




Wikidata + OpenStreetMap



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CHAPTER 1

What is Wikidata?

Wikidata is a CC0-licensed structured knowledge base under the Wikimedia umbrella that contains over 60 million items.



Wikidata Search Wikidata

(Q1186) Download PDF Watch

English

Kerala

Indian state



Keralam | IN-KL | God's Own Country | Land of coconuts

In more languages

Malayalam	കേരളം	ദക്ഷിണേന്ത്യയിലെ ഒരു സംസ്ഥാനം	കേരളം ദൈവത്തിന്റെ സ്വന്തം നാട്
French	Kerala	état de l'Inde	
Hindi	केरल	भारतीय राज्य	

All entered languages

Statements

instance of state of India 1 reference reference URL https://www.lonelyplanet.com/india/kerala title Welcome to kerala (English) retrieved 23 February 2018	female population 17,378,649 point in time 2011 1 reference stated in 2011 census of India reference URL http://www.censusindia.gov.in/pca/DDW_PCA000_2011_IndiaStatelist.xlsx	locator map image  Kerala in India (claimed and disputed hatched).svg 1,500 × 1,615; 1.65 MB 0 references
part of India 0 references	located in time zone UTC+05:30 1 reference reference URL https://time.is/Kerala title Time zone (English) retrieved 23 February 2018	location map  India Kerala location map.svg 827 × 1,205; 135 KB 1 reference imported from Wikimedia project Russian Wikipedia
inception 1 November 1956 1 reference reference URL http://www.stateofkerala.in/kerala_facts/kerala_history.php retrieved 15 February 2018	shares border with Tamil Nadu 0 references Karnataka 0 references Puducherry 0 references	
official name Kerala (English) 0 references കേരളം (Malayalam) 0 references	coextensive with Kerala 0 references	
native label കേരളം (Malayalam) 0 references	replaces Madras State 1 reference inferred from Madras State	
official language Malayalam 1 reference reference URL	language used	

Wikidata was intended to solve two things:

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

Wikidata

Search Wikidata

(Q1186)

Download PDF Watch

English

Kerala

Indian state



Keralam | IN-KL | God's Own Country | Land of coconuts

In more languages

Malayalam	കേരളം	ദക്ഷിണേന്ത്യയിലെ ഒരു സംസ്ഥാനം	കേരളം ദൈവത്തിന്റെ സ്വന്തം നാട്
French	Kerala	état de l'Inde	
Hindi	केरल	भारतीय राज्य	

All entered languages

Statements

<p>instance of</p> <p>state of India</p> <p>1 reference</p> <p>reference URL</p> <p>https://www.lonelyplanet.com/india/kerala</p> <p>title Welcome to kerala (English)</p> <p>retrieved 23 February 2018</p>	<p>female population</p> <p>17,378,649</p> <p>point in time 2011</p> <p>1 reference</p> <p>stated in 2011 census of India</p> <p>reference URL</p> <p>http://www.censusindia.gov.in/pca/DDW_PCA000_2011_Indiastatedist.xlsx</p>	<p>locator map image</p> <p></p> <p>Kerala in India (claimed and disputed hatched).svg</p> <p>1,500 × 1,615; 1.65 MB</p> <p>0 references</p>
<p>part of</p> <p>India</p> <p>0 references</p>	<p>located in time zone</p> <p>UTC+05:30</p> <p>1 reference</p> <p>reference URL https://time.is/Kerala</p> <p>title Time zone (English)</p> <p>retrieved 23 February 2018</p>	<p>location map</p> <p></p> <p>India Kerala location map.svg</p> <p>827 × 1,205; 135 KB</p> <p>1 reference</p> <p>imported from Wikimedia project Russian Wikipedia</p>
<p>inception</p> <p>1 November 1956</p> <p>1 reference</p> <p>reference URL</p> <p>http://www.stateofkerala.in/kerala_facts/kerala_history.php</p> <p>retrieved 15 February 2018</p>	<p>shares border with</p> <p>Tamil Nadu</p> <p>0 references</p> <p>Karnataka</p> <p>0 references</p> <p>Puducherry</p> <p>0 references</p>	
<p>official name</p> <p>Kerala (English)</p> <p>0 references</p> <p>കേരളം (Malayalam)</p> <p>0 references</p>	<p>coextensive with</p> <p>Kerala</p> <p>0 references</p>	
<p>native label</p> <p>കേരളം (Malayalam)</p> <p>0 references</p>	<p>replaces</p> <p>Madras State</p> <p>1 reference</p> <p>inferred from Madras State</p>	
<p>official language</p> <p>Malayalam</p> <p>1 reference</p> <p>reference URL</p>	<p>language used</p>	

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

Sitelinks

Wikipedia (108 entries)

- [afwiki Heidelberg, Duitsland](#)
- [alswiki Heidelberg](#)
- [amwiki هايدلبرغ](#)
- [arwiki هايدلبرغ](#)
- [astwiki Heidelberg](#)
- [azbwiki هايدلبرق](#)
- [azwiki Heydelberq](#)
- [barwiki Heidlbeag](#)
- [be_x_oldwiki Гайдэльбэрг](#)
- [bewiki Гайдэльберг](#)
- [bgwiki Хайделберг](#)
- [brwiki Heidelberg](#)
- [bswiki Heidelberg](#)
- [cawiki Heidelberg](#)
- [lbwiki Heidelberg](#)
- [liwiki Heidelberg](#)
- [lmowiki Heidelberg](#)
- [ltwiki Heidelberggas](#)
- [lvwiki Heidelberga](#)
- [mgwiki Heidelberga](#)
- [mkwiki Хайделберг](#)
- [mrwiki हायडेलबर्ग](#)
- [mswiki Heidelberg](#)
- [ndswiki Heidelberg](#)
- [nlwiki Heidelberg \(Duitsland\)](#)
- [nnowiki Heidelberg](#)
- [nowiki Heidelberg](#)
- [nywiki Heidelberg](#)

Buchmarken
Als Zitat verwenden
Drucken

In anderen Sprachen 

- العربية
- Cebuano
- English
- Español
- Bahasa Indonesia
- Русский
- اردو
- Winaray
- 中文

 98 weitere

 Links bearbeiten

Neckars vor dessen Austritt aus dem Odenwald in einer 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 Heiligenberg (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 [\[Bearbeiten \]](#) [\[Quelltext bearbeiten \]](#)

10884 ha	Gesamtfläche
4424 ha = 40,6 %	Waldfläche
2860 ha = 26,3 %	Landwirtschaftsfläche
253 ha = 2,3 %	Wasserfläche

Stadtverwaltung: 69117 Heidelberg
Website: www.heidelberg.de
Oberbürgermeister: Eckart Würzner (parteilos)

Lage der Stadt Heidelberg in Baden-Württemberg



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

La ciutat està situada, parcialment, al marge veïl estreta 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 Königstuhl.

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

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.

