Tools for linking OpenStreetMap and Wikigata

Edward Betts FOSDEM 2023

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Royal Palace of Brussels

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OpenStreetMap Edit History .

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Royal Palace (Q635307)

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English	Royal Palace	palace in Brussels	Royal Palace of Brussels
Language	Label	Description	Also known as

Statements

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Relation: Royal Palace (3299902)

Version #13

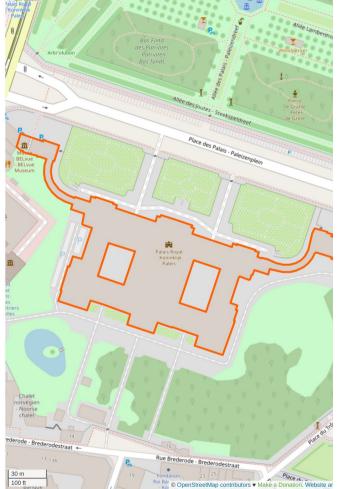
Search

Update mapillary value from API v3 to v4 ID (2Ny81XTLPOeb52kp3yoAHQ => 763145224402816)

Edited 4 months ago by kmpoppe (@ Mapillary Update) Changeset #127678063

Tags

access	permissive
addr:city	Bruxelles - Brussel
addr:housenumber	1
addr:postcode	1000
addr:street	Place des Palais - Paleizenplein
architect	Tilman-François Suys;Alphonse Balat;Henri Maquet
architect:wikidata	Q1755224;Q2074447; Q3131561
building	yes
building:architecture	beaux_arts;neoclassic ism
castle_type	palace
heritage	4
heritage:operator	Patrimoine.brussels - Erfgoed.brussels
heritage:website	https://monument.he ritage.brussels /nl/buildings/30402
historic	castle
	https://commons.wiki



www.openstreetmap.org



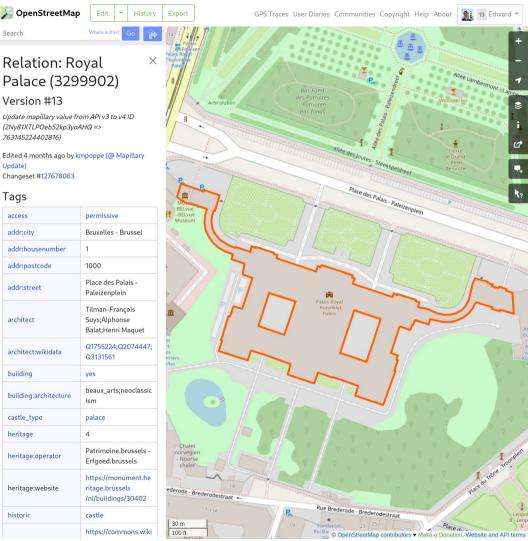
Search

Update)

Tags

access

- Collaborative built map
- Started in 2004
- Covers the whole world
- Anybody can edit



Search

Update)

Tags access

addr:citv

addr:street

architect

building

castle type

heritage

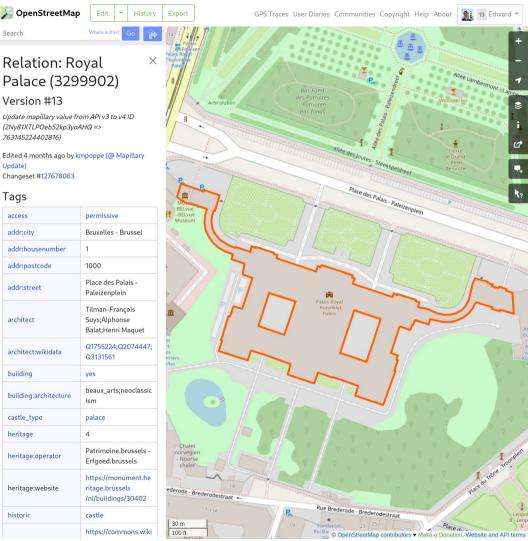
historic

Three types of object

- Nodes simple point
- Ways lines and polygons
- Relations more complex, multiple points, lines and

polygons

••)

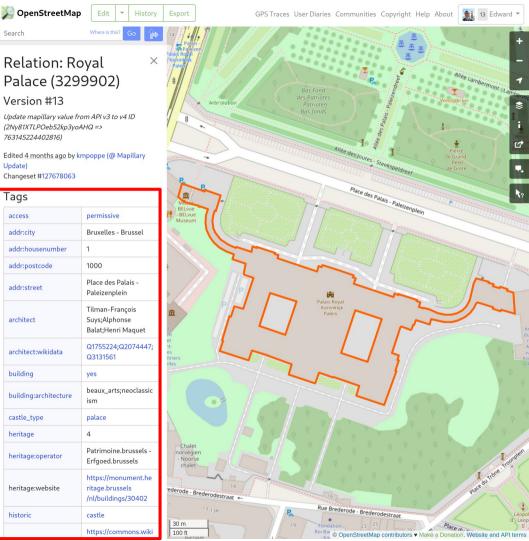


Objects can have tags Tags are key-value pairs (both arbitrary strings)

For example:

building=yes historic=castle castle_type=palace





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Key:castle_type

Page Discussion

Wiki

Main Page The map Map Features

Contributors Help Blogs Shop

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What links her Related chang Upload file

Cite this page Data Items iter

	sch english esp	<u>añol_italiano_polski_pycский 日本語</u>			
		Other languages	• <u>Translate</u>		
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					Used on these element
Table Castl	e_type				
Key	Value	Description	Carto map icon	Example	Documented values: 9 Requires
<u>castle_type</u>	<u>defensive</u>	Defensive castle . Fortified, defensible dwelling or military stronghold.			 <u>historic=castle</u> Useful combination <u>heritage=*</u>
<u>castle_type</u>	<u>palace</u>	A palace is a grand residence in a city, especially a royal residence or the home of a head of state or some other high-ranking dignitary, such as a bishop or archbishop.	i f i		Status: in use castle_type=* ※ 23,092 ● 4,974 ● 15,666
<u>castle_type</u>	<u>stately</u>	Stately home. Representative building without functional defenses. Sometimes rebuilt from former defensive structures.	ifii		2,452 More details at taginfo Tools for this tag • taginfo L ³ • GB L ³ • IN
<u>castle_type</u>	manor	A manor house is a country house which was historically the capital residence or messuage within a manor, the basic unit of territorial organisation in the feudal system	A		US 亿 • <u>overpass-turbo</u> 亿 • <u>OSM Tag History</u> 亿

Tags are not controlled by the software

OpenStreetMap

There is a community process for deciding on preferred tagging schemes, which are then documented on the OSM Wiki



Search

Version #13

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Update)

