	OSM Tags
53xx	motorway_proposed/ trunk_proposed/...	Proposed roads.	highway=proposed with proposed=motorway/trunk/...
54xx	motorway_construction/ trunk_construction/...	Roads under construction.	highway=construction with construction=motorway/ trunk/...
55xx	motorway_disused/ trunk_disused	Disused roads. Road still exists but is closed and not used any more. Paving may be covered by vegetation.	highway=disused with disused=motorway/trunk/...
56xx	motorway_abandoned/ trunk_abandoned	Paving has been removed but it is still clearly visible that there was a road.	highway=abandoned with abandoned=motorway/ trunk/...
62xx	rail_proposed/ light_rail_proposed/...	Proposed railway tracks.	railway=proposed with proposed=rail/light_rail/... or railway=proposed with proposed:railway=rail/ light_rail/...
6200	other_rail_proposed	Proposed railway tracks but exact railway type (railway, light rail, tram, subway ...) not given.	railway=proposed without both proposed=* a and proposed:railway=*
63xx	rail_construction/ light_rail_construction/...	Railway tracks under construction.	railway=construction with construction=rail/light_rail/ ... or railway= construction with construction: railway=rail/light_rail/...
6300	other_rail_construction	Railway tracks under construction but exact railway type (railway, light rail, tram, subway ...) not given.	railway=construction without both construction=* a and construction:railway=*
64xx	rail_disused/ light_rail_disused/...	Disused railway tracks.	railway=disused with disused=rail/light_rail/... or railway=disused with disused:railway=rail/ light_rail/...
6400	other_rail_disused	Proposed railway tracks but exact railway type (railway, light rail, tram, subway ...) not given.	railway=disused without both disused=* a and proposed:railway=*
65xx	rail_abandoned/ light_rail_abandoned/...	Abandoned railway tracks, i.e. rails and sleepers have been removed but ballast is still in place.	railway=abandoned with abandoned=rail/light_rail/... or railway= abandoned with abandoned:railway=rail/light _rail/...
6500	other_rail_abandoned	Abandoned railway tracks but exact railway type (railway, light rail, tram, subway ...) not given. Rails and sleepers have been removed but ballast is still in place.	railway=construction without both construction=* a and construction:railway=*

Additional attributes:



Attribute	PostGIS Type	Description	OSM Tags
ref	VARCHAR(20)	Reference number of this road ('A 5', 'L 605', ...); unset for railways.	ref=*
layer	SMALLINT	Relative layering of roads (-5, ..., 0, ..., 5)	layer=*
bridge	VARCHAR(1)	Is this road/railway on a bridge? ("T" = true, "F" = false)	bridge=*
tunnel	VARCHAR(1)	Is this road/railway in a tunnel? ("T" = true, "F" = false)	tunnel=*

## 5.9 Barrier-type linear features ("barriers")

This layer contains natural or man-made barrier lines, like fences, hedges, or walls.

code	fclass	Description	OSM Tags
5501	fence	A fence.	barrier=fence, wood_fence, wire_fence
5511	hedge	A hedge.	barrier=hedge
5512	tree_row	A row of trees.	barrier=tree_row
5513	guard_rail	A guard rail.	barrier=guard_rail
5514	ditch	A ditch (not necessarily filled with water). Ditches tagged as waterways are part of the water_lines layer.	barrier=ditch
5515	avalanche_protection	An avalanche protector.	barrier= avalanche_protection
5521	wall	A wall.	barrier=wall
5522	retaining_wall	A retaining wall (left side is upper side).	barrier=retaining_wall
5523	embankment	An embankment (left side is upper side).	barrier=embankment
5524	city_wall	A historic city wall.	barrier=city_wall
5525	jersey	A jersey barrier.	barrier=jersey_barrier
5531	dyke	A dyke.	man_made=dyke

## 6 Polygon Features

Polygon features are extracted from simple polygons and from multipolygons in OSM.