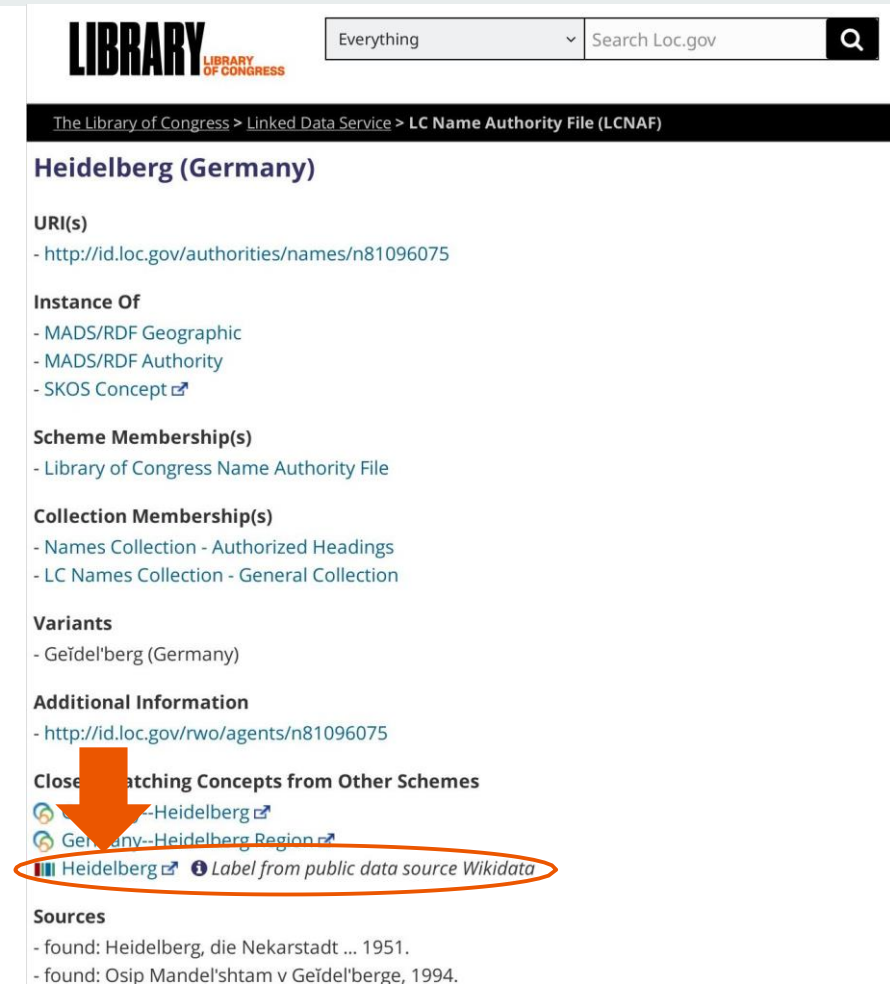
Localització	
	
49° 24′ 44″ N, 8° 42′ 36″ E	
Estat	 Alemanya
Estat federat	 Baden-Württemberg
Regió administrativa	 Karlsruhe
Capital de	 Electorat del Palatinat
Població	
Total	160.601 (2017)
• Densitat	1.474,89 hab/km²
Geografia	
Part de	 Àrea metropolitana Rin-Neckar, Karlsruhe i Q1496439
Superfície	108,89 km²
Banyat per	 Neckar
Altitud	114 m
Limita amb	 Mannheim
Història i celebracions	
Esdeveniment clau	 Siege of Heidelberg

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

Identifiers

<p>German municipality key</p> <p> 08221000 </p> <p>1 reference</p> <p>imported from Wikimedia project English Wikipedia</p>	<p>US National Archives Identifier</p> <p> 10044743 </p> <p>0 references</p>
<p>GND ID</p> <p> 4023996-2 </p> <p>1 reference</p> <p>imported from Wikimedia project German Wikipedia</p>	<p>German district key</p> <p> 08221 </p> <p>0 references</p>
<p>VIAF ID</p> <p> 144258029 </p> <p>1 reference</p> <p>imported from Wikimedia project German Wikipedia</p>	<p>EMLO location ID</p> <p> 9c3a2db5-866f-4132-9279-86f04bc5de5e </p> <p>0 references</p>
<p>Library of Congress authority ID</p> <p> n81096075 </p> <p>1 reference</p> <p>imported from Wikimedia project German Wikipedia</p>	<p>Encyclopædia Universalis ID</p> <p> heidelberg </p> <p>0 references</p>
<p>DMOZ ID</p> <p> Regional/Europe/Germany/States/Baden-Württemberg/Localities/Heidelberg </p> <p>0 references</p>	<p>DDB ID</p> <p> MQESL2XUAHY2FEVOAN7T3MFB7ITEIAUR </p> <p>1 reference</p> <p>imported from Wikimedia project German Wikipedia</p>
<p>MusicBrainz area ID</p> <p> eee2e250-e74b-4216-896d-ec1980ea123c </p> <p>1 reference</p> <p>stated in MusicBrainz</p>	<p>Encyclopædia Britannica Online ID</p> <p> place/Heidelberg </p> <p>0 references</p>
<p>National Diet Library Auth ID</p> <p> ----- </p>	<p>archINFORM location ID</p> <p> 145 </p> <p>1 reference</p> <p>reference URL https://www.archinform.net/service/wd_aiort.php </p> <p>stated in archINFORM</p>

Wikidata has grown outside its original purpose and is fast becoming a central data hub especially for GLAM institutions (galleries, libraries, archives, and museums).



LIBRARY LIBRARY OF CONGRESS

Everything Search Loc.gov

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

Heidelberg (Germany)

URI(s)
- <http://id.loc.gov/authorities/names/n81096075>

Instance Of
- MADS/RDF Geographic
- MADS/RDF Authority
- SKOS Concept

Scheme Membership(s)
- Library of Congress Name Authority File

Collection Membership(s)
- Names Collection - Authorized Headings
- LC Names Collection - General Collection

Variants
- Geïdel'berg (Germany)

Additional Information
- <http://id.loc.gov/rwo/agents/n81096075>

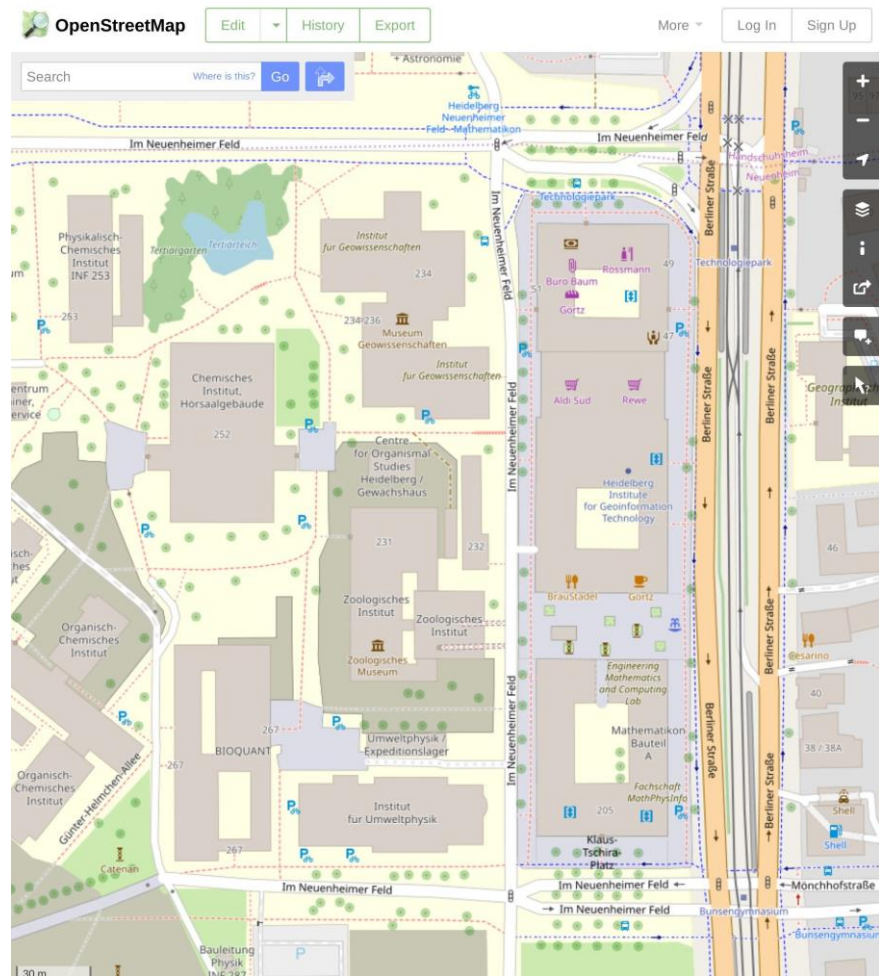
Close Matching Concepts from Other Schemes

- [Heidelberg](#)
- [Germany--Heidelberg Region](#)
- [Heidelberg](#) **i** Label from public data source Wikidata

