OpenStreetMap and Wikidata: Awesome Together

State of the Map 2019

Eugene Alvin Villar (OSM: seav) Edward Betts (OSM: Edward)

CHAPTER 1

What is Wikidata?

Wikidata is a CCO-licensed structured knowledge base under the Wikimedia umbrella that contains over 60 million items.



■ Wikidata

Q Search Wikidata

(Q151510)



Heidelberg University

public research university in Heidelberg, Baden-Württemberg, Germany

Ruprecht-Karls-Universität Heidelberg | University of Heidelberg

Statements

instance of

public research university

1 reference

retrieved 16 March 2019

€ campus

0 references

part of

Aliance 4EU+

0 references

logo image



Logo University of Heidelberg.svg

1,727 × 1,700; 795 KB

1 reference

imported from Wikimedia project Romanian Wikipedia

students count

€ 30.787

point in time 1 December 2016

1 reference

reference URL https://de.wikipedia.org

/wiki/Liste_der_Hochschulen_in_Deutschland [2] https://www.uni-heidelberg.de/md/studium/download

/studierendenstatistik-ws201617.pdf ☐ retrieved 28 September 2017

5 December 2017

\$ 28,413

point in time 1 June 2017

1 reference

reference URL https://www.uni-heidelberg.de/md/zentral /studium/studierendenstatistik-ss2017v4.pdf [2]

language used

German

1 reference

imported from Wikimedia project Turkish Wikipedia

English

0 references

subsidiary

Heidelberg Graduate School of

Wikidata was intended to solve two things:

- The mess of interwiki links in the Wikipedias
- The duplication of data in Wikipedia infoboxes



Q Search Wikidata

(Q151510)



English

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/wiki/Liste_der_Hochschulen_in_Deutschland [2] https://www.uni-heidelberg.de/md/studium/download /studierendenstatistik-ws201617.pdf <a>™

retrieved 28 September 2017

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reference URL https://www.uni-heidelberg.de/md/zentral /studium/studierendenstatistik-ss2017v4.pdf <a>C retrieved 5 December 2017

language used

German

1 reference

imported from Wikimedia project Turkish Wikipedia

≜ English

0 references

subsidiary

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Now, all interwiki link data is stored in Wikidata (with some exceptions)...

Sitelinks

Wikipedia (108 entries)

- afwiki Heidelberg, Duitsland
- · alswiki Heidelberg
- amwiki yeganca
- arwiki هايدلبرغ
- astwiki Heidelberg
- azbwiki هايدلبرق
- azwiki Heydelberg
- barwiki Heidlbeag
- be_x_oldwiki Гайдэльбэрг

ki Heidelbera

- bewiki Гайдэльберг
- bgwiki Хайделберг
- brwiki Heidelberg
 bswiki Heidelberg

- Ibwiki Heidelberg
- liwiki Heidelberg
- Imowiki Heidelberg
- Itwiki Heidelbergas
- Ivwiki Heidelberga
- mgwiki Heidelberg
- mkwiki Хаіделберг
- mrwiki हायडेलबर्ग
- mswiki Heidelberg
- ndswiki Heidelbarg
- nlwiki Heidelberg (Duitsland)

Stadtverwaltung:

Oberbürgermeister:

Website:

- nnwiki Heidelberg
- nowiki Heidelberg
- nywiki Heidelberg



länglich, flussaufwärts sich zuspitzenden Talsohle, umgrenzt von Königstuhl (568 m) und Gaisberg (375 m). Der Neckar fließt hier von Ost nach West. Am rechten Neckarufer erhebt sich der Heitigenberg (445 m). Der Neckar mündet etwa 22 Kilometer nordwestlich, gemessen vom Ende der Talsohle, in Mannheim in den Rhein. Die im 20. Jahrhundert eingemeindeten Orte reichen über das Neckartal in die Bergstraße hinein, die am Rand des Odenwalds entlangführt. Die Stadt liegt in der Metropolregion Rhein-Neckar, einem 2,35 Millionen Einwohner zählenden Verdichtungsraum, der neben Teilen Südhessens und der rheinland-pfälzischen Vorderpfalz in Baden-Württemberg die beiden Stadtkreise Mannheim und Heidelberg sowie die westlichen und südlichen Gemeinden des Rhein-Neckar-Kreises umfasst.

Flächenaufteilung [Bearbeiten | Quelltext bearbeiten

4424 ha = 40,6 % Waldfläche 2860 ha = 26,3 % Landwirtschaftsfläche 253 ha = 2,3 % Wasserfläche Lage der Stadt Heidelberg in Baden-Württemberg

69117 Heidelberg

Eckart

www.heidelberg.de₽

Würzner (parteilos)

...and Wikipedia infoboxes can populate themselves from Wikidata.

La ciutat cota oituaua, parciaiment, ai imai ue vaii coticta del riu Neckar, que divideix la ciutat en dues meitats i transcorre d'est a oest per anar a desembocar al Rin uns 22 km més endavant, passada la ciutat veïna de Mannheim.

Al final d'aquesta vall hi trobem els turons que envolten el barri antic: el Königstuhl (568 m), el més alt, i el Gaisberg (375 m).

Barris

Heidelberg té 15 barris i 47 districtes municipals diferents. Alguns d'ells eren antics pobles veïns que, fins a l'any 1975, va anar absorbint la ciutat.