### 6.1 Administrative Areas ("adminareas")

This layer is similar to the "boundaries" layer but it contains polygons built from boundary lines. This layer does have a name attribute.

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
postalcode	VARCHAR(10)	Postal code for this administrative area. Postal codes are only available for a few administrative areas, they are not necessarily unique.	postal_code=*

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
1200			boundary=administrative



code	fclass	Description	OSM Tags
1201	admin_level1		+ admin_level=1
1202	national	National border	+ admin_level=2
1203	admin_level3		+ admin_level=3
1204	admin_level4	Usually a border of the first level below national; NUTS-2 (Germany: Land, France: région, UK: England/Scotland/Wales...).	+ admin_level=4
1205	admin_level5		+ admin_level=5
1206	admin_level6	Usually a border of the second level below national; NUTS-3 (Germany: Kreis, France: département, UK: county...).	+ admin_level=6
1207	admin_level7		+ admin_level=7
1208	admin_level8	Usually a city or borough boundary.	+ admin_level=8
1209	admin_level9		+ admin_level=9
1210	admin_level10		+ admin_level=10
1211	admin_level11		+ admin_level=11

*Note that due to editing errors introduced by OpenStreetMap contributors and also due to lack of data in some areas, there is no guarantee that these areas are complete; there may always be missing bits. Contact Geofabrik if you are interested in a redacted data set.*

The exact meaning of the admin\_levels 1 to 11 varies between countries and is documented in detail on the OpenStreetMap Wiki: [http://wiki.openstreetmap.org/wiki/Admin\\_level](http://wiki.openstreetmap.org/wiki/Admin_level)

## 6.2 Building outlines (“buildings”)

Buildings don't have a name attribute.

Additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
type	VARCHAR(20)	The type of building, if specified in OSM; otherwise empty.	building=(anything other than yes)
height	SMALLINT	Height of the building.	height=* (building:height=* if height=* is not set)
levels	SMALLINT	Number of floors	building:levels=*

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
1500	building	Building outlines	building=*

## 6.3 Land use and land cover (“landuse”)

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
7201	forest	A forest or woodland.	landuse=forest, natural=wood



code	fclass	Description	OSM Tags
7202	park	A park.	leisure=park, leisure=common
7203	residential	A residential area.	landuse=residential
7204	industrial	An industrial area.	landuse=industrial
7206	cemetery	A cemetery or graveyard.	landuse=cemetery
7207	allotments	An area with small private gardens.	landuse=allotments
7208	meadow	A meadow, possibly used for grazing cattle.	landuse=meadow
7209	commercial	A commercial area.	landuse=commercial
7210	nature_reserve	A nature reserve.	leisure=nature_reserve
7211	recreation_ground	An open green space for general recreation.	leisure=recreation_ground or landuse_recreation_ground
7212	retail	An area mainly used by shops.	landuse=retail
7213	military	Military landuse, usually no access for civilians.	landuse=military
7214	quarry	A quarry.	landuse=quarry
7215	orchard	An area used for growing fruit-bearing trees.	landuse=orchard
7216	vineyard	An area used for growing grapes.	landuse=vineyard
7217	scrub	An area where scrub grows.	landuse=scrub
7218	grass	An area where grass grows.	landuse=grass
7219	heath	Heath areas.	natural=heath
7220	national_park	A national park.	boundary=national_park
7221	basin	A basin.	landuse=basin
7222	village_green	A green area in the centre of a village.	landuse=village_green
7223	plant_nursery	Areas where plant nurseries exist.	landuse=plant_nursery
7224	brownfield	Land where old buildings have been demolished and cleared.	landuse=brownfield
7225	greenfield	Land scheduled for new development where there have been no buildings before.	landuse=greenfield
7226	construction	A construction site.	landuse=construction
7227	railway	Area used for railway operations. Not all land used for railway is covered by this type.	landuse=railway
7228	farmland	Agricultural land (areas where crops are grown)	landuse=farmland
7229	farmyard	Area of land with farm buildings and the shrubbery/trees around them.	landuse=farmyard
7230	greenhouses	used for growing plants in greenhouses.	landuse=greenhouse_ horticulture
7231	religious	An area used for religious purposes.	landuse=religious
7232	garages	An area occupied by multiple private garage buildings.	landuse=garages
7233	landfill	A site for permanent or long term storage of waste materials.	landuse=landfill
7234	education	Area of land predominantly used for educational purposes/facilities.	landuse=education