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

Wikidata data model

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



© OpenStreetMap contributors,
ODbL 1.0

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

Wikidata

(Q151510) ☆


English

Heidelberg University

public research university in Heidelberg, Baden-Württemberg, Germany

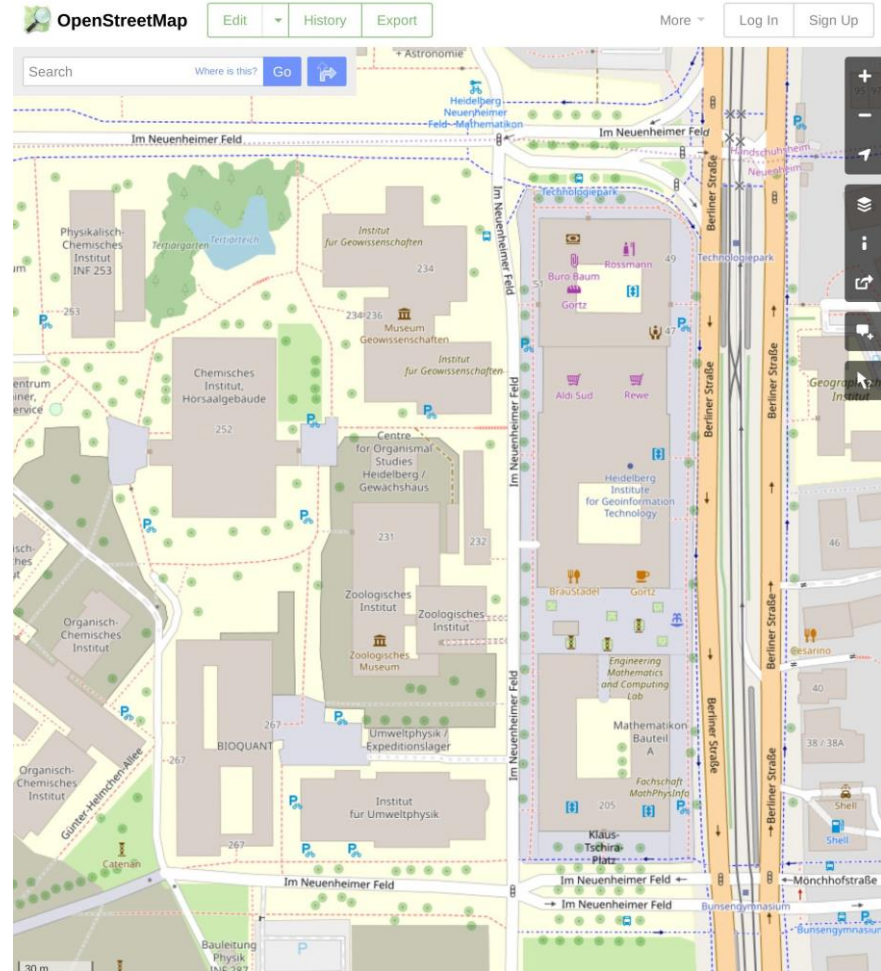
Ruprecht-Karls-Universität Heidelberg | University of Heidelberg

Statements

<p>instance of</p> <p>public research university</p> <p>1 reference retrieved 16 March 2019</p> <p>campus</p> <p>0 references</p>	<p>students count</p> <p>30,787</p> <p>point in time 1 December 2016</p> <p>1 reference</p> <p>reference URL https://de.wikipedia.org/wiki/Liste_der_Hochschulen_in_Deutschland https://www.uni-heidelberg.de/md/studium/download/studierendenstatistik-ws201617.pdf ↗</p> <p>retrieved 28 September 2017</p> <p>5 December 2017</p>
<p>part of</p> <p>Aliance 4EU+</p> <p>0 references</p>	<p>28,413</p> <p>point in time 1 June 2017</p> <p>1 reference</p> <p>reference URL https://www.uni-heidelberg.de/md/zentral/studium/studierendenstatistik-ss2017v4.pdf ↗</p> <p>retrieved 5 December 2017</p>
<p>logo image</p>  <p>Logo University of Heidelberg.svg</p> <p>1,727 × 1,700; 795 KB</p> <p>1 reference</p> <p>imported from Wikimedia project Romanian Wikipedia</p>	<p>language used</p> <p>German</p> <p>1 reference</p> <p>imported from Wikimedia project Turkish Wikipedia</p> <p>English</p> <p>0 references</p>
	<p>subsidiary</p> <p>Heidelberg Graduate School of</p>

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.

Wikidata triple

=

Earth(Q2)

+

instance of(P31)

+

inner planet(Q3504248)

—

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.

The image shows a Wikidata entry for Marie Curie (Q7186) with various annotations. The entry includes a label, a description, and a list of statements. The 'award received' property is highlighted, showing a value of 'Nobel Prize in Physics' with qualifiers for 'point in time', 'together with', and 'prize money'. A reference is shown for the Nobel Prize, and another reference for the 'Willard Gibbs Award' is shown as collapsed.

Annotations on the left side of the image:

- label: Marie Curie (Q7186)
- description: Polish-French physicist and chemist
- property: award received
- rank: (indicated by a small 'r' icon)
- statement group: (indicated by a green box)

Annotations on the right side of the image:

- item identifier: (Q7186)
- aliases: Maria Skłodowska-Curie | Maria Salomea Skłodowska | Madame Curie
- value: Nobel Prize in Physics
- qualifiers: point in time (1903), together with (Henry Becquerel, Pierre Curie), prize money (35,339 Swedish krona)
- opened references: (indicated by a red box around the reference details)
- collapsed reference: Willard Gibbs Award

Wikidata entry content:

Marie Curie (Q7186)

Polish-French physicist and chemist

Maria Skłodowska-Curie | Maria Salomea Skłodowska | Madame Curie

► In more languages

Statements

award received **Nobel Prize in Physics**

point in time 1903

together with Henry Becquerel, Pierre Curie

prize money 35,339 Swedish krona

▼ 2 references

reference URL http://www.nobelprize.org/nobel_prizes/physics/laureates/1903/index.html

retrieved 3 August 2015

publisher Nobel Foundation

language of work or name English

title The Nobel Prize in Physics 1903 (English)

reference URL https://www.nobelprize.org/nobel_prizes/about/amounts/

+ add reference

Willard Gibbs Award

point in time 1921

► 1 reference

+ add value

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

- [S1] to move through space [expand] (3 statements)
- [S2] to work or function (properly); to move or perform as required [expand] (2 statements)

Statements

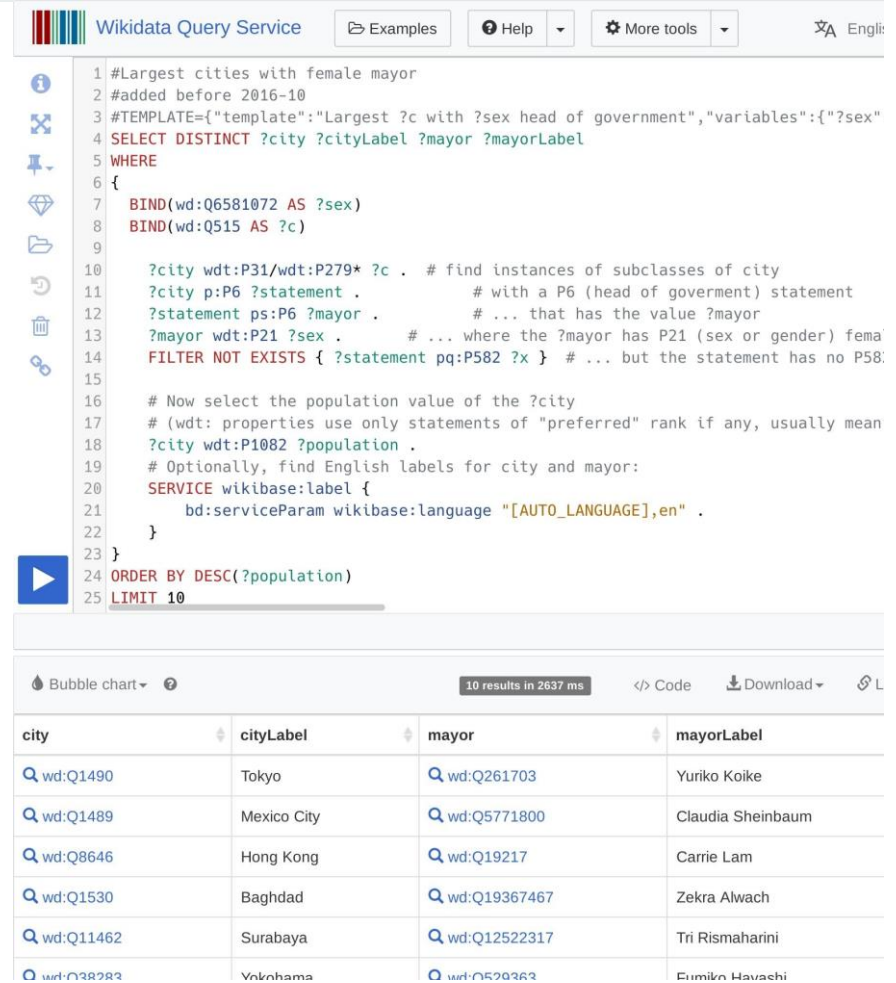
Etymology gon [edit]
stated in Oxford Etymological Lexicon
edition 3rd

