

Free shapefiles - 2022-04-29

Frederik Ramm <<u>frederik.ramm@geofabrik.de</u>>

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Version	Created At	Changes
intial	2016-08-12	Revamped free shape files now based on the commercially produced "0.7.0" shapes by Geofabrik.
2	2016-12-07	Updates in section 7 reflecting some changes made to the commercial shapes.
3	2017-01-24	Use amenity=taxi instead of amenity=taxi_rank. See taginfo.osm.org for details. Add waterway=dock.
4	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.
5	2017-10-06	Updates in chapter "Differences to Commercial "0.7" Shape Files". Split up feature class "farm" into "farmyard" and "farmland".
6	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.
7	2019-05-21	Updates in chapter "Differences to Commercial "0.7" Shape Files".
8	2020-01-13	Updates in chapter "Differences to Commercial "0.7" Shape Files".
9	2021-07-08	Only add objects with amenity=place_of_worship to pofw layer. Add recycling:glass_bottles=yes to code 2031 (recycling_glass).
10	2021-08-12	Add code 2510 (general) for general stores to poi layer.
11	2022-03-31	Add code 5125 (busway).
12	2022-04-29	Add 2111 (clinic).

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1 Preface

The OpenStreetMap (OSM) project (www.openstreetmap.org) 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 which are offered for free download from download.geofabrik.de.

2 Introduction

2.1 Versions

The commercially available shape files from Geofabrik carry a version identifier in each layer name. The free shapes contain the name "free" in each layer name to distinguish them.

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 and are less than 11 characters long so that they are not truncated in shapefiles.

2.5 Common attributes

Attribute	PostGIS Type	Description
id	VARCHAR (4 Bytes)	Id of this feature. Unique in this layer.
osm_id	VARCHAR (10)	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.
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 better 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.

The code and the combination of layer name and 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. If you need additional name (e.g. international name or names in a specific language), that can be arranged in the paid shape service – please contact us.

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.

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. Features drawn as area in OpenStreetMap will be written to the layer with an _a suffix. Features drawn als line/point in OpenStreetMap will be written to the layer without an _a suffix.

2.9 Spillover Shape Files

When a certain layer becomes too large for one shape file (shape files are limited to 2 GB in size), it will automatically spill over into additional shape files. A shape file named "osm_pois_v07_1.shp" will have spillover shape files names "osm_pois_v07_2.shp", "osm_pois_v07_3.shp" and so on.

3 Feature Catalogue - Overview

Geometry	Code	Layer	page	Description
Point				
	10xx	places	5	Cities, towns, suburbs, villages,
	2xxx	pois	6	Points of Interest, therein:

The following layers are available:

Geometry	y Code	e Layer	page	Description	
	20xx			Public facilities such as 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	11	Places of worship such as churches, mosques,	
	41xx	natural	12	Natural features	
	52xx	traffic	12	Traffic related	
	50xx	transport	13	Parking lots, petrol (gas) stations,	
Line					
	51xx	roads	14	Roads, tracks, paths,	
	61xx	railway	16	Railway, subways, light rail, trams,	
	81xx	waterways	17	Rivers, canals, streams,	
Polygon					
	15xx	buildings	17	Building outlines	
	72xx	landuse	17	Forests, residential areas, industrial areas,	
	82xx	water	18	Lakes,	

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	place			
1001	place	city	As defined by national/state/provincial government. Often over 100,000 people	place=city (but see 1005)
1002	place	town	As defined by national/state/provincial government. Generally smaller than a city, between 10,000 and 100,000 people	place=town

code		fclass	Description	OSM Tags
1003	place	village	As defined by national/state/provincial government. Generally smaller than a town, below 10,000 people	place=village
1004	place	hamlet	As defined by national/state/provincial government. Generally smaller than a village, just a few houses	place=hamlet
1005	place	national_capital	A national capital	place=city with (a) is_capital=country or (b) admin_level=2 or (c) capital=yes and no admin_level set
1010	place	suburb	Named area of town or city	place=suburb
1020	place	island	Identifies an island	place=island
1030	place	farm	Named farm	place=farm
1031	place	dwelling	Isolated dwelling (1 or 2 houses, smaller than hamlet)	place=isolated_dwelling
1040	place	region	A region label (used in some areas only)	place=region
1041	place	county	A county label (used in some areas only)	place=county
1050	place	locality	Other kind of named place	place=locality