Tags

access

addr:city

addr:housenumber

addr:postcode

addr:street

architect

building

castle_type

heritage

historic

architect:wikidata

building:architecture

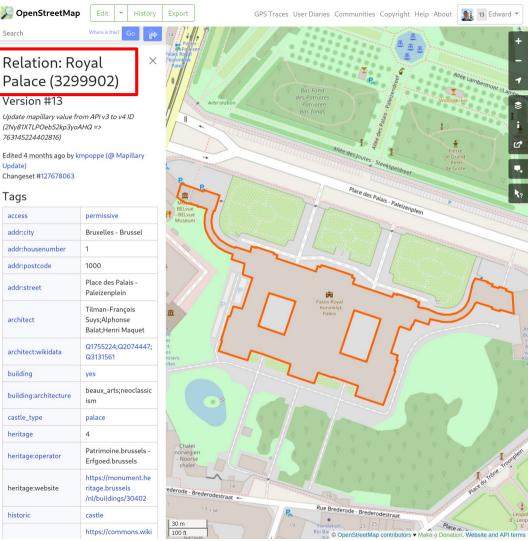
heritage:operator

heritage:website

Objects are uniquely identified by the type and ID

type: relation ID: 3299902





Wikidata

www.wikidata.org



Wikidata

- Wiki for structured data
- Part of Wikimedia
- Launched in 2012
- 102 million items
- For comparison
 English Wikipedia has
 6.6 million articles



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Royal Palace (Q635307)

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Edward 🧤 📭 🎫 👗

≣ Royal Palace of Brussels

Article Talk

From Wikipedia, the free encyclopedia

The **Royal Palace of Brussels** (French: Palais royal de Bruxelles, pronounced [pa.lɛ ʁwa.jal də bʁy.sɛ], Dutch: Koninklijk Paleis van Brussel ['ko:nɪŋklək pa:'lɛis fɑm 'brysəl]^[a], <u>German</u>: Königlicher Palast von Brüssel) is the official palace of the <u>King and Queen of the Belgians</u> in the centre of the nation's capital, <u>Brussels</u>. However, it is not used as a royal residence, as the king and his family live in the <u>Royal Palace of Laeken</u> in northern Brussels. The website of the Belgian Monarchy describes the function of the palace as follows:

The Palace is where His Majesty the King exercises his prerogatives as Head of State, grants audiences and deals with affairs of state. Apart from the offices of the King and the Queen, the Royal Palace houses the services of the Grand Marshal of the Court, the King's Head of Cabinet, the Head of the King's Military Household and the Intendant of the King's Civil List. The Palace also includes the State Rooms where large receptions are held, as well as the apartments provided for foreign Heads of State during official visits.

The first nucleus of the present-day building dates from the end of the 18th century. However, the grounds on which the palace stands were once part of the <u>Coudenberg Palace</u>, a very old palatial complex that dated back to the <u>Middle Ages</u>.^[2] The facade existing today was only built after 1900 on the initiative of <u>King Leopold II</u>.

The Royal Palace is situated in front of <u>Brussels Park</u>, from which it is separated by a long square called the Place des Palais/Paleizenplein. The middle axis of the park marks both the middle <u>peristyle</u> of the Royal Palace and of the <u>Belgian Federal Parliament</u> building (Palace of the Nation) on the other side of the park. The two facing buildings are said to symbolise Belgium's system of government: a <u>constitutional monarchy</u>. This area is served by <u>Brussels Central Station</u>, as well as

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Coordinates: 🕘 50°50′30″N.04°21′44″E

Royal Palace of Brussels

Palais royal de Bruxelles (French) Koninklijk Paleis van Brussel (Dutch) Königlicher Palast von Brüssel (German)



Main facade of the Royal Palace of Brussels seen from the Place des Palais/Paleizenplein



Location within Brussels Show map of Brussels Show map of Belgium

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Article Talk

From Wikipedia, the free encyclopedia

The **Royal Palace of Brussels** (French: Palais royal de Bruxelles, pronounced [pa.lɛ ʁwa.jal də bʁy.sɛ], Dutch: Koninklijk Paleis van Brussel ['ko:nɪŋklək pa:'lɛis fɑm 'brysəl]^[a], <u>German</u>: Königlicher Palast von Brüssel) is the official palace of the <u>King and Queen of the Belgians</u> in the centre of the nation's capital, <u>Brussels</u>. However, it is not used as a royal residence, as the king and his family live in the <u>Royal Palace of Laeken</u> in northern Brussels. The website of the Belgian Monarchy describes the function of the palace as follows:

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Coordinates: 🕘 50°50′30″N.04°21′44″E

Royal Palace of Brussels

Palais royal de Bruxelles (French) Koninklijk Paleis van Brussel (Dutch) Königlicher Palast von Brüssel (German)



Main facade of the Royal Palace of Brussels seen from the Place des Palais/Paleizenplein



Location within Brussels Show map of Brussels Show map of Belgium

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Item Discussion palace in Brussels Royal Palace of B In more langua Configure	russels		e e	dit Wikipedia (26 entries) redit [move] ast Palaciu Real de Bruxeles be Каралеўскі палац (Брусель)	 The Royal Palace of Brussels (French: Palais royal de Bruxelles, pronounced [pa.lɛ ʁwa.jal də bʁy.sɛl], Dutch: Koninklijk Paleis van Brussel ['ko:nɪŋklək pa:'lɛis fɑm 'brysəl], German: Königlicher Palast von Brüssel) is the official palace of the King and Queen of the Belgians
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• In more languages

Configure

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Asturian	Palaciu Real de Bruxeles	No description defined	
Belarusian	Каралеўскі палац, Брусель	No description defined	
Belarusian (Taraškievica orthography)	Каралеўскі палац	замак у Брусэлі (Бэльгія)	
Catalan	Palau reial de Brussel·les	No description defined	
Czech	Královský palác v Bruselu	zámek v Belgii	Koninklijk Paleis van Brussel Palais Royal de Bruxelles
German	Königlicher Palast	Schloss in Brüssel	
Greek	Βασιλικό Παλάτι των Βρυξελλών	No description defined	
Esperanto	Reĝa Palaco de Bruselo	No description defined	
Spanish	Palacio Real de Bruselas	No description defined	
Basque	Bruselako errege-erreginen jauregia	No description defined	
Persian	قصر سلطنتى بروكسل	No description defined	
French	Palais royal	palais à Bruxelles	Palais royal de Bruxelles
Indonesian	Istana Kerajaan Brussel	bangunan istana di Belgia	
Italian	Palazzo reale di Bruxelles	residenza ufficiale della famiglia reale belga a Bruxelles	
Japanese	ブリュッセル王宮	No description defined	
Korean	브뤼셀 왕궁	No description defined	



Wikidata

Items have statements

- Statements consist of properties and values
- Like OSM tags, but controlled by the software
- Values can be different data types, not just strings



Q Search Wikidata

Royal Palace (Q635307)

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Wikidata

- 9,731,589 items
 with location
 coordinates
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- 28,886 items with a geoshape statement







Adding links

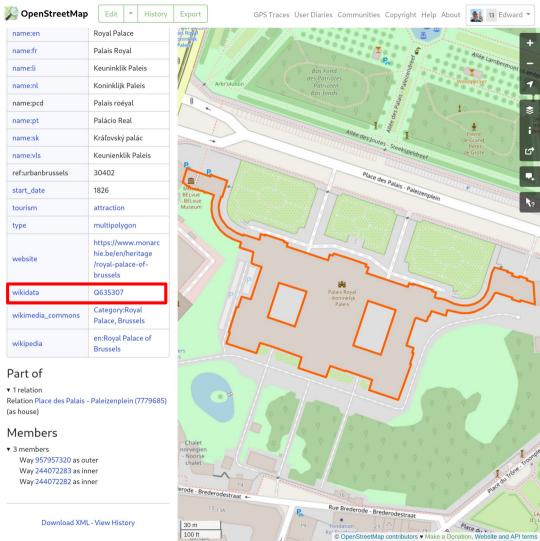


Wikidata tag

Objects in OSM can link to a Wikidata item by adding a tag.