El barri antic

També anomenada "ciutat vella" per analogia amb el terme alemany corresponent, Altstadt. És el nucli històric de la ciutat i és on es troben la major part de les zones d'interès turístic. Està situat a la banda sud del Neckar, en l'estreta franja plana que hi ha entre la llera del riu i el turó del Köniastuhl.

En aguest barri hi trobem el castell de Heidelberg (Heidelberger Schloß), el pont vell (Alte Brücke), les esglésies com la Heiliggeistkirche i la Jesuitenkirche, l'antiga presó dels estudiants (Studentenkarzer) o les places com ara la Karlsplatz, el Kornmarkt, la Martkplatz o la Universitätsplatz.

És al llarg de tot el barri antic que, durant les quatre setmanes d'advent, s'hi instal·la el mercat de Nadal (Wehinachtsmarkt).

A l'extrem oest de l'Altstadt hi ha la plaça Bismarckplatz, que és el punt central del transport públic local i marca el final del barri.

Localització





49° 24' 44" N 8° 42' 36" F

Estat Alemanya Estat federat Baden-Württemberg Regió administrativa Karlsruhe Capital de Electorat del Palatinat	Població	
Estat federat Baden-Württemberg	Capital de	Electoral act
	Regió administrativa	Karlsruhe
Estat Alemanya	Estat federat	Baden-Württemberg
	Estat	Alemanya

160.601 (2017) Densitat 1.474,89 hab/km²

Geografia		
Part de	Àrea metropolitana Rin-Neckar, Karlsruhe i Q1496439 /	
Superfície	108,89 km²	
Banyat per	Neckar	
Altitud	114 m	
Limita amb	Mannheim	

Història i celebracions

Esdeveniment clau

Total

Siege of Heidelberg

Wikidata probably has the largest collection of linked IDs to other third-party databases, data sets, and knowledge bases.

Identifiers

German municipality key	US National Archives Identifier
€ 08221000 월	\$ 10044743 ₺
1 reference	0 references
imported from Wikimedia project English Wikipedia	
	German district key
GND ID	€ 08221
€ 4023996-2₺	0 references
1 reference	
imported from Wikimedia project German Wikipedia	EMLO location ID
	€ 9c3a2db5-866f-
VIAF ID	4132-9279-86f04bc5de5e ¹²
€ 144258029 ☑	0 references
1 reference	o references
imported from Wikimedia project German Wikipedia	Encyclopædia Universalis ID
	⊕ heidelberg ☑
Library of Congress authority ID	0 references
₱ n81096075™	o references
1 reference	DDB ID
imported from Wikimedia project German Wikipedia	⊕
	MOESL2XUAHY2FEVOAN7T3MFB7ITEIA
DMOZ ID	UR©
Regional/Europe/Germany/States	1 reference
/Baden-Württemberg/Localities	imported from Wikimedia project German Wikipedia
/Heidelberg/ [©]	
0 references	Encyclopædia Britannica Online ID
MusicBrainz area ID	0 references
€ eee2e250-e74b-4216-896d-	
ec1980ea123c ¹²	archINFORM location ID
1 reference	9 145□
stated in MusicBrainz	1 reference
	reference URL https://www.archinform.net/service
National Diet Library Auth ID	/wd_aiort.php ☑
A	stated in archINFORM

Everything

Search Loc.gov

Q

The Library of Congress > Linked Data Service > LC Name Authority File (LCNAF)

Heidelberg (Germany)

URI(s)

Wikidata has grown outside

its original purpose and is

fast becoming a central

data hub especially for

archives, and museums).

GLAM institutions

(galleries, libraries,

- http://id.loc.gov/authorities/names/n81096075

Instance Of

- MADS/RDF Geographic
- MADS/RDF Authority

Scheme Membership(s)

- Library of Congress Name Authority File

Collection Membership(s)

- Names Collection Authorized Headings
- LC Names Collection General Collection

Variants

- Geĭdel'berg (Germany)

Additional Information

- http://id.loc.gov/rwo/agents/n81096075

Close atching Concepts from Other Schemes

-Heidelberg **ヹ**

G Gen any--Heidelberg Region of

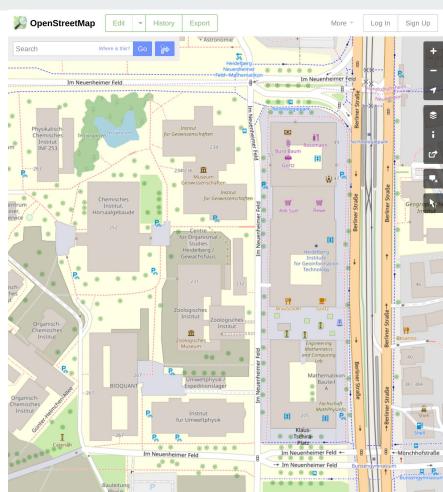
■ Heidelberg 🗗 🐧 Label from public data source Wikidata

Sources

- found: Heidelberg, die Nekarstadt ... 1951.
- found: Osip Mandel'shtam v Geĭdel'berge, 1994.

Wikidata data model

OpenStreetMap has nodes, ways, relations, tags, keys, values, roles, etc.