4.2 Points of Interest

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

code	layer	fclass	Description	OSM Tags
20xx	public			
2001		police	A police post or station.	amenity=police
2002		fire_station	A fire station.	amenity=fire_station
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 or consulate.	amenity=embassy or office=diplomatic
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

The following feature classes exist in this layer:



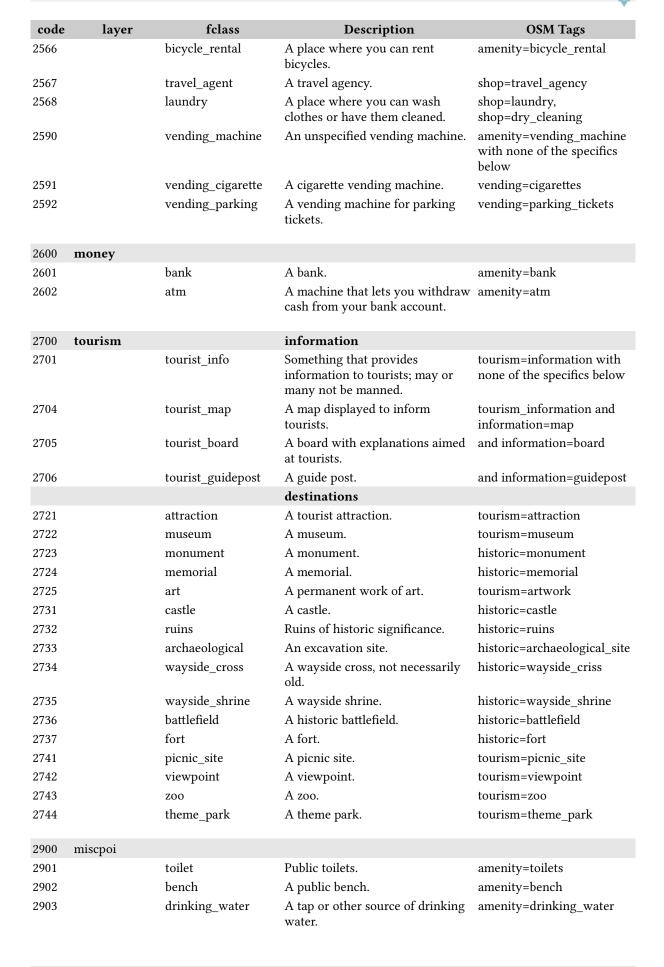
code	layer	fclass	Description	OSM Tags
2016	.,	market_place	A place where markets are held.	amenity=marketplace
2030		recycling	A place (usually a container) where you can drop waste for recycling.	amenity=recycling with none of the specifics below
2031		recycling_glass	A place for recycling glass.	recycling:glass=yes 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			
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			Sports	
2251		sports_centre	A facility where a range of sports activities can be pursued.	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
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



code	layer	fclass	Description	OSM Tags
23xx	catering		Catering services	
2301		restaurant	A normal restaurant.	amenity=restaurant
2302		fast_food	A fast-food restaurant.	amenity=fast_food
2303		cafe	A cafe.	amenity=cafe
2304		pub	A pub.	amenity=pub
2305		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
2306		food_court	A common seating area with various fast-food vendors.	amenity=food_court
		biergarten	An open-air area where food and drinks are served.	amenity=biergarten
2307				
24xx	accommo- dation		(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 accomodation, often bunk beds in dormitories).	tourism=hostel
2406		chalet	A detached cottage, usually self- catering.	tourism=chalet
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
25xx	shopping			
2501		supermarket	A supermarket.	shop=supermarket
2502		bakery	A bakery.	shop=bakery
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

code	layer	fclass	Description	OSM Tags
2510	layer	general	A general store, offering a broad	shop=general
2510		general	range of products on a small area. Exists usually in rural and remote areas.	snop=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
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 equiment.	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 show 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
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
2561		hairdresser	A hair salon.	shop=hairdresser
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