## 6.4 Protected areas (“protected\_areas”)

This layer contains areas where nature, wildlife or environment is protected by stricter rules than usual. The feature classes follow the ICUN (International Union for Conservation of Nature) categories for protected areas. See <https://wiki.openstreetmap.org/wiki/>



[Key:protect\\_class](#) for details.

This layer has following additional attributes:

Attribute	PostGIS Type	Description	OSM Tags
icun	VARCHAR(10)	ICUN category, may contain multiple values separated by semicolon	protect_class=*
protection_title (shp: title)	VARCHAR(100)	An official national predicate or grade, the formal title or type of protection	protection_title=*

This layer contains the following feature classes:

code	fclass	Description	OSM Tags
7300	other_nature_reserve	Nature reserves without detailed specification about protection. If an area has an ICUN category assigned in OpenStreetMap, it will have any of the features classes below.	leisure=nature_reserve (fallback only)
7301	icun_1	Strict Nature Reserve (ICUN 1a) or Wilderness Area (ICUN 1b)	boundary=protected_area + protect_class=1/1a/1b
7302	national_park	National Park (ICUN 2)	boundary=national_park or boundary=protected_area + protect_class=2
7303	icun_3	Natural Monument or Feature (ICUN 3)	boundary=protected_area + protect_class=3
7304	icun_4	Habitat/Species Management Area (ICUN 4)	boundary=protected_area + protect_class=4
7305	icun_5	Protected Landscape/Seascape (ICUN 5)	boundary=protected_area + protect_class=5
7306	icun_6	Protected area with sustainable use of natural resources (ICUN 6)	boundary=protected_area + protect_class=6
7307	icun_7	Smaller areas where some natural features are protected (ICUN 7)	boundary=protected_area + protect_class=7
7308	icun_8	Area protected by international treaties, e.g. Natura 2000, EU Birds Directive, Alpine Convention, Ramsar Agreement	boundary=protected_area + protect_class=97/98 or ramsar=yes
7310	low_emission_zone	Low-emission zones	boundary= low_emission_zone

## 6.5 Bodies of Water (“water”)

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
8200	water	Unspecified bodies of water. Typically lakes, but can also be larger rivers, harbours, etc.	natural=water + water! =river/reservoir
8201	reservoir	Artificial lakes, typically above a dam.	landuse=reservoir, natural=water + water=reservoir
8202	river	Polygons for larger rivers.	waterway=riverbank, natural=water + water=river
8203	dock	Dock (to repair ships, don't confuse it with the American term “dock”)	waterway=dock



code	fclass	Description	
8211	glacier	Glaciers	natural=glacier
8220	wetland	Wetland of unspecified type, or of a type not in the list below	natural=wetland
8221	wetland_marsh	Marsh. Periodically saturated, flooded, or ponded wetland with vegetation adapted to wet soil.	natural=wetland + wetland=marsh
8222	wetland_reedbed	Wetland dominated by reeds.	natural=wetland + wetland=reedbed
8223	wetland_saltmarsh	Coastal marshes, exposed to tidal inundation with sea water, therefore characterized by herbaceous plants with special adaptations to saline environments.	natural=wetland + wetland=saltmarsh
8224	wetland_bog	Bogs, peat-filled depressions receiving water and nutrients from rainfall.	natural=wetland + wetland=bog
8225	wetland_fen	Fens, groundwater-fed peatforming wetlands.	natural=wetland + wetland=fen
8226	wetland_swamp	Swamp wetland, areas of waterlogged forest, with dense vegetation	natural=wetland + wetland=swamp
8227	wetland_mangrove	Mangrove wetlands.	natural=wetland + wetland=mangrove
8228	wetland_wet_meadow	Meadows which are saturated with water through much of the year.	natural=wetland + wetland=wet_meadow
8229	wetland_tidalflat	Tidal flats, tidally inundated areas of bare mud, sand or similar sediments.	natural=wetland + wetland=tidalflat