Example: wikidata=Q635307

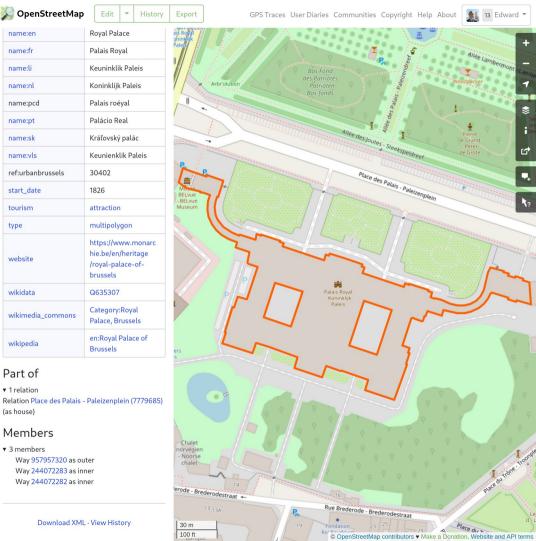




Why add links?

Wikidata links mean OSM data consumers can potentially access:

- Labels in more languages
- Wikipedia articles in multiple languages
- Wikimedia Commons
- Identifiers for other data catalogues





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Architect Ghislain-Joseph

Cat-a-

From Wikimedia Commons, the free media repository

Category:Royal Palace, Brussels

English: The Royal Palace in Brussels was built in the early 19th century and expanded by King Leopold II, second King of the Belgians. It is the working palace of His Maiesty the King, and His Roval Household.

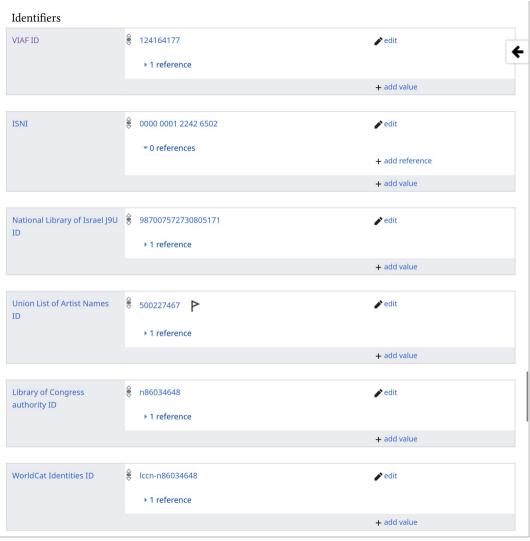
View

Roval Palace [Collapse] Media in category "Royal Palace, Brussels" palace in Brussels The following 16 files are in this category, out of 16 total. ⊙ image ○ nighttime view O winter view O image of interior 2019 TdF stage 1 2019 TdF stage 1 **Belgique Palais Royal** Bruksela 2005 048.jpg Bruksela 2005 050.jpg Brussels 22 24 38 O Show all de Bruxelles.jpg Brussel 19.jpg Brussel 23.jpg 2.048 × 1.536: 461 KB 2.048 × 1.536: 350 KB 701000.jpeg Upload media 🖉 3,264 × 2,448; 2.49 MB 3,264 × 2,448; 2.59 MB 4,000 × 3,000; 1.94 MB 4,032 × 3,024; 4.13 MB Wikipedia Page information Instance of royal palace Location Brussels. Perform batch task Arrondissement of Nominate category for Brussels-Capital. **Brussels-Capital** Region, Belgium Street address Paleizenplein 1 **Brussels Royal Palace** Bruxelles - Palais Royal Congopaviljoen aan het Large Gallery at the Palais Royal bruxelles Palais royal de Download as PDF Architectural Neoclassical architec-R06.jpg de Bruxelles Koninklijk Paleis.jpg **Royal Palace of** Bruxelles 2021.jpg photo.jpg style ture 4,809 × 3,255; 11.19 MB (46385678045).jpg 4,608 × 2,592; 5.03 MB Brussels.jpg 5,360 × 3,573; 1.73 MB 6,000 × 4,000; 2.96 MB 3,072 × 3,726; 2.58 MB baroque revival 5,184 × 3,456; 8.57 MB **Beaux-Arts**

Wikipedia

More identifiers

Items on Wikidata includes identifiers for other data catalogues



Adding Wikidata links to OpenStreetMap individually is time <u>censumine</u> Better to automate it

OWL Places

osm.wikidata.link



Web interface for linking places in OSM to Wikidata

OSM ↔ Wikidata matcher

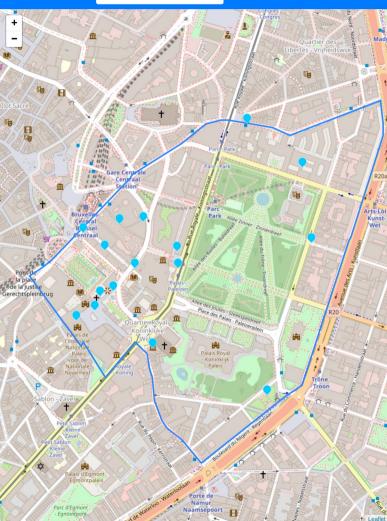
Two great projects cataloguing the world, even more powerful when linked together.

Search for a place, pick one and leave the matcher to run for a few minutes. Then check out the list of matches.

place name	search
------------	--------







Quartier Royal - Koninklijke Wijk, Brussels, Brussels-Capital, Belgium category: boundary – type: administrative – OSM: relation 7052710

Latest matcher run: Fri, 03 Feb 2023 10:41

Please check each match carefully before uploading to OpenStreetMap.

If in doubt, contact the local mapping community before adding Wikidata tags.

Match candidates Already tagged No match

16 candidates found

Run matcher again

Type filter

architectural structure (Q811979): 6 matches - designed structure

□ sculpture (Q860861): 4 matches – three-dimensional work of art

building (Q41176): 3 matches – structure, typically with a roof and walls, standing more or less permanently in one place
 business enterprise (Q4830453): 2 matches – organization involved in the trade of goods, services, or both to customers for pay
 statue (Q179700): 2 matches – sculpture primarily concerned as a representational figure
 show: more / all (another 7 available)

Drag to adjust language order preference.

English (142 Wikidata labels / 24 OSM objects)

Français / French (145 Wikidata labels / 85 OSM objects) [move to top]

Nederlands / Dutch (143 Wikidata labels / 85 OSM objects) [move to top]

Italiano / Italian (37 Wikidata labels / no OSM objects) [move to top]

Deutsch / German (72 Wikidata labels / 33 OSM objects) [move to top]

Español / Spanish (36 Wikidata labels / 1 OSM objects) [move to top]

汉语 / Chinese (36 Wikidata labels / 1 OSM objects) [move to top]



Bozar (Q66382933) - restaurant in Belgium

item type: restaurant show on map Wikidata 🗹

Summary from Francais / French Wikipedia (frwiki)

Bozar restaurant est un restaurant une étoile Michelin situé à Bruxelles, en Belgique, au sein du Palais des beaux-arts de Bruxelles (Bozar). Le chef est Karen Torosyan.