Wikidata has items, statements, properties, values, qualifiers, etc. ■ Wikidata

Q Search Wikidata

(Q151510)



English

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∮ campus

0 references

part of

Aliance 4EU+

0 references

logo image



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1,727 × 1,700; 795 KB

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/wiki/Liste_der_Hochschulen_in_Deutschland ☐
https://www.uni-heidelberg.de/md/studium/download

/studierendenstatistik-ws201617.pdf ☐

retrieved 28 September 2017

5 December 2017

\$ 28,413

point in time 1 June 2017

1 reference

reference URL https://www.uni-heidelberg.de/md/zentral/studium/studierendenstatistik-ss2017v4.pdf 🖸

retrieved 5 December 2017

language used

§ German

1 reference

imported from Wikimedia project Turkish Wikipedia

English

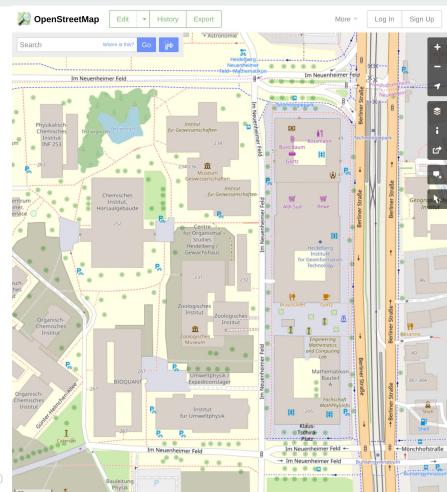
0 references

subsidiary

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Data modeling discussions on the Wikidata:Project chat page are actually quite similar to discussions on OSM's tagging mailing list.

(Both projects struggle with ontology issues because both projects are examples of folksonomies.)



Wikidata data is stored as a bunch of triples. The most basic triples in Wikidata are called *statements*.

This design is heavily based on W3C's Resource Description Framework [RDF].

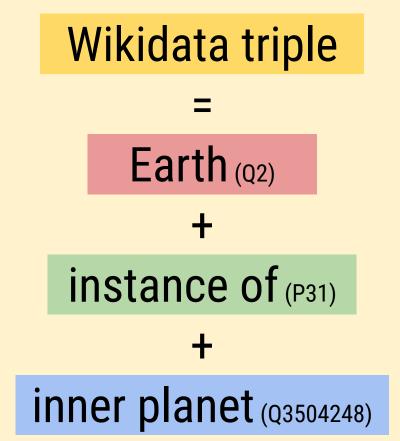
triple subject predicate object

Triples, subjects, predicates, and objects are represented as IRIs.

Earth has the IRI:

http://www.wikidata.org/entity/Q2

Or Q2 for short.



Triples themselves can be subjects of secondary triples, allowing us to qualify and add sourcing info. These secondary triples are called *qualifiers* and references, respectively.

Heidelberg (Q2966)

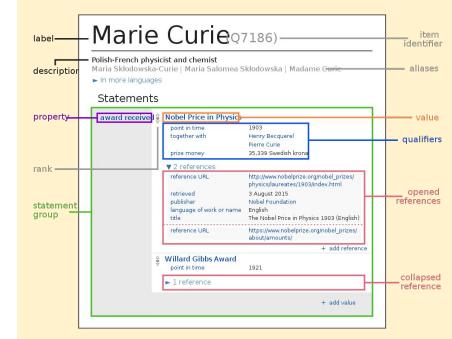
population (P1082)

150,335

point in time (P585)

2012-12-31

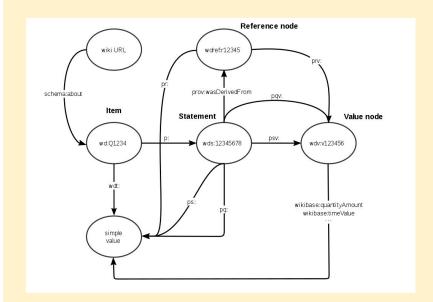
Shown here are how various triples, subjects, predicates, and objects related to Curie are represented in Wikidata, and the common terms Wikidatans use to refer to them depending on context.



Advanced: This is a more complete RDF data model for the main Wikidata space.

Useful when you need to fully understand the model or craft advanced queries.

https://www.mediawiki.org/wiki/ Wikibase/Indexing/RDF_Dump_Format



Aside: Wikidata also has lexemes (L-namespace) for lexicographic data, structured data for Wikimedia Commons (SDC) (M-namespace), and shape expressions (E-namespace).

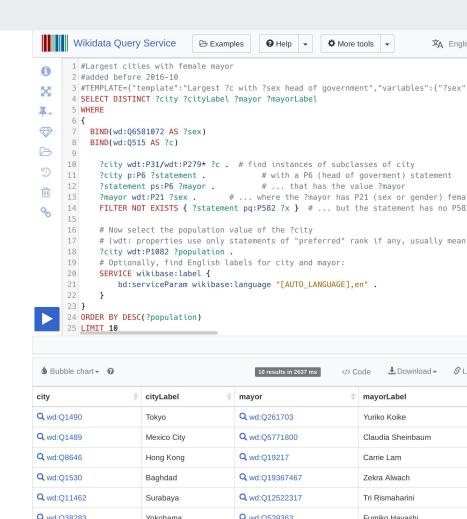
```
to go (L23773)
English verb
Forms go, goes, went, gone
                                             [expand] (4 forms, 6 statements)
Senses
      to move through space
                                             [expand] (3 statements)
      to work or function (properly); to move or
                                             [expand] (2 statements)
      perform as required
Statements
Etymology
                                             [edit]
                         Oxford Etymological Lexicon
             stated in
             edition
                         3rd
```

Wikidata Query Service

The Wikidata Query Service (WDQS) is the official API for querying data from Wikidata.