*Note that in OSM larger rivers are often available as polygon geometries and line geometries; the line geometry will then run through the middle of the river in the direction of the water flow.*

## 6.6 Landmass and Oceans

The Geofabrik shape files do not come with landmass or ocean polygons built from coastline data. However, there are free shapefile downloads provided here which are regularly extracted from OSM:

<https://osmdata.openstreetmap.de/>

You'll find both ocean polygons and land mass polygons there, as well several generalized data sets.

## 7 Routes

Routes are extracted from OpenStreetMap relation objects which have the tag type=route.

### 7.1 Routes ("routes")

Additional attributes:



Attribute	PostGIS Type	Description	OSM Tags
ref	VARCHAR(100)	Reference number/code of this route.	ref=*
name	VARCHAR(100)	Name of the route. This might be sometimes more a description than a real name.	name=*
operator	VARCHAR(100)	Operator of this route.	operator=*
network	VARCHAR(20)	Network hierarchy. Common values: <ul style="list-style-type: none"> <li>nwn: national hiking route</li> <li>rwn: regional hiking route</li> <li>lwn: local hiking route</li> <li>ncn: national cycle route</li> <li>rcn: regional cycle route</li> <li>lcn: local cycle route</li> </ul>	network=*
osmc_symbol (shp: osmc_symb)	VARCHAR(100)	machine-readable description of the hiking path symbol, full documentation see <a href="https://wiki.openstreetmap.org/wiki/Key:osmc:symbol">https://wiki.openstreetmap.org/wiki/Key:osmc:symbol</a>	osmc:symbol=*

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
9001	bicycle	cycle route	route=bicycle
9002	mtb	route for mountain bikes	route=mtb
9003	hiking	hiking route	route=hiking
9004	horse	riding route	route=horse
9005	nordic_walking	nordic walking route	route=nordic_walking
9006	running	running route	route=running

## 7.2 Cycle Route Segments ("cyclerroute\_segments")

Sometimes cycle routes do either have no proper name or reference number or they are just mapped as an additional attribute to the roads they use. No long route multilinestrings can be derived in these cases as they are available in the routes layer. Instead, these road segments are included in the cycle route segment.

These segments can overlap with mapped route relations from the routes layer. It is recommended to use the content in this layer as a fallback for the routes layer.

The following feature classes exist in this layer:

code	fclass	Description	OSM Tags
9102	regional_cycle_network	regional cycle route (usually county level)	rcn=yes
9102	local_cycle_network	local cycle route (usually municipal level)	lcn=yes

## 8 Migrating from Free Shape / GeoPackage Files

There are some differences between the free shape or GeoPackage files provided by Geofabrik at [download.geofabrik.de](http://download.geofabrik.de) and the layers described in this document.

### 8.1 Associated Area Layer

If a feature class exists both as area and as points in OpenStreetMap, point layers of paid



shape files will contain a centroid point of the area. The geomtype field of this objects is set to “W” (way) or “R” (relation). If you are using both the polygon and the point layers of the commercial shape files, you will want to exclude all objects of a point layer with

## 8.2 Additional Layers

The following layers are part of the commercial shape files but not contained in the free data:

Geometry	Code	Layer	Description
Point	64xx	power	Power generators, substations, ...
Line	11xx	boundaries	Borders between countries ...
	55xx	barriers	Natural or man-made barrier lines like fence, hedges or walls
	66xx	powerlines	Power lines
	67xx	runways	Runways and taxiways at airports
	83xx	coastline	Coastline
	53xx, 54xx, nonop 55xx, 56xx, 62xx, 63xx, 64xx, 65xx		Roads and railways planned, under construction, or disused
	91xx	cycleroute_segments	Segments of cycle roads which are not available in the routes layer (codes 90xx).
Polygon	12xx	adminareas	Administrative areas (countries, states, counties, ...)
	MultiLineString	90xx	routes