Matches from OpenStreetMap

Bozar Restaurant (node) [OSM 🔄 226 m from Wikidata name match

toggle name match detail toggle OSM tags

Place du Musée - Museumplein (Q85089891) – square in Brussels, Belgium

item type: square show on map Wikidata 🗹

Summary from Nederlands / Dutch Wikipedia (nlwiki)

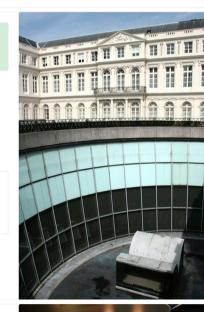
Het Museumplein (Frans: Place du Musée) is een plein in de Belgische hoofdstad Brussel. Het plein ligt in de omgeving van de Kunstberg en de Koninklijke Wijk. Via de Museumstraat is het plein met het Koningsplein verbonden. Ook is er een verbinding met de Koudenberg.

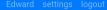
Matches from OpenStreetMap

Place du Musée - Museumplein (relation) [OSM 🕑] 6 m from Wikidata name match

toggle name match detail toggle OSM tags







Recent changes About - Random





Bozar (Q66382933) – restaurant in Belgium

item type: restaurant show on map Wikidata 🗹

Summary from Français / French Wikipedia (frwiki) 🗹

Bozar restaurant est un restaurant une étoile Michelin situé à Bruxelles, en Belgique, au sein du Palais des beaux-arts de Bruxelles (Bozar). Le chef est Karen Torosyan.

Matches from OpenStreetMap

Bozar Restaurant (node) [OSM 🕑]

226 m from Wikidata name match

toggle name match detail toggle OSM tags

Place du Musée - Museumplein (Q85089891) – square in Brussels, Belgium

item type: square show on map Wikidata 🗷

Summary from Nederlands / Dutch Wikipedia (nlwiki) 🗹

Het **Museumplein** (Frans: *Place du Musée*) is een plein in de Belgische hoofdstad Brussel. Het plein ligt in de omgeving van de Kunstberg en de Koninklijke Wijk. Via de Museumstraat is het plein met het Koningsplein verbonden. Ook is er een verbinding met de Koudenberg.

Matches from OpenStreetMap

Place du Musée - Museumplein (relation) [OSM 🕑]

6 m from Wikidata name match

toggle name match detail toggle OSM tags



Saving to OpenStreetMap



Login via OpenStreetMap OpenStreetMap Edit History Export GPS Traces User Diaries

Login

Don't have an account? Register now

Email Address or Username:

Edward

Password:

.....

Lost your password?

Remember me

Login



Alternatively, use a third party to login:

Quartier Royal - Koninklijke Wijk

back to candidate list

Quartier Royal - Koninklijke Wijk, Brussels, Brussels-Capital, Belgium category: boundary – type: administrative – OSM: relation 7052710	
Please check each match carefully before uploading to OpenStreetMap. If in doubt, contact the local mapping community before adding Wikidata tags.	

change comment: Add wikidata tags within Quartier Royal - Koninklijke Wijk, Brussels, B

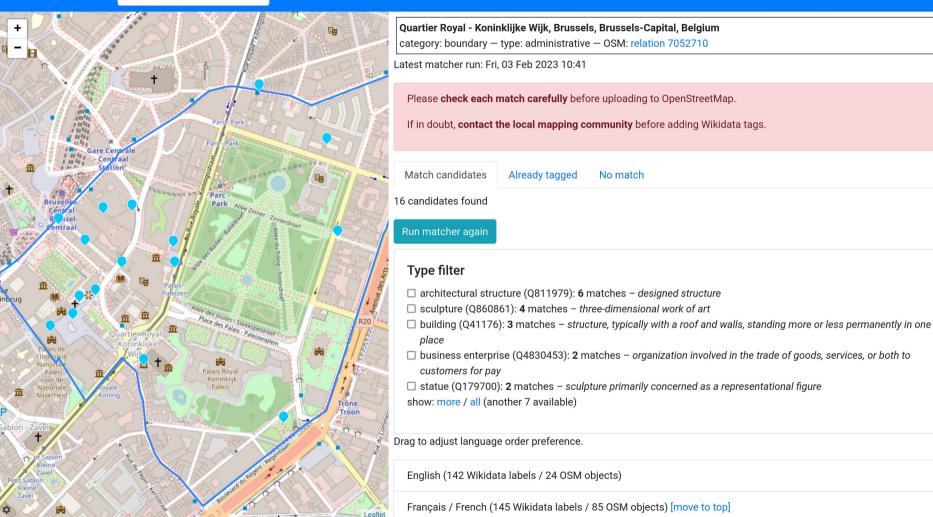
14 matches to upload

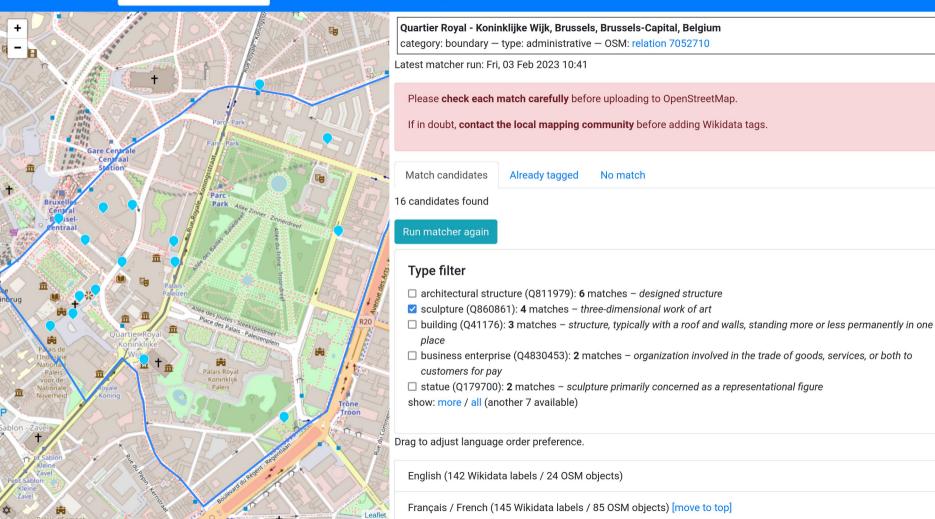
Untick the checkbox next to a match if you don't want the wikidata tag added to OSM.