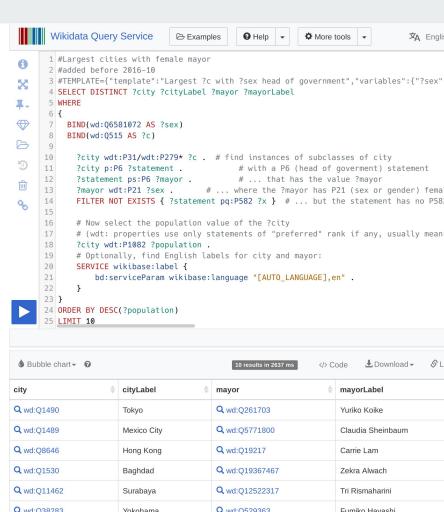
Think: Overpass API/Turbo for Wikidata.

https://query.wikidata.org

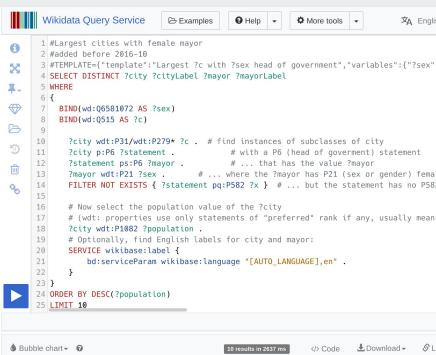


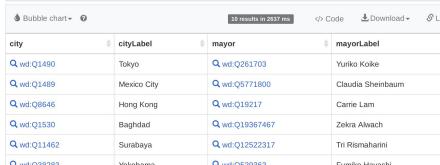
WDQS uses W3C's SPARQL as the query language.

https://www.w3.org/TR/sparql11-query/https://www.wikidata.org/wiki/Wikidata:SPARQL_tutorial



Examples and hands-on time!





Wikidata tools and apps

Monumental is a site that allows you to explore built heritage and learn more about monuments.

https://tools.wmflabs.org/monumental/

MONUMENTAL C- LOGIN



Heidelberg Castle

Heidelberger Schloss

Heidelberg · Karlsruhe Government Region · Baden-Württemberg · Germany

M 50 images and 28 subcategories

co schloss-heidelberg.de

33 languages









m Kulturdenkmal









EN DE :

IIII WIKIDATA

Wikipedia

Das Heidelberger Schloss ist eine der berühmtesten Ruinen Deutschlands und das Wahrzeichen der Stadt Heidelberg, Bis zu seiner Zerstörung im Pfälzischen Erbfolgekrieg war es die Residenz der Kurfürsten von der Pfalz. Seit den Zerstörungen durch die Soldaten Ludwigs XIV. 1689 und der Sprengung durch französische Pioniere am 6. September 1693 wurde das Heidelberger Schloss nur teilweise restauriert. Nachdem am 24. Juni 1764 Blitze die teilweise renovierte Anlage in Brand gesetzt hatten, wurde die Wiederherstellung aufgegeben. Die Schlossruine aus rotem Neckartäler Sandstein erhebt sich 80 Meter über dem Talgrund am Nordhang des Königstuhls und dominiert von dort das Bild der Altstadt. Der Ottheinrichsbau, einer der Palastbauten des Schlosses, zählt zu den bedeutendsten Bauwerken des deutschen Manierismus. In der kulturgeschichtlichen Epoche der Romantik wurde die Schlossruine zu einem Inbegriff einer vergangenen und

bewundernswerten Epoche stilisiert. Es zählt heute zu den meistbesuchten touristischen Sehenswürdigkeiten Europas.

READ MORE ON WIKIPEDIA

Properties

General data

château castle

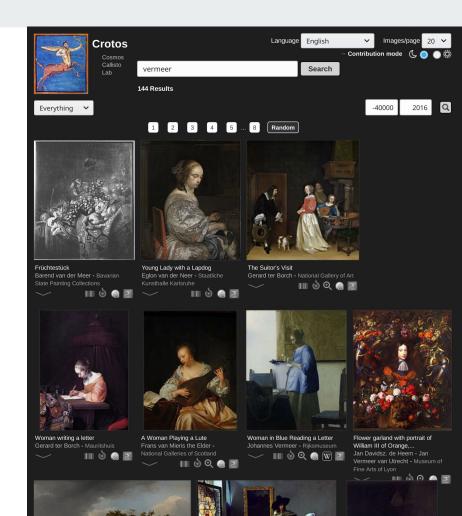
sandstone

Gothic architecture

Renaissance architecture

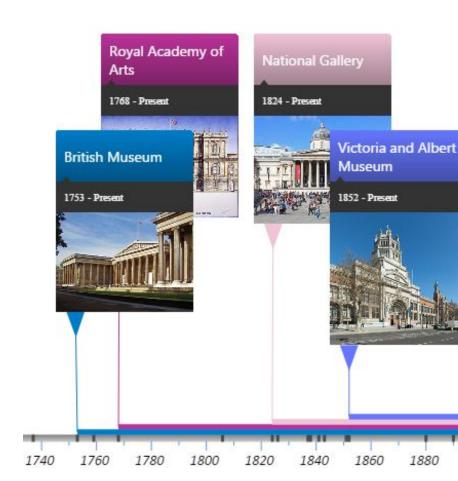
Crotos is a search and display engine for visual artworks, based on Wikidata and using Wikimedia Commons files.