## 8.3 Additional Feature Classes

The following table shows all feature classes which part of the commercial shape files but not available in the free shape files. (Feature classes of layers from section 8.2 are not listed here.)

code(s)	layer	fclass(es)
1005	places	national_capital
565x	transport	airport, airfield, helipad, terminal
5671	transport	aerialway_station
2524	pois	outdoor_shop
2525	pois	mobile_phone_shop
2529	pois	beauty_shop
2530	pois	video_shop
2260	pois	bleachers
2262	pois	horse_riding
2263	pois	fishing
2264	pois	sauna



code(s)	layer	fclass(es)
2265	pois	beach_resort
2266	pois	dance
2407	pois	apartment
2408	pois	resort
2506	pois	farm
2507	pois	confectionery
2508	pois	deli
2509	pois	seafood
2531	pois	electronics
2532	pois	variety_store
2533	pois	copyshop
2534	pois	funeral_directors
2535	pois	tailor
2536	pois	interior_decoration
2537	pois	ticket
2538	pois	houseware
2539	pois	boutique
2540	pois	cosmetics
2541	pois	car_dealership
2544	pois	furniture_shop
2548	pois	car_parts
2549	pois	tyres
2550	pois	trade
2551	pois	pastry
2552	pois	art
2569	pois	motorcycle
2570	pois	pet
2571	pois	photo
2572	pois	massage
2908	pois	picnic_table
2909	pois	outdoor_seating
2910	pois	firepit
2921	pois	emergency_phone
2922	pois	fire_hydrant
2923	pois	emergency_access_point
4103	natural	glacier
4114	natural	sinkhole
4115	natural	hot_spring
4116	natural	rock
4142	natural	grassland
4143	natural	bare_rocks
4144	natural	sand
4145	natural	scree
4146	natural	fell
4121	natural	tree
5208	traffic	speed_camera
5209	traffic	street_lamp



code(s)	layer	fclass(es)
521x, 522x	traffic	barriers on roads and pathes, e.g. lift gates and bollards; traffic calming
5657	transport	terminal
7221	landuse	basin
7222	landuse	village_green
7223	landuse	plant_nursery
7224	landuse	brownfield
7225	landuse	greenfield
7226	landuse	construction
7227	landuse	railway
7230	landuse	greenhouses
7231	landuse	religious
7232	landuse	garages
7234	landuse	education
8105	waterways	ditch
8211	water	glacier
611x	railways	drag_lift, chair_lift, cable_car, gondola, goods, other_lift

## 8.4 Additional Fields

The following fields are only available in the commercial shape files and not in the free data:

Layer	Attribute	PostGIS Type	Description	OSM Tags
<i>all layers</i>	lastchange	TIMESTAMP WITHOUT TIME ZONE	Last change of this feature. Comes from the OSM last_changed attribute. Reflects changes in the attributes of a feature; changes in the geometry will not necessarily change this.	
buildings	height	SMALLINT	Height of the building.	height=*
buildings	levels	SMALLINT	Number of floors	building:levels=*
natural	elevation	INTEGER	Height of the feature above mean sea level, in metres.	elevation=*
pofw	opening_hours	VARCHAR(70)	Opening hours	opening_hours=*
pofw	wheelchair	VARCHAR(1)	Wheelchair accessibility	wheelchair=*
pois	opening_hours	VARCHAR(70)	Opening hours	opening_hours=*
pois	wheelchair	VARCHAR(1)	Wheelchair accessibility	wheelchair=*
pois	cuisine	VARCHAR(30)	Cuisine of a restaurant, fast food etc. This field can contain any value, sometimes multiple values separated by semicolon. Most frequent values: pizza, coffee_shop, burger, regional, chinese, italien	cuisine=*
pois	memorial	VARCHAR(25)	Type of memorial. Most frequent values are documented on the OpenStreetMap wiki at <a href="https://wiki.openstreetmap.org/wiki/Key%3Amemorial">https://wiki.openstreetmap.org/wiki/Key%3Amemorial</a>	memorial=*
pois	sport	VARCHAR(30)	The sports exercised on a pitch or in a sports_centre.	sport=*
roads	maxspeed	SMALLINT	Max allowed speed in km/h	maxspeed=*
roads	surface	VARCHAR(20)	The surface of the road	surface=*