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>



The screenshot shows the Wikidata Query Service interface. At the top, there's a header with the Wikidata logo, the text "Wikidata Query Service", and navigation buttons for "Examples", "Help", and "More tools". Below the header is a SPARQL query editor with a left sidebar containing icons for various actions like "Info", "Share", "Bookmark", "Diamond", "Folder", "Refresh", "Trash", and "Link". The query text is as follows:

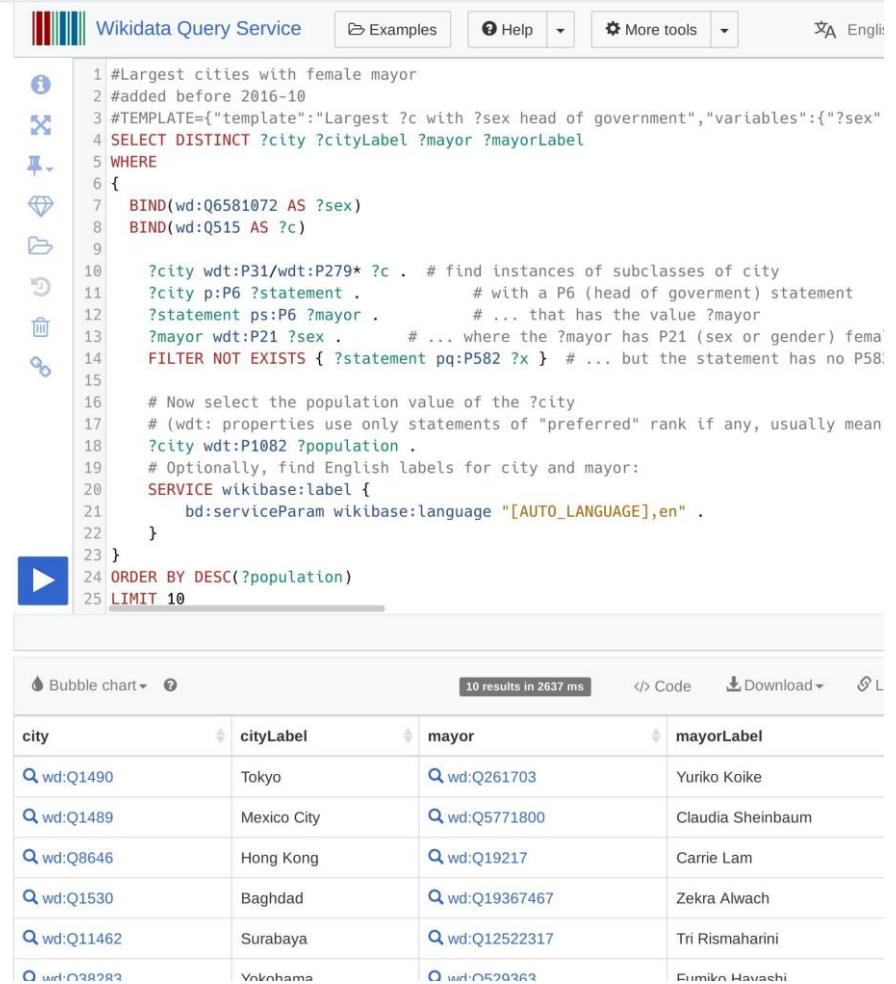
```
1 #Largest cities with female mayor
2 #added before 2016-10
3 #TEMPLATE={"template":"Largest ?c with ?sex head of government","variables":{"?sex"
4 SELECT DISTINCT ?city ?cityLabel ?mayor ?mayorLabel
5 WHERE
6 {
7   BIND(wd:Q6581072 AS ?sex)
8   BIND(wd:Q515 AS ?c)
9
10  ?city wdt:P31/wdt:P279* ?c . # find instances of subclasses of city
11  ?city p:P6 ?statement . # with a P6 (head of government) statement
12  ?statement ps:P6 ?mayor . # ... that has the value ?mayor
13  ?mayor wdt:P21 ?sex . # ... where the ?mayor has P21 (sex or gender) fema
14  FILTER NOT EXISTS { ?statement pq:P582 ?x } # ... but the statement has no P58.
15
16  # Now select the population value of the ?city
17  # (wdt: properties use only statements of "preferred" rank if any, usually mean
18  ?city wdt:P1082 ?population .
19  # Optionally, find English labels for city and mayor:
20  SERVICE wikibase:label {
21    bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en" .
22  }
23 }
24 ORDER BY DESC(?population)
25 LIMIT 10
```

Below the query editor, there's a play button icon and a status bar showing "10 results in 2637 ms". Below that, there's a "Bubble chart" button and a "Code" button. At the bottom, there's a table with 4 columns: "city", "cityLabel", "mayor", and "mayorLabel". The table contains 6 rows of data:

city	cityLabel	mayor	mayorLabel
Q1490	Tokyo	Q261703	Yuriko Koike
Q1489	Mexico City	Q5771800	Claudia Sheinbaum
Q8646	Hong Kong	Q19217	Carrie Lam
Q1530	Baghdad	Q19367467	Zekra Alwach
Q11462	Surabaya	Q12522317	Tri Rismaharini
Q38283	Yokohama	Q520363	Fumiko Hayashi

WDQS uses W3C's SPARQL as the query language.

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



The screenshot shows the Wikidata Query Service interface. At the top, there's a header with the Wikidata logo, the text "Wikidata Query Service", and navigation buttons for "Examples", "Help", and "More tools". Below the header is a SPARQL query editor with a toolbar on the left containing icons for help, copy, paste, undo, redo, and refresh. The query text is as follows:

```
1 #Largest cities with female mayor
2 #added before 2016-10
3 #TEMPLATE={"template":"Largest ?c with ?sex head of government","variables":{"?sex"
4 SELECT DISTINCT ?city ?cityLabel ?mayor ?mayorLabel
5 WHERE
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8   BIND(wd:Q515 AS ?c)
9
10  ?city wdt:P31/wdt:P279* ?c . # find instances of subclasses of city
11  ?city p:P6 ?statement .      # with a P6 (head of government) statement
12  ?statement ps:P6 ?mayor .    # ... that has the value ?mayor
13  ?mayor wdt:P21 ?sex .        # ... where the ?mayor has P21 (sex or gender) fema
14  FILTER NOT EXISTS { ?statement pq:P582 ?x } # ... but the statement has no P58.
15
16  # Now select the population value of the ?city
17  # (wdt: properties use only statements of "preferred" rank if any, usually mean
18  ?city wdt:P1082 ?population .
19  # Optionally, find English labels for city and mayor:
20  SERVICE wikibase:label {
21    bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en" .
22  }
23 }
24 ORDER BY DESC(?population)
25 LIMIT 10
```

Below the query editor, there's a play button icon. The results section shows a "Bubble chart" view with "10 results in 2637 ms". Below that is a table with the following data:

city	cityLabel	mayor	mayorLabel
Q1490	Tokyo	Q261703	Yuriko Koike
Q1489	Mexico City	Q5771800	Claudia Sheinbaum
Q8646	Hong Kong	Q19217	Carrie Lam
Q1530	Baghdad	Q19367467	Zekra Alwach
Q11462	Surabaya	Q12522317	Tri Rismaharini
Q38283	Yokohama	Q520363	Fumiko Hayashi