Wikidata	OSM	distance	matching tags
Federal Public Service Interior (Q281880)	FPS Interior	(node, 47 m)	government=ministry, government
 Federal Agency for Nuclear Control (Q2264049) 	Agence fédérale de Contrôle nucléaire	(node, 4 m)	
National Archives of Belgium (Q2860528)	National Archives of Belgium	(node, 22 m)	government
De Warande (Q3020281)	De Warande	(way, 8 m)	
Augustin Daniel Belliard (Q16509718)	Augustin Daniel Belliard	(node, 1 m)	tourism=artwork, artwork_type=statue
Charles of Lorraine (Q16964841)	Charles of Lorraine	(node, 2 m)	artwork_type=statue, tourism=artwork
Hôtel des Finances (Q18088202)	Hôtel des Finances	(way)	building, building=yes

Type filter











Charles of Lorraine (Q16964841) – statue by Louis Jéhotte in Brussel, Belgium

item type: statue show on map Wikidata

Summary from Français / French Wikipedia (frwiki) 🗹

La **statue de Charles de Lorraine** est une statue érigée sur la place du Musée à Bruxelles (Belgique) à la gloire de Charles de Lorraine (ou plus précisément Charles-Alexandre de Lorraine), gouverneur général des Pays-Bas autrichiens de 1741 à 1780.

Matches from OpenStreetMap

Charles de Lorraine - Karel van Lotharingen (node) [OSM 🖒] 2 m from Wikidata name match

toggle name match detail toggle OSM tags



The Whirling Ear (Q55123016) – sculpture by Alexander Calder in Brussels, Belgium

item type: sculpture show on map Wikidata 🗹 Summary from English Wikipedia (enwiki) 🗹

The Whirling Ear is a 1958 sculpture by Alexander Calder, installed in Brussels. It was made using sheet metal and paint, with motor.

Matches from OpenStreetMap

L'Oraille Tourbillennante, Werveland Oar (node) [OSM



Quartier Royal - Koninklijke Wijk

back to candidate list

Quartier Royal - Koninklijke Wijk, Brussels, Brussels-Capital, Belgium category: boundary - type: administrative - OSM: relation 7052710			
	ch match carefully before uploading to OpenStreetMap. Act the local mapping community before adding Wikidata tags.		
change comment:	Add wikidata tags to sculptures in Quartier Royal - Koninklijke Wijk, E	save	

3 matches to upload

Untick the checkbox next to a match if you don't want the wikidata tag added to OSM.

	Wikidata	OSM	distance	matching tags
	Augustin Daniel Belliard (Q16509718)	Augustin Daniel Belliard	(node, 1 m)	artwork_type=statue, tourism=artwork
	Charles of Lorraine (Q16964841)	Charles of Lorraine	(node, 2 m)	artwork_type=statue, tourism=artwork
 	The Whirling Ear (Q55123016)	The Whirling Ear	(node, 1 m)	tourism, artwork_type=sculpture, tourism=artwork

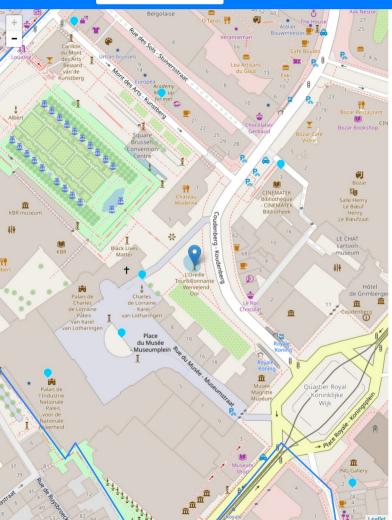


Matching criteria



Recent changes 🛛 About 👻 Randor





☑ The Whirling Ear (Q55123016) – sculpture by Alexander Calder in Brussels, Belgium

item type: sculpture show on map Wikidata 🖍

Summary from English Wikipedia (enwiki) 🗹

The Whirling Ear is a 1958 sculpture by Alexander Calder, installed in Brussels. It was made using sheet metal and paint, with motor.

Matches from OpenStreetMap

L'Oreille Tourbillonnante - Wervelend Oor (node) [OSM 🗭] exact location name match toggle name match detail toggle OSM tags

OpenStreetMap tags

openstreetwic	ip tags	
key	value	
name	L'Oreille Tourbillonnante - Wervelend Oor	
image	https://images.mapillary.com /f1NnjtTbG1FeKuzkHfYEDM/thumb-2048.jpg	
name:de	Das wirbelnde Ohr	
name:en	The Whirling Ear	7 name matches
name:fr	L'Oreille Tourbillonnante	
name:nl	Wervelend Oor	
tourism	artwork	item type tag matches
landmark	statue	
mapillary	457564878880897	
artist_name	Alexander Calder	
artwork_type	sculpture	item type tag matches





Whirling Ear



4

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Switch to old look

Lexicographical data

Create a new Lexeme Recent changes Random Lexeme

Tools

What links here Related changes Special pages Permanent link Page information Concept URI Cite this page Automatic addition

In Wikipedia

The Whirling Ear (Q55123016)

The Whirling Ear

-

Item Discussion			Read View	w history 🛱 ⇔ ⇔ More 举
sculpture by Alex Whirling Ear	ander Calder in Brussels, B	Belgium	sedit 🖍	
 In more langua Configure 	ages			
Language	Label	Description	Also known as	

sculpture by Alexander Calder in Brussels,

All entered languages

English



Belgium





Main page

Project chat

Recent changes

Random Item

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Random Lexeme

What links here **Related changes**

Special pages Permanent link Page information Concept URI Cite this page Automatic addition In Wikipedia

Tools

Help

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11

0 sculpture (Q860861) Community portal Read View history $\bigstar \Leftrightarrow \Rightarrow$ More \checkmark Item Discussion Create a new Item three-dimensional work of art sedit sculptures | piece of sculpture | sculptural work In more languages Configure Language Label Description Also known as Switch to old look three-dimensional work of art English sculpture sculptures piece of sculpture Lexicographical data sculptural work Create a new Lexeme

All entered languages

Statements insta

nce of	genre		🖍 edit
	reason for deprecated rank	does not exactly match	
	▼ 0 references		
			+ add reference
ŧ	form of art		₽ edit
	- 0 vofevenes		
	 0 references 		+ add reference
			a sector and the sector of the
			+ add value

OSM tag

Wikidata has a property for OpenStreetMap tag or key Wil

The Wikidata item for sculpture has the OSM tag 'artwork_type=sculpture'

imedia outline	outline of sculpture	🗨 edit
	▼ 0 references	+ add reference
		+ add value

OpenStreetMap tag or key	Tag:artwork_type=sculpture	redit
	▼ 0 references	+ add reference
	Tag:artwork:type=sculpture	sedit 🖍
	▼ 0 references	+ add reference
		+ add value
equivalent class	https://schema.org/Sculpture	n edit
	▼ 0 references	
		+ add reference
		+ add value
numerical fact this type	0	
properties for this type	Vanderkrogt.net Statues ID	n edit
properties for this type	 Vanderkrogt.net Statues ID 0 references 	n edit

+ add value



OpenStreetMap and Wikidata matching criteria

- entity type ANDcoordinates AND
 - name OR
 street address OR
 identifier





Match on identifier

- Railway station code
- IATA airport code
- ICAO airport code
- FAA airport code
- ISO 3166-2 country code
- NRHP reference number
- FIPS 6-4 (US counties)
- ▶ FIPS 5-2 (code for US states) Website
- USGS GNIS ID

IBNR ID

- National Heritage List for England number
- UK Government Statistical

Service code

- EDUBase URN
- Admiralty number (lighthouse)

Not using Wikipedia tags to find matches

- Sometimes wrong
- Less interesting problem
- Expected somebody else to
- Plan to do it eventually