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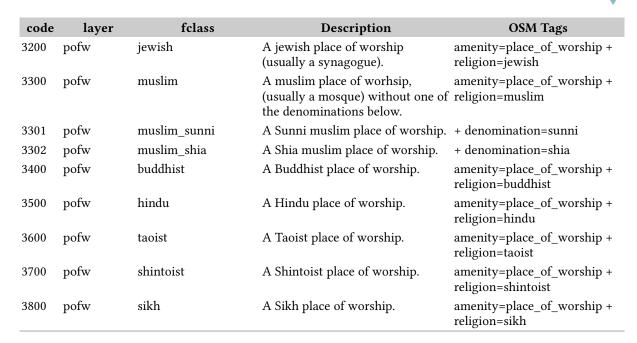
code	layer	fclass	Description	OSM Tags
2904		fountain	A fountain for cultural, decorative, or recreational purposes.	amenity=fountain
2905		hunting_stand	A hunting stand.	amenity=hunting_stand
2906		waste_basket	A waste basket.	amenity=waste_basket
2907		camera_surveillance	A surveillance camera.	man_made=surveillance
2921		emergency_phone	An emergency telephone.	amenity=emergency_phone, emergency=phone
2922		fire_hydrant	A firy 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_pla nt
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 an associated area layer (see section 2.8).

code	layer	fclass	Description	OSM Tags
3000	pofw		Places of worship	
3100	pofw	christian	A christian place of worship (usually a church) without one of the denominations below.	amenity=place_of_worship + religion=christian
3101	pofw	christian_anglican	A christian place of worship	+ denomination=anglican
3102	pofw	christian_catholic	where the denomination is	+ denomination=catholic
3103	pofw	christian_evangelical	known. (Note to German users: "protestant" is "evangelisch" in	+ denomination=evangelical
3104	pofw	christian_lutheran	German; "evangelical" is	+ denomination=lutheran
3105	pofw	christian_methodist	"evangelikal" in German.)	+ denomination=methodist
3106	pofw	christian_orthodox		+ denomination=orthodox
3107	pofw	christian_protestant		+ denomination=protestant
3108	pofw	christian_baptist		+ denomination=baptist
3109	pofw	christian_mormon		+ denomination=mormon

The following feature classes exist in this layer:



4.4 Natural Features ("natural")

The followin	g feature	classes	exist	in	this	layer:

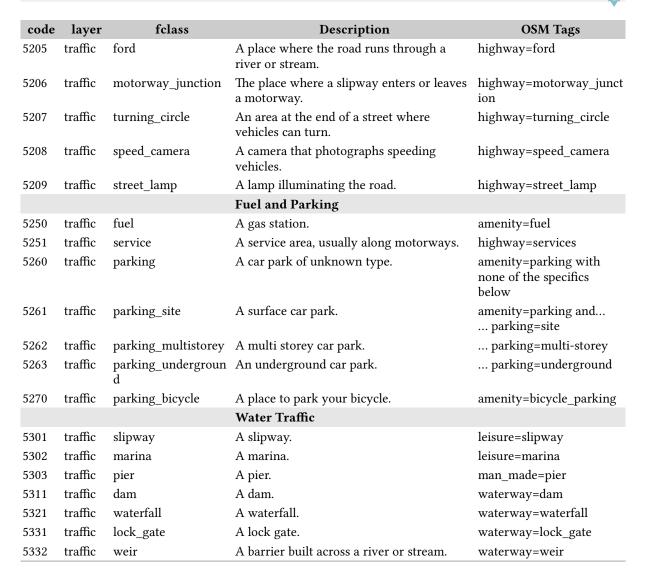
code	layer	fclass	Description	OSM Tags
4101	natural	spring	A spring, possibly source of a stream.	natural=spring
4103	natural	glacier	A glacier.	natural=glacier
4111	natural	peak	A mountain peak.	natural=peak
4112	natural	cliff	A cliff.	natural=cliff
4113	natural	volcano	A volcano.	natural=volcano
4121	natural	tree	A tree.	natural=tree
4131	natural	mine	A mine.	natural=mine
4132	natural	cave_entrance	A cave entrance.	natural=cave_entrance
4141	natural	beach	A beach. (Note that beaches are only rarely mapped as point features.)	natural=beach