https://http://zone47.com/crotos/



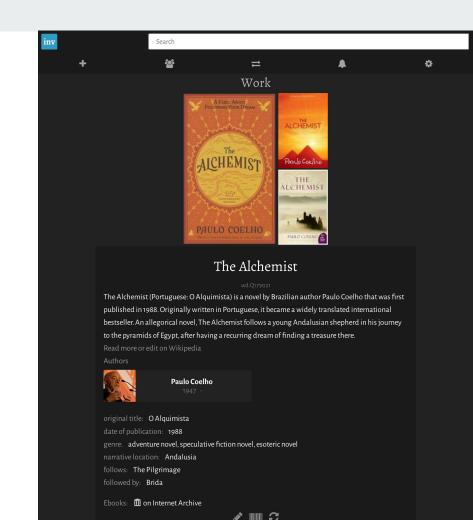
Histropedia allows you to generate interactive timelines with events linked to Wikipedia articles.

http://histropedia.com/



Inventaire: keep an inventory of your books!

https://inventaire.io/



More tools are listed on Wikidata:

https://www.wikidata.org/wiki/ Wikidata:Tools/Visualize_data



Q Search Wikidata

Wikidata:Tools/Visualize data



Deuts i aliguages - veus i a si veus ka • · čeština □ · македонски □ · русский • · атими • · Ниш • · 日本語■

Ancient intellectual network

Dataviz map of the relationships between master and student from Socrates to the end of the Hellenistic Period.

Art Browser [™]

OpenArtBrowser invites you to browse through the world of arts, enjoy beautiful artworks and learn interesting things. We provide paintings, drawings and sculptures all over the world and from many periods. For each artwork, metadata and related artworks are shown. Related means, that the artworks share the same artist, movement, or even motif.



Art Browser

CHAPTER 2

Linked Open Data

First: How OSM and Wikimedia benefit from each other

OSM has been used to create maps to illustrate Wikipedia articles and populate Wikimedia Commons.



Q Search Wikipedia



This is an old revision of this page, as edited by 80N (talk | contribs) at 08:39, 20 March 2006 (Add map from openstreetmap.org). The present address (URL) is a permanent link to this revision, which may differ significantly from the current revision.



History

The early history of Weybridge was simply as a river crossing. In 1537 it became the location of Oatlands Palace built by Henry VIII. When it was demolished in 1650, bricks from its walls helped to line the then new Wey Navigation. Part of the original site of the Palace is now occupied by Oatlands Park Hotel.

OpenStreetMap.org)

At the bottom of Monument Hill, close to the town centre is a monument to the Duchess of York, erected by public subscription in 1820 from the remains of the original Seven Dials Monument that stood in St Martin's Lane London until 1773.

The famous former Brooklands Aerodrome and Race Circuit is located here, just south of the railway station. It is now the location for the Brooklands Museum. Brooklands was also the home

OSM has been used to create maps to illustrate Wikipedia articles and populate Wikimedia Commons.



OSM powers the Wikimedia Foundation's **Kartotherian** map tile service, which is used by the **Kartographer** MediaWiki extension and almost all other interactive maps on the Wikimedia projects.

Centro Storico is just as full of historic monuments as it is of designer boutiques and showrooms, restaurants and caffes - you will find almost all one comes to find in Milan for within not more than a quarter's walk.

The defunct old Milan district of "Centro Storico" included a broader area; the area covered in this guide corresponds to the Quartiere 101 - Duomo of the present-day Zona 1.

^ Get in

To get to the Centro Storico usually means getting to its very central point - the Piazza Duomo. Two metro lines cross ride underneath it, and many trams stop right next to the Piazza. The only train station within the Centro Storico is Milano Cadorna, on its western outskirts.

From Milano Malpensa Airport

Take the Malpensa Express to Milano Cadorna station and from there simply enjoy the Centro Storico by walking eastwards, or take the metro for the

Duomo M1 M3 . Trams 1 and 27 will also take you into the heart of

the Centro Storico, over a route with some memorable views.

From Linate Airport

The bus lines 73 and X73 connect the Linate Airport with Piazza San Babila in the east of the Centro Storico, which has a station on the M1 network.