Wikidata tools and apps

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

<https://monumental.toolforge.org/>

MONUMENTAL Heidelberg Castle LOGIN



Heidelberg Castle

Heidelberger Schloss

Heidelberg · Karlsruhe Government Region · Baden-Württemberg · Germany

50 images and 28 subcategories 33 languages

Kulturdenkmal schloss-heidelberg.de



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

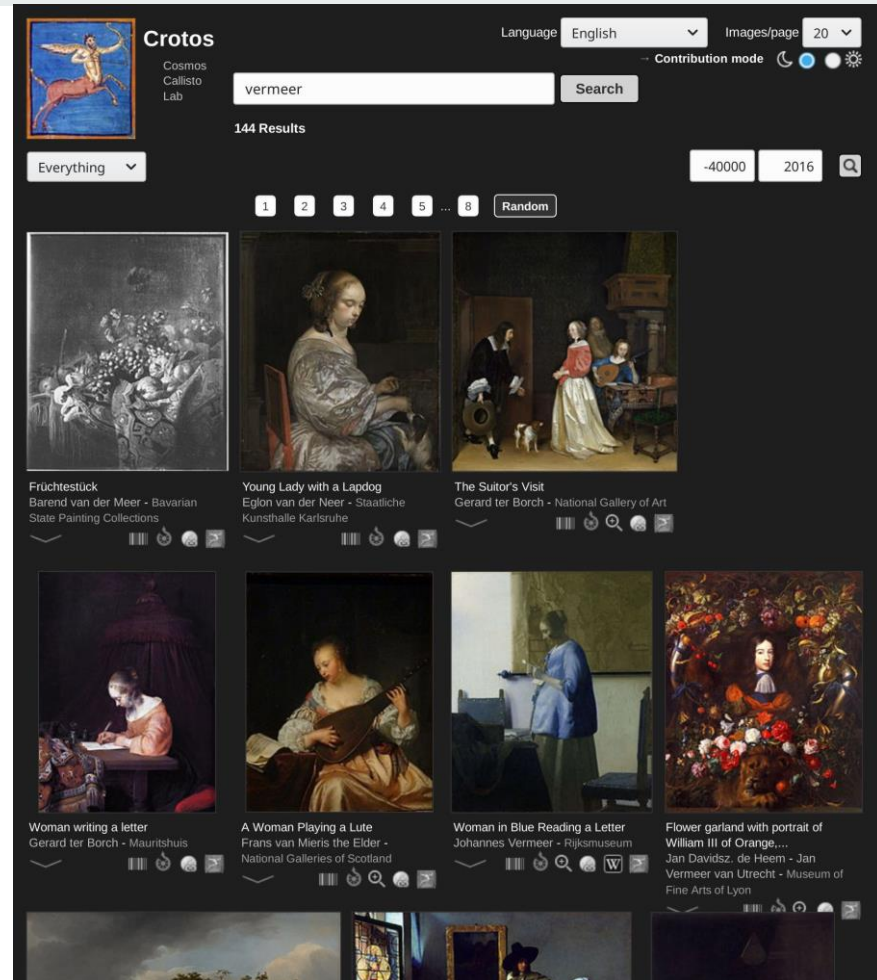
General data

instance of

- 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.

<http://zone47.com/crotos/>

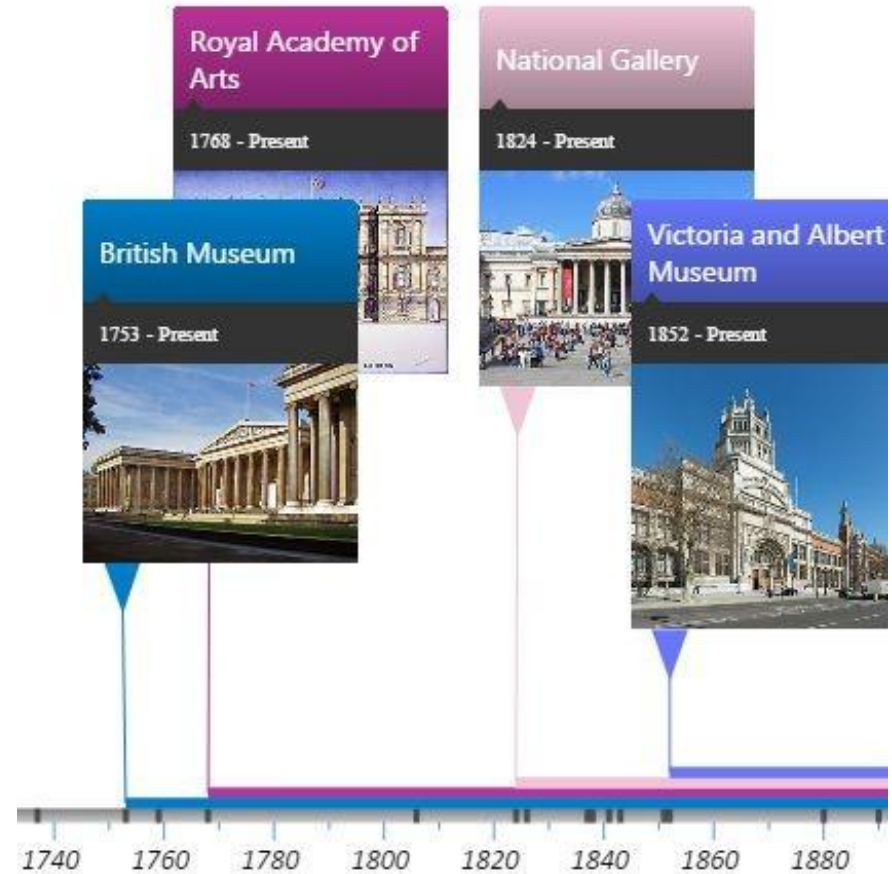


The screenshot displays the Crotos search engine interface. At the top left, there is a logo for Crotos, which is a centaur-like figure, and the text "Crotos Cosmos Callisto Lab". To the right, there are settings for "Language" (English) and "Images/page" (20). A search bar contains the text "vermeer" and a "Search" button. Below the search bar, it indicates "144 Results". There are filters for "Everything" and a date range from "-40000" to "2016". A pagination bar shows "1 2 3 4 5 ... 8 Random". The main area displays a grid of artwork thumbnails. Each thumbnail includes a small image, a title, and the artist's name and institution. The visible results include:

- Früchtestück** by Barend van der Meer - Bavarian State Painting Collections
- Young Lady with a Lapdog** by Eglon van der Neer - Staatliche Kunsthalle Karlsruhe
- The Suitor's Visit** by Gerard ter Borch - National Gallery of Art
- Woman writing a letter** by Gerard ter Borch - Mauritshuis
- A Woman Playing a Lute** by Frans van Mieris the Elder - National Galleries of Scotland
- Woman in Blue Reading a Letter** by Johannes Vermeer - Rijksmuseum
- Flower garland with portrait of William III of Orange...** by Jan Davidsz. de Heem - Jan Vermeer van Utrecht - Museum of Fine Arts of Lyon