Layer	Attribute	PostGIS Type	Description	OSM Tags
railways	electrified	VARCHAR (25)	Electrification	electrified=*
railways	service	VARCHAR (20)	Type of minor track if it is any	service=*
traffic	ref	VARCHAR (8)	Reference number (motorway junctions)	ref=*
traffic	opening_hours	VARCHAR(70)	Opening hours	opening_hours=*
transport	iata	VARCHAR(10)	IATA code	iata=*
transport	icao	VARCHAR(10)	ICAO code	icao=*
transport	wheelchair	VARCHAR(1)	Wheelchair accessibility	wheelchair=*

## Version History and Copyright

Version	Created At	Changes
0.5	2010-02-20	Add bridge and tunnel attributes to road shapes Add layer, bridge, and tunnel attributes to railway line shape Add operator attribute to powerline shape Add note about splitting road layer for large extracts
0.6	2011-09-16	Add many new POI types, and section about area POIs. Add new traffic layer and new “non-operational” layer. Rename “railwaystations” layer to “traffic” and include information about air and sea traffic. Add many definitions. Added section on spillover shape files.
0.6.1	2012-02-04	Added “barriers” layer; added vineyards, orchards, military landuse and quarries to landuse layer; added rack railways to railway layer.
0.6.2	2012-07-30	Added section on “international names”; updated section on landmass and oceans.
0.6.3	2014-01-30	Added a few more aerialway values to the railways layer; added natural parks.
0.6.4	2014-03-12	Added a column “type” in the buildings layer.
0.6.5	2014-11-01	Added new “named_place” in places layer, fix a few missing codes
0.6.6	2015-07-06	Fix openstreetmapdata.com reference
0.6.7	2015-09-22	Add feature code 1005 in places layer
0.6.8	2016-01-28	Add X=proposed in nonop layer
0.7.0	2016-06-01	Add aeroways and routes layer, change codes of powerlines layer, redesign nonop layer (new codes and feature classes), use Navteq's nomenclature for “oneway” column, add levels and height column to buildings layer.
0.7.1	2016-10-25	Add ferries, add ref field to traffic layer.
0.7.2	2017-01-24	Use amenity=taxi instead of amenity=taxi_rank. See taginfo.osm.org for details. Add waterway=dock.
0.7.3	2017-03-02	Swap codes 5205 and 5208 (ford and speed camera). They were swapped in the produced shape files. Add Buddhist, Taoist, Shintoist, Sikh and Hindu places of worship.
0.7.4	2017-10-06	Add feature classes basin, village_green, brownfield, greenfield, plant_nursery, construction and railway to the landuse layer. Split up feature class “farm” into “farmyard” and “farmland”.
0.7.5	2019-01-17	Interprete OSM tags natural=water + water=river and natural=water + water=reservoir for feature classes “river” and “reservoir” in addition to waterway=riverbank and landuse=reservoir.
0.7.6	2019-03-27	Added “surface” column to roads.
0.7.7	2019-05-13	Added “cyclerroute_segments” layer. Add list of fields which are available in the paid shape files only.