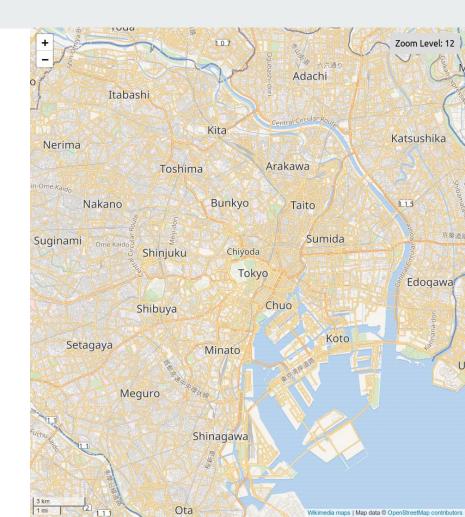


Map of Milan/Centro Storico

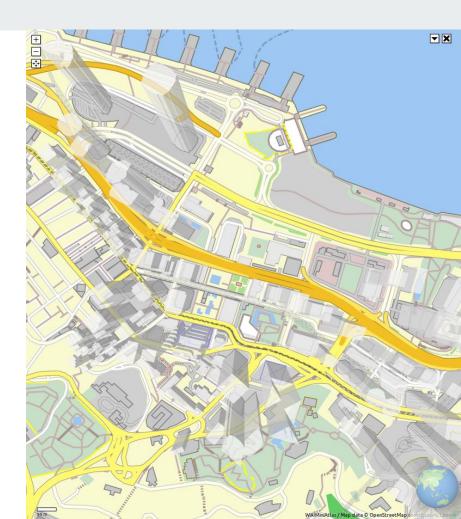


The Duomo metro station on M1 and

The Wikimedia Foundation released internationalized map tiles for Kartotherian, leveraging OSM's name:*=* tags.



WikiMiniAtlas, an older MediaWiki plugin still in use in many Wikipedias, is also powered by OSM data, including 3D building data.



Cpurge · Help

The OSM Wiki is powered by MediaWiki, the wiki engine developed by Wikimedia, and this also provides access to Wikimedia Commons images.



Main Page The map Map Features Contributors Help Blogs Shop Donations

Tools

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

Recent changes

Tag:man made=adit

Available languages - Tag:man made=adit · čeština · Deutsch · English · español · français · polski · português · русский · 🖯

Read View source View history

An wadit is a (nearly) horizontal entrance to the underground, by which resources can be extracted or a mine can be entered, ventilated or drained of water. The visible portal of the adit is mapped as a node.

Tagging

man made=adit

Discussion

The adit itself. In case of a node, it is describing the entrance point at the surface.

resource=*

The resource that is or was extracted in the mine. Visit the resources page to view a list of common values.

operator=*

The operator of the adit, usually the operator of the surrounding mine.

length=*

length of the adit in meters (or other specified unit).

name=*

The name of the adit

direction=*

pointing from the gallery outwards (useful only if the adit is mapped as a node)

All of these tags may coexist on a single node.

Rendering

Common symbol for an operating mine; hammer and pick



Description

man ma

A type of entrance to an underground mine which is horizontal or nearly horizontal.

Used on these elements







Useful combination

- name=*
- operator=*
- resource=*
- disused=*

See also

- man made=mineshaft
- historic=mine
- natural=cave entrance

Wikidata

Q58917

Status: in use

taginfo [More...]

97971 0.65%

The OpenStreetMap Foundation has derived its Local Chapters agreement, Trademark Policy, and Terms of Use from corresponding documents from the Wikimedia Foundation.





Trademark Policy

Contents [show]

Adopted by the OSMF board on January the 7th 2018.

Introduction

Why does OpenStreetMap have marks?

The OpenStreetMap marks represent OpenStreetMap and its work to bring open map data to the entire world. When users see the OpenStreetMap name and logo, they should be confident that they are looking at a high quality map that is the result of the rigorous and comprehensive collaboration process of OpenStreetMap. Trademark protection helps reinforce that connection.

What are the goals of this trademark policy?

The goodwill supporting the OpenStreetMap marks has been generated by a prolific and passionate volunteer community. The OpenStreetMap Foundation has prepared this policy to preserve and protect that goodwill by ensuring that uses of the marks are consistent with OpenStreetMap's mission and promote the OpenStreetMap movement.

How is this trademark policy different from most trademark policies?

This trademark policy seeks to make trademark licensing as easy as possible for the contributors who created OpenStreetMap, by making explicit that many uses do not require a trademark licence, and by empowering them to use OpenStreetMap's marks without a trademark licence for community-focused

Why link OSM and Wikidata?

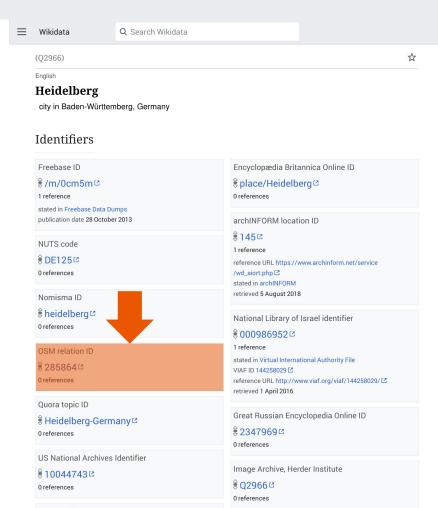
Tim Berners-Lee, the inventor of the World Wide Web and initiator of the W3C Linked Data project, suggested a 5 star deployment scheme for Linked Open Data.