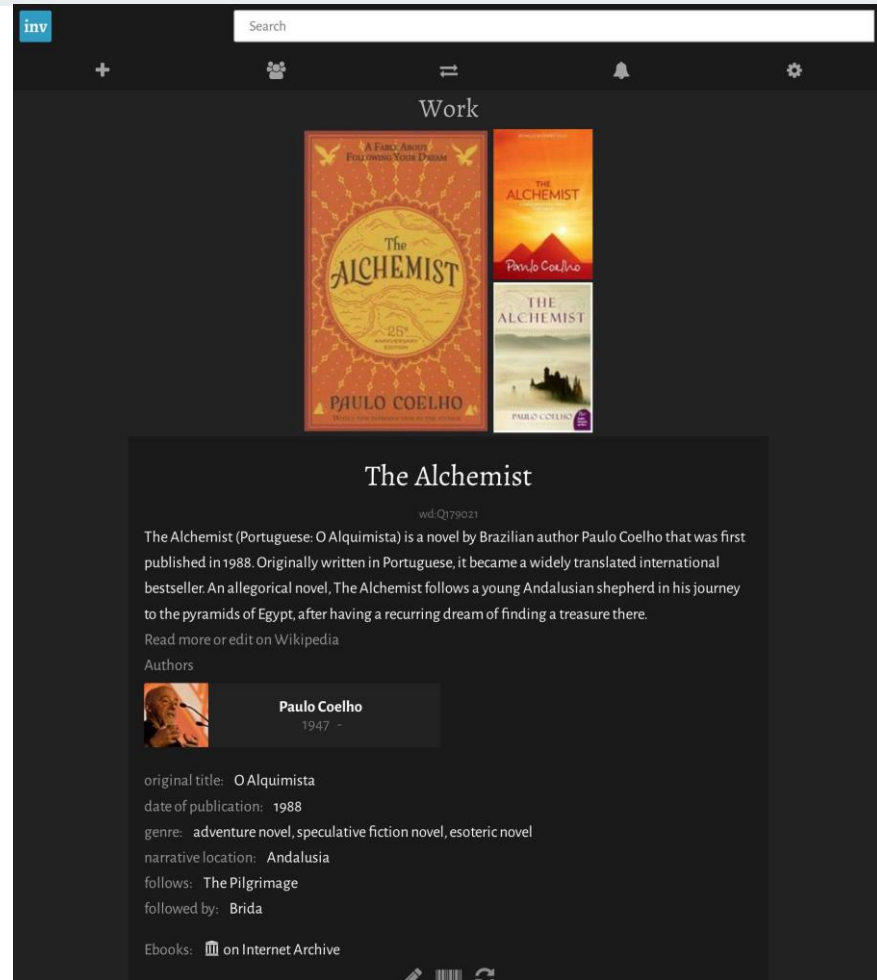
Histropedia allows you to generate interactive timelines with events linked to Wikipedia articles.

<http://histropedia.com/>



Inventaire: keep an inventory of your books!

<https://inventaire.io/>



The screenshot shows the 'Work' page for 'The Alchemist' on the Inventaire.io website. The page features three book covers: a large orange cover with a circular emblem, a smaller orange cover with a pyramid, and a white cover with a landscape. Below the covers, the title 'The Alchemist' is displayed with its Wikidata ID 'wd:Q79021'. A detailed description follows, stating it is a novel by Paulo Coelho published in 1988. Below the description is a link to the Wikipedia page and a section for authors, featuring a small portrait of Paulo Coelho. At the bottom, there are fields for original title, date of publication, genre, narrative location, follows, followed by, and ebooks, with a link to the Internet Archive.

inv Search

Work


The Alchemist

wd:Q79021

The Alchemist (Portuguese: O Alquimista) is a novel by Brazilian author Paulo Coelho that was first published in 1988. Originally written in Portuguese, it became a widely translated international bestseller. An allegorical novel, The Alchemist follows a young Andalusian shepherd in his journey to the pyramids of Egypt, after having a recurring dream of finding a treasure there.

[Read more or edit on Wikipedia](#)

Authors

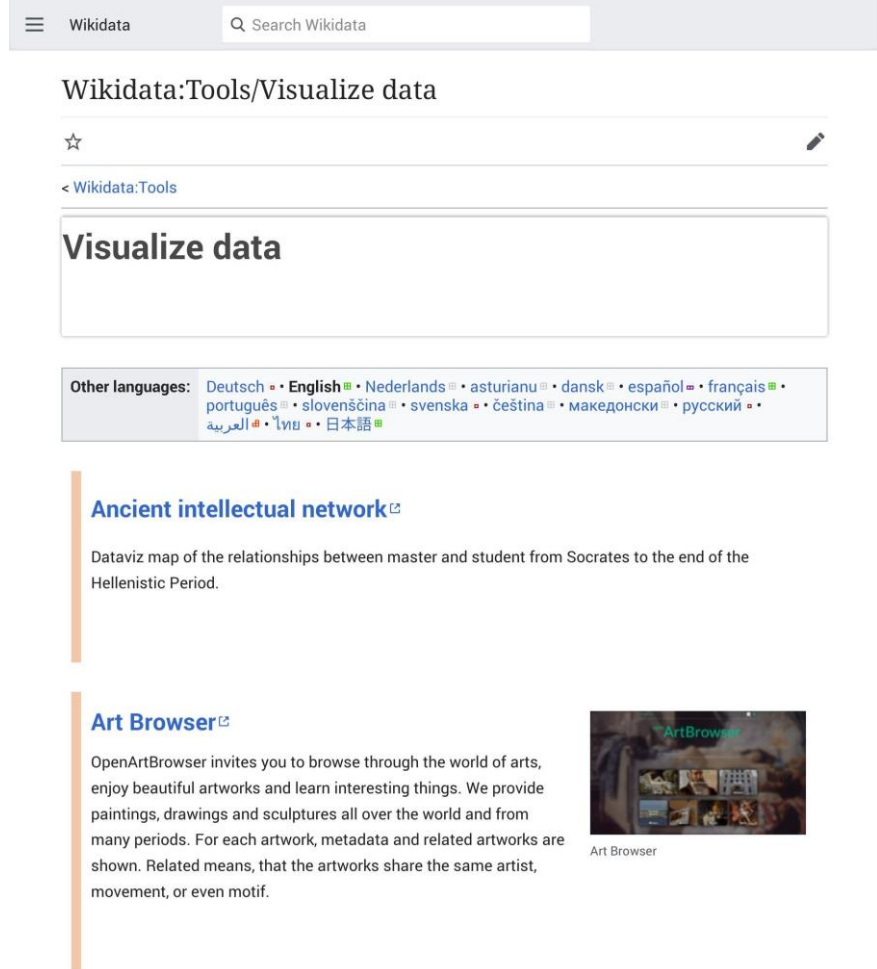
 **Paulo Coelho**
1947 -

original title: O Alquimista
date of publication: 1988
genre: adventure novel, speculative fiction novel, esoteric novel
narrative location: Andalusia
follows: The Pilgrimage
followed by: Brida

Ebooks: [on Internet Archive](#)

More tools are listed on
Wikidata:

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



The screenshot shows the Wikidata interface for the 'Visualize data' tool. At the top, there is a Wikidata logo and a search bar. Below the search bar, the page title is 'Wikidata:Tools/Visualize data'. There is a star icon and a pencil icon. A breadcrumb trail shows '< Wikidata:Tools'. The main heading is 'Visualize data'. Below this, there is a section for 'Other languages' with a list of language options: Deutsch, English, Nederlands, asturianu, dansk, español, français, português, slovenščina, svenska, čeština, македонски, and русски. Below the language list, there are two sections: 'Ancient intellectual network' and 'Art Browser'. The 'Ancient intellectual network' section has a description: 'Dataviz map of the relationships between master and student from Socrates to the end of the Hellenistic Period.' The 'Art Browser' section has a description: '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.' To the right of the 'Art Browser' text is a small image of the Art Browser interface, which shows a grid of artworks.

Wikidata

Search Wikidata

Wikidata:Tools/Visualize data

< Wikidata:Tools

Visualize data


Other languages: Deutsch • **English** • Nederlands • asturianu • dansk • español • français • português • slovenščina • svenska • čeština • македонски • русски • العربية • ไทย • 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.

Weybridge

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. (diff) – Previous revision | Latest revision (diff) | Newer revision → (diff)

🗨️



Weybridge is a town in the **Elmbridge** district of **Surrey** in **South East England**. It is bounded to the North by the **River Thames** at the mouth of the **River Wey**, from which it gets its name.



Map of Weybridge (from OpenStreetMap.org)

☰ Contents ▾

^ 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.

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.



Bourrichon / CC BY-SA 3.0 .

https://commons.wikimedia.org/wiki/File:Macau_topographic_map-fr.svg

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 cafes - 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 **1**

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.