0.7.8	2019-11-06	Correct overview table in section 3: Change 26xx to 27xx, add banks and atms as 26xx.
0.7.9	2020-01-13	Add fields service and electr to railways layer.
0.7.10	2021-07-08	Only add objects with amenity=place_of_worship to pofw layer. Add recycling:glass_bottles=yes to code 2031 (recycling_glass).
0.7.11	2021-08-12	Add code 2510 (general) for general stores to poi layer.
0.7.12	2022-03-31	Add code 5124 (busway) to roads layer.
0.8.0	2026-01-15	<p>Split 8221 (wetland) into individual feature classes for different types of wetlands.</p> <p>Remove swimming pools, car parking and bicycle parking tagged with access=private or access=permissive. Rename feature class market_place to marketplace to match OSM tag value (retaining code 2016).</p> <p>Merge 5230–5235 (traffic calming) into code 5229, add separate column “calming” to “traffic” layer instead.</p> <p>Correct feature class name of code 5220 “cattle_grid” to “barrier_cattle_grid” to match documentation.</p> <p>Add barrier=swing_gate to code 5213 (barrier_lift_gate) of “traffic” layer.</p> <p>Add codes 5221 to 5228 for frequent barrier types (barrier_kerb, barrier_entrance, barrier_chain, barrier_jersey, barrier_turnstile, barrier_debris, barrier_wall, barrier_height) to “traffic” layer.</p> <p>Add code 5271 (bicycle_repair_station) to “traffic” layer. Fix code 5261 (parking_surface), add 5264 (parking_street)</p> <p>Add new codes 5513–5515 (guard_rail, ditch, avalanche_protection), 5522–5525 (retaining_wall, embankment, city_wall, jersey) to “barriers” layer (lines).</p> <p>Add new code 5657 (terminal) to “transport” layer.</p> <p>Add new fields “iata”, “icao” and “whchair” to transport layer.</p> <p>Add following leisure and shop codes to “poi” layer: 2111 (clinic), 2259 (fitness_centre), 2260 (bleachers), 2261 (sports_hall), 2262 (horse_riding), 2263 (fishing), 2264 (sauna), 2265 (beach_resort), 2266 (dance), 2267 (miniature_golf), 2407 (apartment), 2408 (resort), 2424 (wilderness_hut), 2506 (farm_shop), 2507 (confectionery), 2508 (deli), 2509 (seafood), 2531 (electronics), 2532 (variety_store), 2533 (copyshop), 2534 (funeral_directors), 2535 (tailor), 2536 (interior_decoration), 2537 (ticket), 2538 (houseware), 2539 (boutique), 2540 (cosmetics), 2548 (car_parts), 2549 (tyres), 2550 (trade), 2551 (pastry), 2552 (art), 2569 (motorcycle), 2570 (pet), 2571 (photo), 2572 (massage), 2593 (vending_drinks), 2594 (vending_tickets), 2908 (picnic_table), 2909 (outdoor_seating), 2910 (firepit).</p> <p>Add OSM objects with shop=wine to code 2518 (beverages).</p> <p>Add new fields “whchair”, “opening_h”, “cuisine” und “memorial” to “poi” layer.</p> <p>Add new fields “whchair” and “opening_h” to “pofw” layer.</p> <p>Add code 8105 (ditch) to waterway layer. Update description of code 8104 (drain) to match its current usage in OSM.</p> <p>Add code 2017 (consulate) to POIs and restrict 2011 to just embassy.</p> <p>Add codes 7230 (greenhouses), 7231 (religious), 7232 (garages), 7233 (landfill), 7234 (education) to “landuse” layer.</p> <p>Add codes 4114 (sinkhole), 4115 (hot_spring), 4116 (rock), 4142 (grassland), 4143 (bare_rocks), 4144 (sand), 4145 (scree), 4146 (fell) to “natural” layer.</p> <p>Split code 5204 (crossing) into 5204 (pedestrian_crossing) and 5236 (railway_crossing).</p> <p>Add new layer “protected_areas”. Move code 7220 (national_park) from “landuse” layer as 7302 to that layer. Replace code 7210 (nature_reserve) on “landuse” layer by codes 7300 to 7308 on “protected_areas” layer. Add new code 7310 (low_emission_zone).</p> <p>Do not truncate attribute names for formats other than shape file.</p> <p>Various cosmetic changes to documentation.</p>



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