- 1. On the Web
- 2. Machine-readable
- 3. Open data format
- 4. In RDF (use IRIs)
- 5. Linked to other datasets

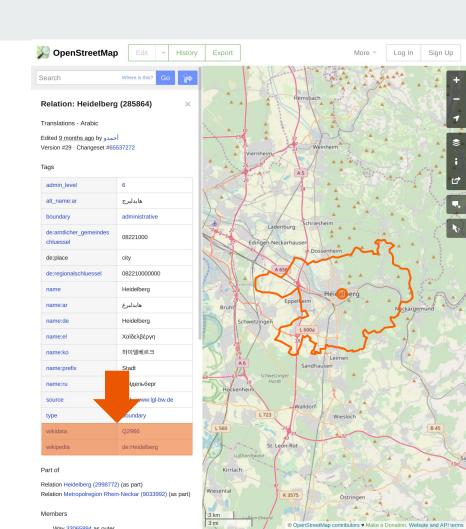


Wikidata items on places can link to OSM relations using the OSM relation ID (P402) property.



OSM objects can link to corresponding Wikipedia articles and Wikidata items using the wikipedia=* and wikidata=* tags respectively.

There are also secondary tags like brand:wikidata=* and architect:wikidata=*.



Ontology: Wikidata items about features can link to "equivalent" OSM features using the OSM tag or key (P1282) property.

0 references

light source

0 references

sea mark

0 references

building

0 references

image



Nantucket light 1.jpg

589 × 1,040; 127 KB

0 references



Lindau-Hafen-Sonnenuntergang.jpg

1,786 × 1,337; 293 KB

0 references



0 references

topic's main category

Category:Lighthouses

0 references

history of topic

History of lighthouses

0 references

described by source

Nordisk familjebok

0 references

Armenian Sovie cyclopedia

OSM tag or key

∃ Tag:man_made=lighthouse

0 references

equivalent class

http://dbpedia.org/ontology

/Lighthouse 12

described at URL http://mappings.dbpedia.org /index.php/OntologyClass:Lighthouse ☑

retrieved 16 June 2015

1 reference

imported from Wikimedia project DBpedia

has part

light house

0 references

properties for this type

Cpurge · Help

Ontology: Tag definitions on the OSM Wiki can link to "equivalent" Wikipedia articles and Wikidata items.

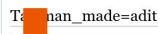


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An wadit is a (nearly) horizontal entrance to the underground, by which resources can be extracted or a mine can be entered, ventilated or drained of water. The visible portal of the adit is mapped as a node.

Tagging

man made=adit

Discussion

The adit itself. In case of a node, it is describing the entrance point at the surface.

resource=*

The resource that is or was extracted in the mine. Visit the resources page to view a list of common values.

operator=*

The operator of the adit, usually the operator of the surrounding mine.

length=*

length of the adit in meters (or other specified unit).

name=*

The name of the adit

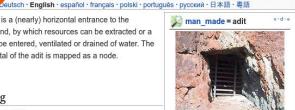
direction=*

pointing from the gallery outwards (useful only if the adit is mapped as a node)

All of these tags may coexist on a single node.

Rendering

Common symbol for an operating mine; hammer and pick



Description

Read View source View history

Available languages - Tag:man made=adit

A type of entrance to an underground mine which is horizontal or nearly horizontal.

Used on these elements







Useful combination

- name=*
- operator=*
- resource=*
- disused=*



Wikidata

Q58917

Status: in use

taginfo [More...]

7971 0.65%

Wikimedia maps can show geometry from OSM.

- ► Squares in Heidelberg (11 C, 4 F)
- ► Streets in Heidelberg (73 C, 54 F)

Т

- ► Things named after Heidelberg (8 C, 3 F)
- ► Transport in Heidelberg (19 C, 32 F)
- ► Tupper Scrapbooks volume 36 Heidelberg (7 F)

U

► United States Army in Heidelberg (7 C, 9 F)

V

▶ Views of Heidelberg (6 C, 26 F)

Pages in category "Heidelberg"

This category contains only the following page.

Heidelberg

Media in category "Heidelberg"

The following 200 files are in this category, out of 366 total.

(previous page) (next page)





2011-03-24-184658 ... 2011-03-25-184627 .. 1,200 × 900; 354 KB 1,200 × 900; 271 KB

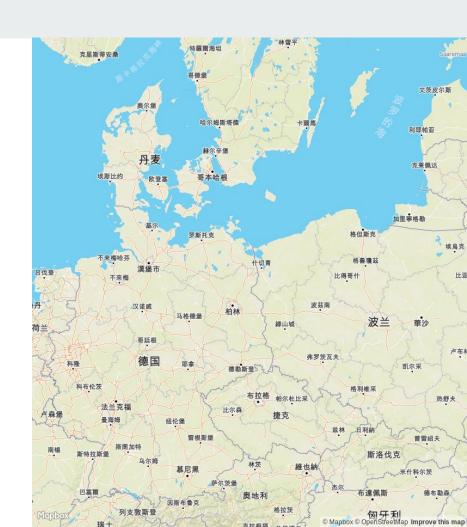




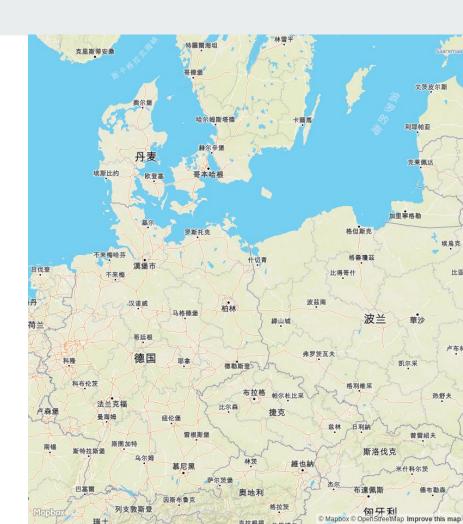


Mapbox and MapTiler uses Wikidata to help with the localization of their map products.