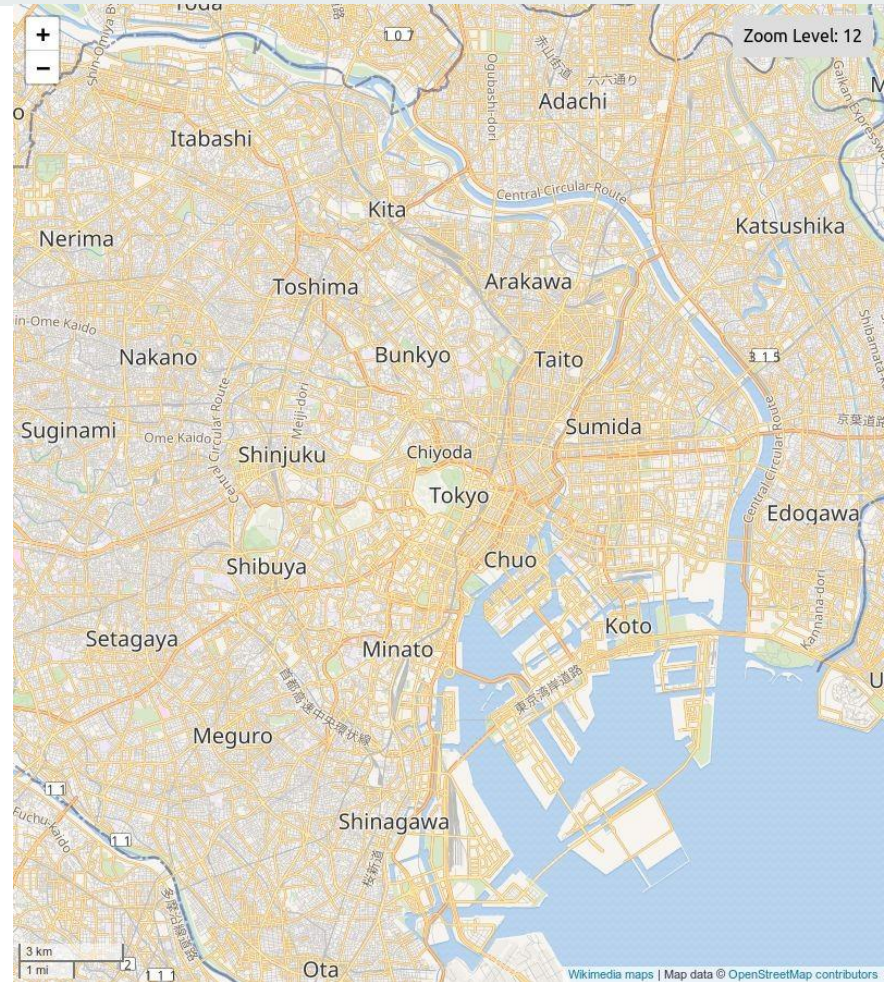



Map of Milan/Centro Storico



The Duomo metro station on M1 and M3

The Wikimedia Foundation [released](#) internationalized map tiles for Kartotherian, leveraging OSM's `name:*=*` tags.

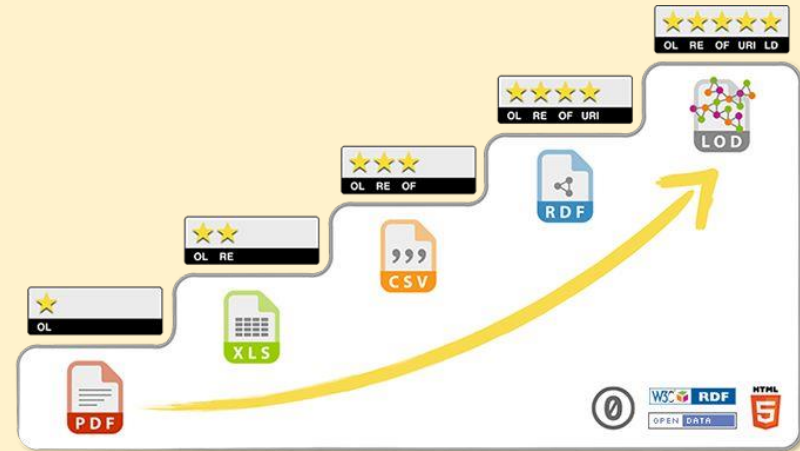



WikiMiniAtlas, an older
MediaWiki plugin still in use in
many Wikipedias, is also
powered by OSM data,
including 3D building data.

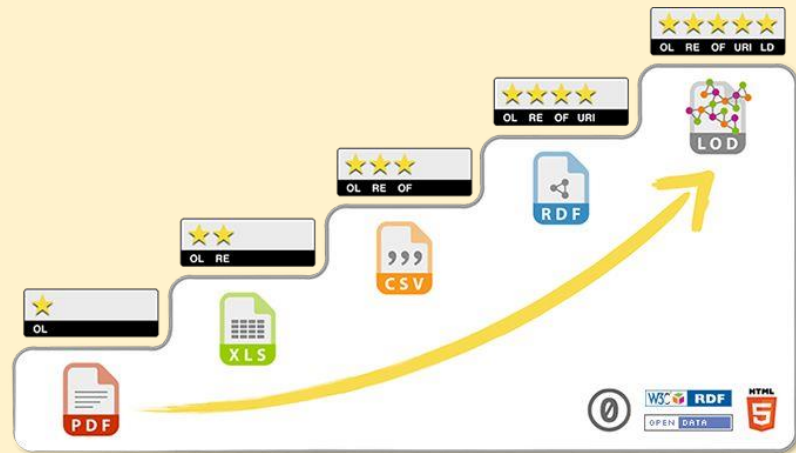


Why link OSM and Wikidata?

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



Linked Open data (LOD)



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

Wikidata

(Q2966) ☆

English

Heidelberg

city in Baden-Württemberg, Germany

Identifiers

Freebase ID /m/0cm5m 1 reference stated in Freebase Data Dumps publication date 28 October 2013	Encyclopædia Britannica Online ID place/Heidelberg 0 references
NUTS code DE125 0 references	archINFORM location ID 145 1 reference reference URL https://www.archinform.net/service/wd_aiort.php stated in archINFORM retrieved 5 August 2018
Nomisma ID heidelberg 0 references	National Library of Israel identifier 000986952 1 reference stated in Virtual International Authority File VIAF ID 144258029 reference URL http://www.viaf.org/viaf/144258029/ retrieved 1 April 2016
OSM relation ID 285864 0 references	Great Russian Encyclopedia Online ID 2347969 0 references
Quora topic ID Heidelberg-Germany 0 references	Image Archive, Herder Institute Q2966 0 references
US National Archives Identifier 10044743 0 references	

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=*](#).

The screenshot shows the OpenStreetMap interface. On the left, a panel displays details for a relation with ID 285864, titled "Relation: Heidelberg (285864)". The panel includes a search bar, a "Go" button, and a "History" button. Below the title, it shows "Translations - Arabic" and "Edited 9 months ago by أحمدو" with "Version #29 - Changeset #65537272". A table of tags is displayed, with the "wikidata" and "wikipedia" rows highlighted in orange. A large orange arrow points to the "wikidata" row. Below the table, it lists "Part of" relations: "Relation Heidelberg (2998772) (as part)" and "Relation Metropolregion Rhein-Neckar (9033992) (as part)". At the bottom, it lists "Members". On the right, a map view shows Heidelberg and surrounding areas, with the city boundary highlighted in orange. The map includes a scale bar (3 km / 3 mi) and a copyright notice: "© OpenStreetMap contributors Make a Donation. Website and API terms".


admin_level	6
alt_name:ar	هايدلبرج
boundary	administrative
de:amtlicher_gemeindeschlüssel	08221000
de:place	city
de:regionalschlüssel	08221000000
name	Heidelberg
name:ar	هايدلبرغ
name:de	Heidelberg
name:el	Χαϊδεάβεργη
name:ko	하이델베르크
name:prefix	Stadt
name:ru	Гидельберг
source	www.lgl-bw.de
type	boundary
wikidata	Q2966
wikipedia	de:Heidelberg

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 Soviet Encyclopedia
 - 0 references

OSM tag or key

- Tag:man_made=lighthouse
 - 0 references

equivalent class

- <http://dbpedia.org/ontology/Lighthouse>
 - 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

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

Create account Log in

Page Discussion Read View source View history Search OpenStreetMap Wiki

Taanan_made=adit

Available languages — Tag: **man_made=adit** Change · Help

· čeština · Deutsch · English · español · français · polski · português · русский · 日本語 · 粵語

An **adit** 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

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

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)
- T**
- 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"

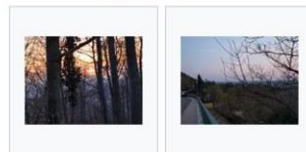
This category contains only the following page.