4.5 Traffic Related ("traffic")

This layer exists both as area and as point layer (see section 2.8).

T	ne fol	lowing	g feature	classes	exist in	this lay	er:	
							_	

code	layer	fclass	Description	OSM Tags
5201	traffic	traffic_signals	Traffic lights.	highway=traffic_signals
5202	traffic	mini_roundabout	A small roundabout without physical strucutre, usually just painted onto the road surface.	highway=mini_roundabou t
5203	traffic	stop	A stop sign.	highway=stop
5204	traffic	crossing	A place where the street is crossed by pedestrians or a railway.	highway=crossing, railway=level_crossing



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")

This layer exists both as area and as point layer (see section 2.8).

The following feature classes exist in this layer:

code	layer	fclass	Description	OSM Tags
5601	transport	railway_station	A larger railway station of mainline rail services.	railway=station
5602	transport	railway_halt	A smaller, local railway station, or subway station.	railway=halt, or public_transport=stop_position + train=yes
5603	transport	tram_stop	A tram stop.	railway=tram_stop, or public_transport=stop_position + tram=yes
5621	transport	bus_stop	A bus stop.	highway=bus_stop, or public_transport=stop_position + bus=yes

13

code	layer	fclass	Description	OSM Tags
5622	transport	bus_station	A large bus station with multiple platforms.	amenity=bus_station
5641	transport	taxi_rank	A taxi rank.	amenity=taxi
565x			Air Traffic	
5651	transport	airport	A large airport.	amenity=airport or aeroway=aerodrome unless type=airstrip
5652	transport	airfield	A small airport or airfield.	aeroway=airfield, military=airfield, aeroway=aeroway with type=airstrip
5655	transport	helipad	A place for landing helicopters.	aeroway=helipad
5656	transport	apron	A apron (area where aircraft are parked)	aeroway=apron
566x			Water Traffic	
5661	transport	ferry_terminal	A ferry terminal.	amenity=ferry_terminal
567x			Other Traffic	
5671	transport	aerialway_station	A station where cable cars or lifts alight.	aerialway=station

5 Line Features

5.1 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 the opposite direction is allowed. "B" (default value) means that both directions are ok.	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=*

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



The following feature classes exist in this layer:

5.2 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=*

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

The following feature classes exist in this layer:

5.3 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	layer	fclass		Description	OSM Tags
8101	waterways	river	A large river.		waterway=river



code	layer	fclass	Description	OSM Tags
8102	waterways	stream	A smaller river or stream.	waterway=stream
8103	waterways	canal	An artificial waterway.	waterway=canal
8104	waterways	drain	A small drainage ditch or similar structure.	waterway=drain

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 Polygon Features

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

6.1 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)

The following feature classes exist in this layer:

code	layer	fclass	Description	
1500	buildings		Building outlines	building=*

6.2 Land use and land cover ("landuse")

The following	feature	classes	exist	in	this	laver:
Inc tono wing	iculuic	clubbeb	CAISt	111	uno	iayer.