Technology stack



Technology stack

Backend

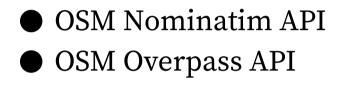
- Python
- Flask
- SQLAlchemy
- PostGIS
- gevent

Frontend

- websockets
- Bootstrap
- jQuery
- Leaflet
- VueJS



APIs



- Wikidata MediaWiki API
- Wikidata Query Service



Unsupported item types



Tunnels

Wikidata usually represents tunnels as a single item

OSM often represents them as two ways, one for each direction of traffic or tunnel bore

The software should be changed to recognise tunnels and add the Wikidata tag to both ways



Rivers

OSM represents rivers as linear relations

The only type of relation supported by osm2pgsql is a polygon

The data model it uses has no support for linear relations



Tram stops

Wikidata represents tram stops in both directions as a single item

OSM represents tram stops as a two node, one for each direction

The nodes are combined into a single relation

These relations are unsupported in osm2pgsql, so the matcher fails to identifier the relation



Language switcher





Type filter

structure architecturale (Q811979): 6 matches - construction dont la conception a été pensée
 sculpture (Q860861): 4 matches - objet d'art tri-dimensionnel
 bâtiment (Q41176): 3 matches - construction immobilière, réalisée par intervention humaine
 entreprise (Q4830453): 2 matches - organisation qui vend des biens et/ou des services
 statue (Q179700): 2 matches - œuvre artistique
 show: more / all (another 7 available)

Drag to adjust language order preference.

Français / French (145 Wikidata labels / 85 OSM objects)

Nederlands / Dutch (143 Wikidata labels / 85 OSM objects) [move to top]

English (142 Wikidata labels / 24 OSM objects) [move to top]

Italiano / Italian (37 Wikidata labels / no OSM objects) [move to top]

Deutsch / German (72 Wikidata labels / 33 OSM objects) [move to top]

Español / Spanish (36 Wikidata labels / 1 OSM objects) [move to top]

汉语 / Chinese (36 Wikidata labels / 1 OSM objects) [move to top]

日本語 / Japanese (29 Wikidata labels / no OSM objects) [move to top]

Català / Catalan (26 Wikidata labels / no OSM objects) [move to top]

Lingua Latina / Latin (22 Wikidata labels / no OSM objects) [move to top]



Type filter

bouwwerk (Q811979): 6 matches - een ontworpen constructie
sculptuur (Q860861): 4 matches - driedimensionaal kunstwerk
gebouw (Q41176): 3 matches - bouwwerk met muren en dak
onderneming (Q4830453): 2 matches
standbeeld (Q179700): 2 matches
show: more / all (another 7 available)

Drag to adjust language order preference.

Nederlands / Dutch (143 Wikidata labels / 85 OSM objects)

Français / French (145 Wikidata labels / 85 OSM objects) [move to top]

English (142 Wikidata labels / 24 OSM objects) [move to top]

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Català / Catalan (26 Wikidata labels / no OSM objects) [move to top]

Lingua Latina / Latin (22 Wikidata labels / no OSM objects) [move to top]





Type filter

- □ architectural structure (Q811979): 6 matches designed structure
- □ sculpture (Q860861): 4 matches three-dimensional work of art
- □ building (Q41176): **3** matches structure, typically with a roof and walls, standing more or less permanently in one place
- □ business enterprise (Q4830453): 2 matches organization involved in the trade of goods, services, or both to customers for pay
- □ statue (Q179700): **2** matches *sculpture primarily concerned as a representational figure* show: more / all (another 7 available)

Drag to adjust language order preference.

English (142 Wikidata labels / 24 OSM objects)
Français / French (145 Wikidata labels / 85 OSM objects) [move to top]
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日本語 / Japanese (29 Wikidata labels / no OSM objects) [move to top]
Català / Catalan (26 Wikidata labels / no OSM objects) [move to top]



Service public fédéral Intérieur (Q281880)

item type: Service public fédéral / ministère de l'Intérieur show on map Wikidata 🗹

Summary from Français / French Wikipedia (frwiki) 🖸

Le **service public fédéral Intérieur** (*nl: Federale Overheidsdienst Binnenlandse Zaken*), abrégé **IBZ** pour *Intérieur Binnenlandse Zaken*, ou **SPF Intérieur**, est un service public fédéral belge (la dénomination de « ministère »).

website: http://www.ibz.be

Ctract addraga

Matches from OpenStreetMap

FOD Binnenlandse Zaken - SPF Intérieur - FÖD Inneres (node) [OSM 🗗] 47 m from Wikidata identifier match name match

toggle name match detail toggle OSM tags

☑ archives générales du Royaume (Q2860528)

item type: archives nationales show on map Wikidata Summary from Français / French Wikipedia (frwiki)

En Belgique, les **Archives générales du Royaume** (en néerlandais : *Algemeen Rijksarchief* ; en allemand : *Generalstaatsarchiv*), constituent le siège central des Archives de l'État. Situées dans la rue de Ruysbroeck à Bruxelles, à cinq minutes à pied de la gare centrale et de la place du Sablon, elles conservent en leurs murs plus de 70 km d'archives et de livres.







Federale Overheidsdienst Binnenlandse Zaken (Q281880) – Belgische federale overheidsdienst

item type: Federale Overheidsdienst / Ministerie van Binnenlandse Zaken show on map Wikidata 🗗

Summary from Nederlands / Dutch Wikipedia (nlwiki) 🗹

De **Federale Overheidsdienst Binnenlandse Zaken** is een federale overheidsdienst van België, afgekort als IBZ (*Intérieur Binnenlandse Zaken*). Deze FOD is onder meer verantwoordelijk voor de inschrijving en identificatie van natuurlijke personen, het vreemdelingenbeleid, de openbare orde, veiligheid en preventie, crisisbeheer.

website: http://www.ibz.be

Matches from OpenStreetMap

FOD Binnenlandse Zaken - SPF Intérieur - FÖD Inneres (node) [OSM ^[7]] 47 m from Wikidata Identifier match

toggle name match detail toggle OSM tags

Algemeen Rijksarchief (België) (Q2860528) – hoofdzetel in Brussel van het Rijksarchief van België









Federal Public Service Interior (Q281880) – Belgian government department

item type: Federal Public Service / interior ministry show on map Wikidata Summary from English Wikipedia (enwiki)

The **FPS Interior** (Dutch: *FOD Binnenlandse Zaken*, French: *SPF Intérieur*, German: *FÖD Inneres*), formerly the **Ministry of the Interior**, is a Federal Public Service of Belgium. It was created by Royal Order on January 14, 2002, as part of the plans of the Verhofstadt I Government to modernise the federal administration. The FPS Interior employs approximately 4,300 persons and is responsible for guaranteeing the rule of law, the registration and identification of natural persons, the immigration policy and for guaranteeing public order and safety.

website: http://www.ibz.be

Matches from OpenStreetMap

 FOD Binnenlandse Zaken - SPF Intérieur - FÖD Inneres (node) [OSM]

 47 m from Wikidata identifier match

 toggle name match detail

 toggle OSM tags

☑ National Archives of Belgium (Q2860528) – main seat (Brussels) of Belgium's National Archives