If there are missing name:*=* tags on an OSM object, they pull labels from corresponding Wikidata entries.



For example, Heidelberg has 13 and 5 name:*=* tags in its place=city node and admin boundary relation, while Wikidata has 123 labels for the item.



User tchaddad recently finished a GSoC project to integrate wikidata=* tags into Nominatim. This project is intended to improve the search results by looking at Wikidata for additional relevance data.





tchaddad's diary

Recent diary entries

End of Project Summary

Posted by tchaddad on 2 September 2019 in English (English)

Summer has come to an end, and so this post is to wrap up the progress made over the course of the "Add Wikidata to Nominatim" project. Overall, the main contributions are documented in the 4 preceding diary posts, and in:

- · updated steps for extracting Wikipedia data and calculating importance scores
- a new script for extracting Wikidata items and place types

These new processes have made big improvements in several OSM-to-Wikipedia comparison metrics as compared to equivalent numbers from 2013 (when the previous Wikipedia snapshot was taken).

Improved Numbers

For context, the number of Wikipedia articles in the top 40 languages in 2013 was 80,007,141, and the number of Wikipedia articles for the same 40 languages in 2019 was 142,620,084 - an increase of ~78%.

Within these article records, in 2013 it was possible under the old processing steps to attach latitude and longitude numbers to 692,541 articles, while in 2019 it was possible to enrich 7,755,392 records with location information - an increase of ~1,020%. This particular statistic largely reflects an improvement in the source Wikipedia / Wikidata projects.

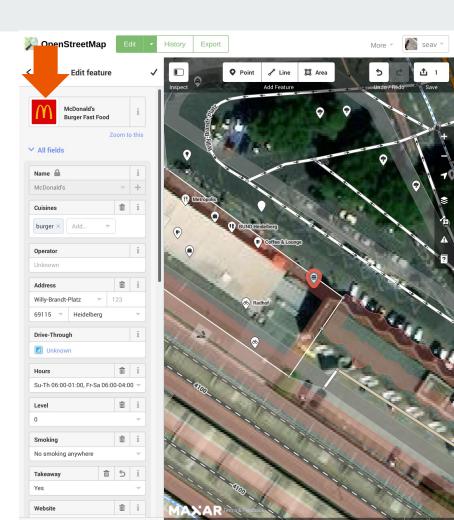
More exciting, with the old method of linking Wikipedia articles to osm_ids, it was possible to link 313,606 Wikipedia article importance scores to osm_ids, but with the new method that uses both Wikidata Item ids, and Wikipedia pages together, the number of Wikipedia article importance scores that can be linked has risen to 4,730,972 - an increase of ~1,409%. This increase is due to both the large number of Wikipedia and Wikidata tags added by OSM contributors since 2013, as well as the inclusion of Wikidata item ids in the linking process for the first time via this project.

Future Work

Although the project technically concludes today, there are obviously always areas of future work where more gains can be made. These include:

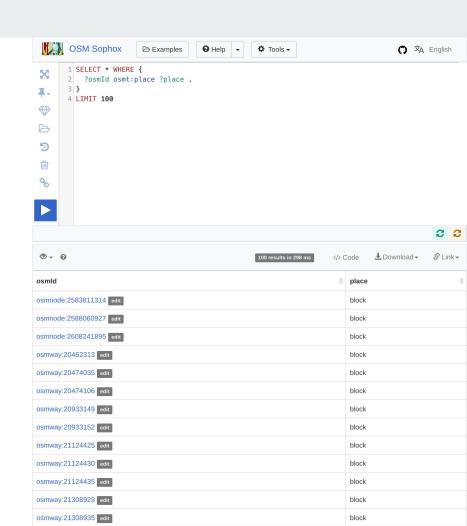
The Name Suggestion Index uses Wikidata to provide brand identity and improved tagging in iD and Vespucci.

https://github.com/osmlab/ name-suggestion-index

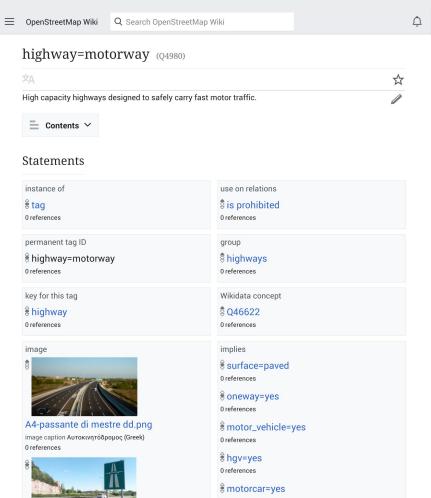


Yurik Astrakhan (OSM: nyuriks) created <u>Sophox</u>, a SPARQL endpoint for OSM. This service can use RDF *federation* to also query linked Wikidata items.

https://wiki.osm.org/Sophox https://sophox.org/



Addendum: The OSM Wiki has the Wikibase extension installed. This is intended to provide better multilingual machinereadable data on OSM's tags.



CHAPTER 3

OSM Wikidata Matcher

(see second part of the presentation)