code	layer	fclass	Description	OSM Tags
7201	landuse	forest	A forest or woodland.	landuse=forest, natural=wood
7202	landuse	park	A park.	leisure=park, leisure=common
7203	landuse	residential	A residential area.	landuse=residential
7204	landuse	industrial	An industrial area.	landuse=industrial
7206	landuse	cemetery	A cemetery or graveyard.	landuse=cemetery
7207	landuse	allotments	An area with small private gardens.	landuse=allotments
7208	landuse	meadow	A meadow, possibly used for grazing cattle.	landuse=meadow
7209	landuse	commercial	A commercial area.	landuse=commercial
7210	landuse	nature_reserve	A nature reserve.	leisure=nature_reserve
7211	landuse	recreation_ground	An open green space for general recreation.	leisure=recreation_ground or landuse_recreation_ground
7212	landuse	retail	An area mainly used by shops.	landuse=retail
7213	landuse	military	Military landuse, usually no access for civilians.	landuse=military

code	layer	fclass	Description	OSM Tags
7214	landuse	quarry	A quarry.	landuse=quarry
7215	landuse	orchard	An area used for growing fruit-bearing trees.	landuse=orchard
7216	landuse	vineyard	An area used for growing grapes.	landuse=vineyard
7217	landuse	scrub	An area where scrub grows.	landuse=scrub
7218	landuse	grass	An area where grass grows.	landuse=grass
7219	landuse	heath	Heath areas.	natural=heath
7220	landuse	national_park	A national park.	boundary=national_park
7228	landuse	farmland	Agricultural land (areas where crops are grown)	landuse=farmland
7229	landuse	farmyard	Area of land with farm buildings and the shrubbery/trees around them.	landuse=farmyard

6.3 Bodies of Water ("water")

code	layer	fclass	Description	
8200	water	water	Unspecified bodies of water. Typically lakes, but can also be larger rivers, harbours, etc.	natural=water + water! =river/reservoir
8201	water	reservoir	Artificial lakes, typically above a dam.	landuse=reservoir, natural=water + water=reservoir
8202	water	river	Polygons for larger rivers.	waterway=riverbank, natural=water + water=river
8203	water	dock	Dock (to repair ships, don't confuse it with the American term "dock")	waterway=dock
8211	water	glacier	Glaciers	natural=glacier
8221	water	wetland	Wetland	natural=wetland

The following feature classes exist in this layer:

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.

7 Differences to Commercial "0.7" Shape Files

Geofabrik offers an extended version of these shapes, for arbitrary areas, commercially. These 0.7 files contain the following extensions compared to the free files:

7.1 Associated Area Layer

As described in section 2.8, some features are drawn at OpenStreetMap sometimes as area and sometimes as points. Geofabrik's paid shape files contain centroids of the areas if a feature class exists both as area and as point.

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7.2 Additional Layers

Geometry	Code	Layer	Description
Point			
	521x	traffic	Barriers on roads and paths, e.g. lift gates or bollards
	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	aeroways	Runways and taxiways at airports
	83xx	coastline	Coastline
	53xx, 54xx, 55xx, 56xx, 62xx, 63xx, 64xx, 65xx		Roads and railways planned, under construction, or disused
	91xx	cycle_route_segme nts	Roads which are part of cycle routes not provided by the routes layer.
Polygon			
	12xx	adminareas	Administrative areas (countries, states, counties,)
MultiLineString			
	90xx	routes	Routes for cycling, hiking, moutain bikes, nordic walking and running

The following additional layers are available in the commercial shape files:

7.3 Additional Feature Classes

The following layers have additional features in the paid shape files:

1005placesnational_capital1099placesnamed_place - something tagged area=yes in OpenStreetMap and name but with no other meaningful information565xtransportairport, airfield, helipad5671transportaerialway_station2524poisoutdoor_shop2525poismobile_phone_shop2529poisbeauty_shop2530poisvideo_shop2541poiscar_dealership2544poisfurniture_shop2543poisemergency_access_point4103naturalglacier4121naturalspeed_camera5209trafficspeed_camera5209trafficspeed_camera5209trafficspeed_camera5209trafficstreet_lamp5160roadsferry521x, 522xtrafficbarriers on roads and paths, e.g. lift gates and bollards	code(s)	layer	fclass(es)/description
565xtransportairport, airfield, helipad5671transportaerialway_station2524poisoutdoor_shop2525poismobile_phone_shop2529poisbeauty_shop2530poisvideo_shop2541poiscar_dealership2544poisfurniture_shop2543poisemergency_access_point4103naturalglacier4121naturalspeed_camera5208trafficstreet_lamp5160roadsferry	05	places	national_capital
5671transportaerialway_station2524poisoutdoor_shop2525poismobile_phone_shop2529poisbeauty_shop2530poisvideo_shop2541poiscar_dealership2544poisfurniture_shop2923poisemergency_access_point4103naturalglacier4121naturalspeed_camera5208trafficspeed_camera5160roadsferry	99	places	named_place – something tagged area=yes in OpenStreetMap and carrying a name but with no other meaningful information
2524poisoutdoor_shop2525poismobile_phone_shop2529poisbeauty_shop2530poisvideo_shop2541poiscar_dealership2544poisfurniture_shop2923poisemergency_access_point4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	5x	transport	airport, airfield, helipad
2525poismobile_phone_shop2529poisbeauty_shop2530poisvideo_shop2541poiscar_dealership2544poisfurniture_shop2923poisemergency_access_point4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	571	transport	aerialway_station
2529poisbeauty_shop2530poisvideo_shop2541poiscar_dealership2544poisfurniture_shop2923poisemergency_access_point4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	524	pois	outdoor_shop
2530poisvideo_shop2541poiscar_dealership2544poisfurniture_shop2923poisemergency_access_point4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	25	pois	mobile_phone_shop
2541poiscar_dealership2544poisfurniture_shop2923poisemergency_access_point4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	29	pois	beauty_shop
2544poisfurniture_shop2923poisemergency_access_point4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	30	pois	video_shop
2923poisemergency_access_point4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	541	pois	car_dealership
4103naturalglacier4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	44	pois	furniture_shop
4121naturaltree5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	23	pois	emergency_access_point
5208trafficspeed_camera5209trafficstreet_lamp5160roadsferry	03	natural	glacier
5209trafficstreet_lamp5160roadsferry	21	natural	tree
5160 roads ferry	208	traffic	speed_camera
5	209	traffic	street_lamp
521x, 522x traffic barriers on roads and paths, e.g. lift gates and bollards	60	roads	ferry
	21x, 522x	traffic	barriers on roads and paths, e.g. lift gates and bollards
523x traffic traffic calming	23x	traffic	traffic calming
7210 landuse nature_reserve	210	landuse	nature_reserve

code(s)	layer	fclass(es)/description
7220	landuse	national_park
7221	landuse	basin
7222	landuse	village_green
7223	landuse	plant_nursery
7224	landuse	brownfield
7225	landuse	greenfield
7226	landuse	construction
7227	landuse	railway
8211	water	glacier
611x	railways	drag_lift, chair_lift, cable_car, gondola, goods, other_lift

7.4 Additional Fields

The following fields are additionally available in the paid shape files:

Layer	Attribute	PostGIS Type	Description	OSM Tags
all layers	lastchange	TIMESTA MP 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.	
natural	elevation	INTEGER	Height of the feature above mean sea level, in metres.	elevation=*
roads	maxspeed	SMALLINT	Max allowed speed in km/h	maxspeed=*
roads	surface	VARCHAR(20)	The surface of the road	surface=*
railways	electr	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=*
buildings	height	SMALLINT	Height of the building.	height=*
buildings	levels	SMALLINT	Number of floors	building:levels=*