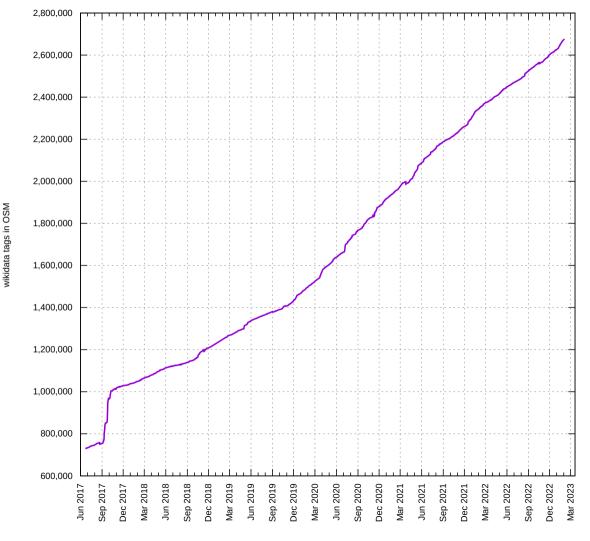


Stats



Tag count

There are 2,675,380 objects with a 'wikidata' tag in OpenStreetMap





Mappers are using the tool

MappersChangesetsWikidata tags addedAdded by this tool40223k687k26%

Number of people who have used the tool to edit OSM

Uploaded to OpenStreetMap

Things that have been matched

Percent of wikidata tags in OSM added by this tool



Licenses



Different licenses

- Wikidata is licensed CC0 or Public Domain
- OpenStreetMap uses the Open Database License (OdbL)
- Copying data from
 OpenStreetMap to
 Wikidata would violate





Different intellectual property jurisdiction

- OpenStreetMap asserts database rights which exist under European law
- Wikidata operates under US intellectual property rules
- Facts are not protected in US law





OWL Place license

- License is GPL-3.0
- Code is on GitHub

github.com/Edwardbetts/osm-wikidata



Stable identifiers



OpenStreetMap

- To link we need stable identifiers
- OSM doesn't have stable identifiers
- They have been discussed on the OSM Wiki since 2017
- The existing IDs are stable enough



Main Page The map Map Features Contributors Help Blogs Shop Donations Wiki discussion Recent changes

Tools

What links here Related changes Upload file Special pages Printable version Permanent link Page information Cite this page

XA British English Edward Image: Contribution in the second second

Permanent ID

Page

• This is a work in progress, feel free to improve, correct, or suggest ideas on the discussion page

A concept of a "permanent ID" (or <u>Persistent Place Identifier</u>) has been frequently floated in the discussions. This page attempts to document the expectations and <u>requirements</u> for such features.

A permanent ID is some <u>opaque string</u>, whose value will always represent the same OSM feature, such as a street, a building, a country outline, or a <u>point of interest</u> (POI). The ID must remain valid even if the country outline geometry is changed, a POI gets renamed, or if the street gets split into multiple segments — in this case the ID itself can't group the segments, but generates a suggestion to group all with a relation that will preserve the ID instead the first segment.

The Permanent ID represents a "concept"

As editors improve data, any aspect of that data may change. A restaurant node POI may become a building or a relation, and its name may be corrected. A single way representing a street may be split into multiple ways due to a partial speed restriction, or may become two ways separated by a divider. The ID must still point to the original "concept". Consequentially, not every OSM feature needs to have a Permanent ID. This Permanent ID characteristic is closed with POI concept, <u>linked data</u> concept, <u>"One</u> feature, one OSM element" principle and the Wikidata-tag attribution process.

Support ID resolution

Duplicates happen and other "official names" are welcome. As data gets corrected, multiple Permanent IDs may be discovered to represent the same concept, and should be merged. Yet, both IDs must remain, and point to the same feature.

Other popular <u>identification authorities</u> ^[2] like ISO, Geonames and Wikidata, or official authorities (country-specific like <u>IBGE ID</u> ^[2]) have its proper IDs that will be good synonyms for the Permanent IDs. All valid references (the "merged Permanent IDs" and the "external

Wikidata

- Designed to have stable identifiers
- Turns out the Wikidata QIDs can change
- Wikidata includes duplicates, when they are merged one item is replaced with a redirect
- There are over 10,000 wikidata tags in OSM that point at redirects in Wikidata





≔ Hel							: WD:R
Help page	Discussio	n	Read	Edit	View history	☆	More 🗸
		Translate this page					
For sitelin	ks to Wil	imedia redirect pages, see Help:Sitelinks#Linking to Wikimedia site pages.					
Other lang	uages:	Bahasa Indonesia	svensk	ka⊞ če	eština 🛥		
	3	It is <i>proposed</i> that this informational page become a policy or guideline . Ple on its talk page or the project chat. The following is a <i>proposed</i> Wikidata policy or guideline . The proposal may development, under discussion, or in the process of gathering consensus for	y still b	be in	discussion		
	0	This page in a nutshell: Redirects are used to provide stable identifiers. The deleted; links to them are cleaned up automatically. Use merge tools to creat	-		be		

Redirects in Wikidata are basically the same as redirects of normal wiki pages. However, they have a slightly different meaning and intention. The main reason why we need redirects is because we want to provide stable identifiers.

Creating redirects [edit]

Redirects are generally created when using tools to merge items. Please use these whenever possible. Redirects could also be created using Special:RedirectEntity or the 'wbcreateredirect' api module.

Use cases [edit]

Ξ

Redirects usually get created when two items are merged. This will happen when some user recognizes that they describe the same subject. If one item gets merged into another one, this item is useless and presumably can be deleted. However, there might still be references to this item's id, either from within Wikidata or even from other webpages. Therefore, we need a way to tell them that the same concept can now be found in the other item. This is what redirects do.

For instance, similar to Wikipedia when en:Haïti redirects to en:Haiti, Category:1911 in Morocco (Q18511155) redirects to Category:1911 in Morocco (Q9404406) (because some time in the past, two items had been created to represent the same concept, and they were merged, leaving a redirect).

Rules for redirecting [edit]

Redirecting is the preferred result of solving real duplicates after they got merged, where due to some error one or more site links are found in one or more items. Administrators should not delete one item and leave the other, but turn one into a redirect to the other

Wikidata

- OpenStreetMap element property added to Wikidata in April 2022
- OWL Places needs to be changed to start adding these statements to Wikidata

Freebase ID	€ /m/047d7j0	🖍 edit
	▶ 1 reference	•
		+ add value
museumPASSmusées ID	c4bb17e0-0503-41b0-9b83-3cfb09fd322a	🖍 edit
	▼ 0 references	
		+ add reference
		+ add value
National Historical Museums of Sweden ID	person/751C8E98-3033-438E-ADBD- BDC82AD21CE9	🎤 edit
	▼ 0 references	
		+ add reference
		+ add value
OpenStreetMap element	♦ node/9385524853	n edit
	▼ 0 references	
		+ add reference
		+ add value
Swedish Open Cultural Heritage URI	LSH/agents/35821	n edit
	▼ 0 references	+ add reference

+ add value



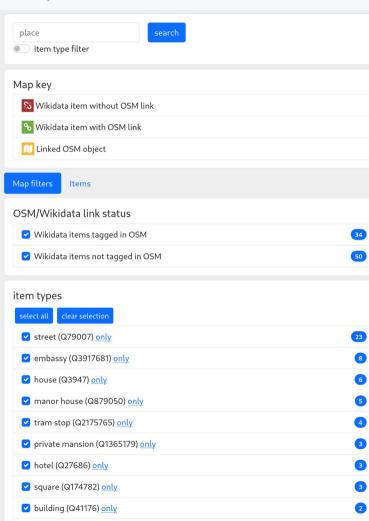
Demo



OWL Map



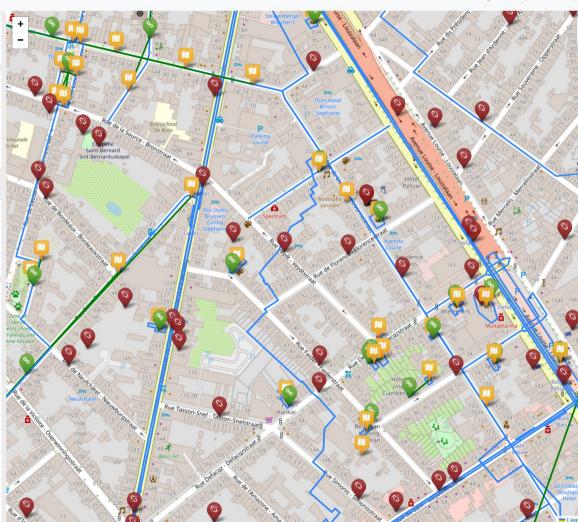
Map-based web interface for linking OSM to Wikidata



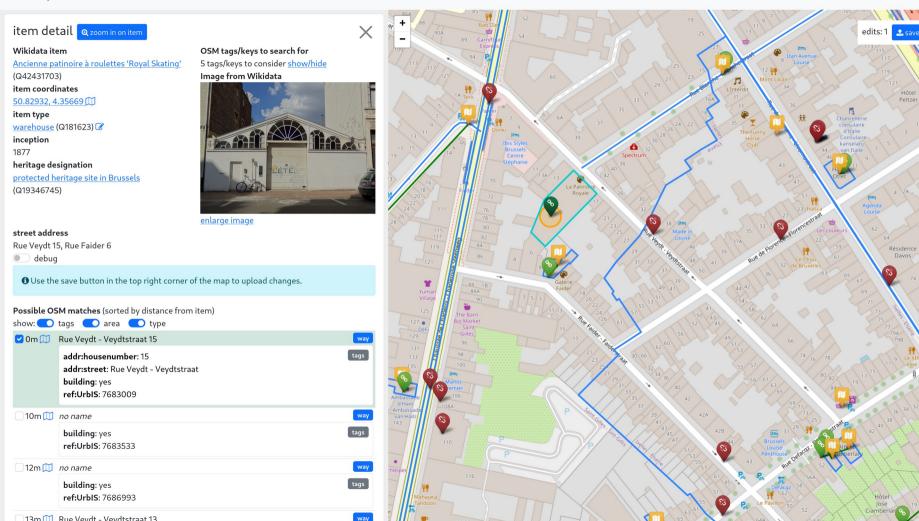
5

3

3

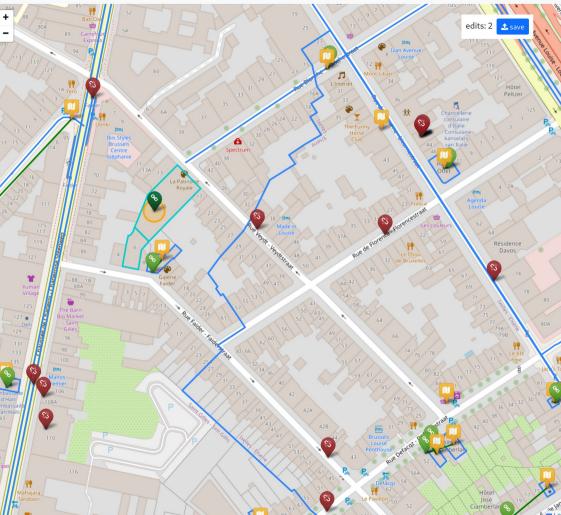


Peltzer



OWL Map Home Documentation

	jj
treet addro ue Veydt 1 debug	5, Rue Faider 6
🕄 Use the	e save button in the top right corner of the map to upload changes.
	i M matches (sorted by distance from item) tags 🚺 area 🚺 type
🖌 0m 🗍	Rue Veydt - Veydtstraat 15 way
	addr:housenumber: 15 tags addr:street: Rue Veydt - Veydtstraat building: yes ref:UrbIS: 7683009
🗌 10m 🛄	no name way building: yes tags ref:UrblS: 7683533
12m 🛄	no name way
	building: yes tags
13m 🔟	Rue Veydt - Veydtstraat 13 way
	addr:housenumber: 13 tags addr:street: Rue Veydt - Veydtstraat building: yes ref:UrbIS: 7685453
1 8m 🔟	Rue Faider - Faiderstraat 6 way
	addr:housenumber: 6 tags addr:street: Rue Faider - Faiderstraat building: yes ref:UrbIS: 7683135
23m 🛄	Rue Veydt - Veydtstraat 13A 🛛 🛶
	addr:housenumber: 13A tags addr:street: Rue Veydt - Veydtstraat building: yes
	ref:UrblS: 7687005



Edward Logout

Upload to OpenStreetMap

• Editing is live, changes will be uploaded to OpenStreetMap.

2 edits to upload

Changeset comment

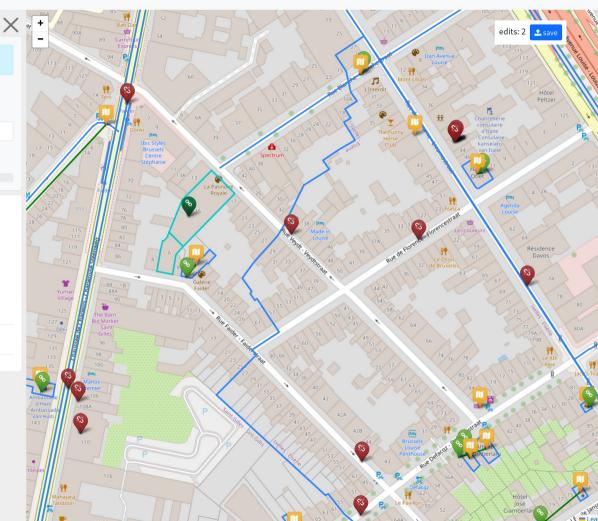
+wikidata

▲ Save to OpenStreetMap

Ancienne patinoire à roulettes 'Royal Skating' (Q42431703)

item type warehouse (Q181623) street address Rue Veydt 15, Rue Faider 6 OSM matches

> Om Rue Veydt - Veydtstraat 15 i add tag: wikidata=Q42431703 18m Rue Faider - Faiderstraat 6 i add tag: wikidata=Q42431703



l need your help



I need your help

- I'm Short of time to work on these tools
- Can I get help with hosting costs?
- Could I get paid to work on this?
- Should I find other volunteers to help me?