- Heidelberg

Media in category "Heidelberg"

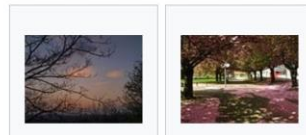
The following 200 files are in this category, out of 366 total.


(previous page) (next page)



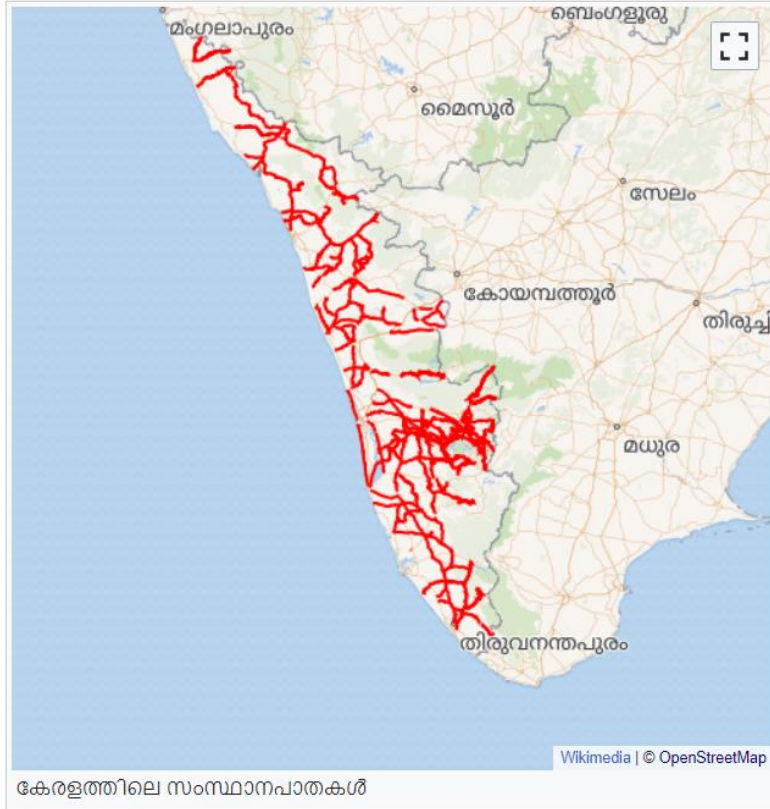
2011-03-24-184658 ... 1,200 × 900; 354 KB

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

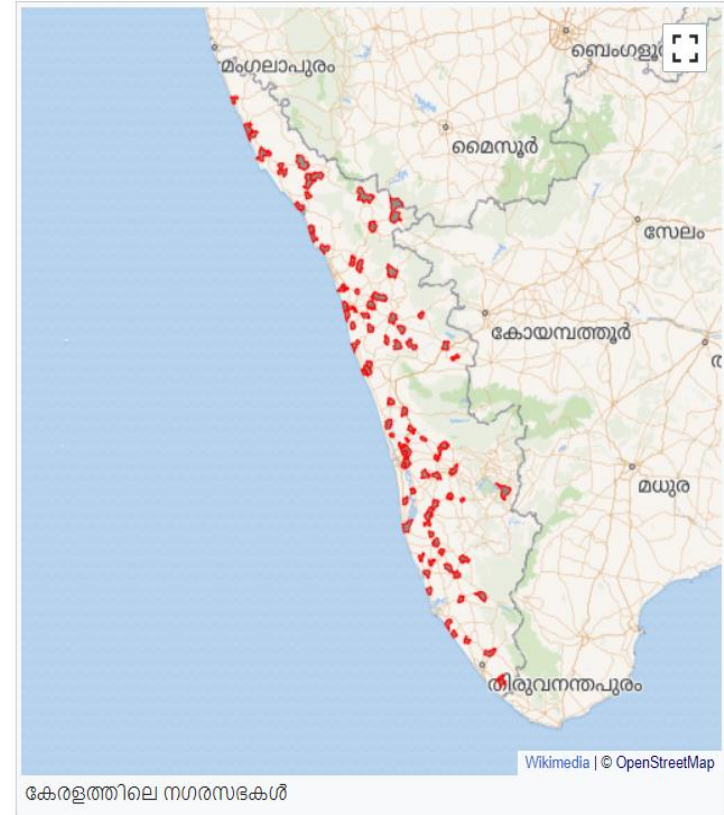


Paralympics	
Population	• 160,601 (2017)
Area	• 108.89 km² (2016, 2017)
Elevation above sea level	• 114 ±1 m
official e ↗	
 <p>Schriesheim Dossenheim Heidelberg Neckargemünd Leimen</p> <p><small>Wikimedia maps Map data © OpenStreetM...</small></p> <p>49° 24′ 43.92″ N, 8° 42′ 36″ E ↗</p>	
Authority control	
 Q2966	
VIAF ID: 144258029 ↗	
GND ID: 4023996-2 ↗	
Library of Congress authority ID: n81096075 ↗	
National Diet Library Auth ID: 00628943 ↗	
OSM relation ID: 285864 ↗	
National Library of Israel identifier: 000986952 ↗	
US National Archives Identifier: 10044743 ↗	
Reasonator ↗ Scholia ↗ Statistics ↗	
WikiShootMe ↗	

കേരളത്തിലെ സംസ്ഥാനപാതകൾ



കേരളത്തിലെ നഗരസഭകൾ

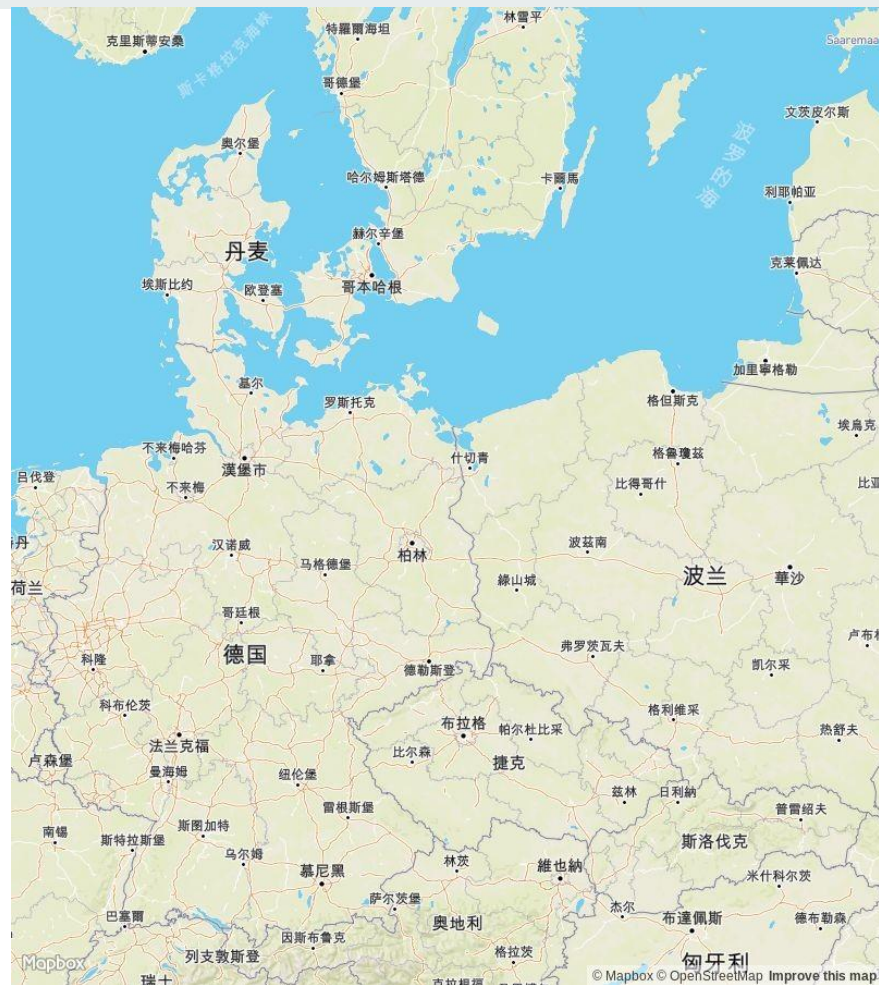


https://ml.wikipedia.org/wiki/List_of_state_highways_in_Kerala

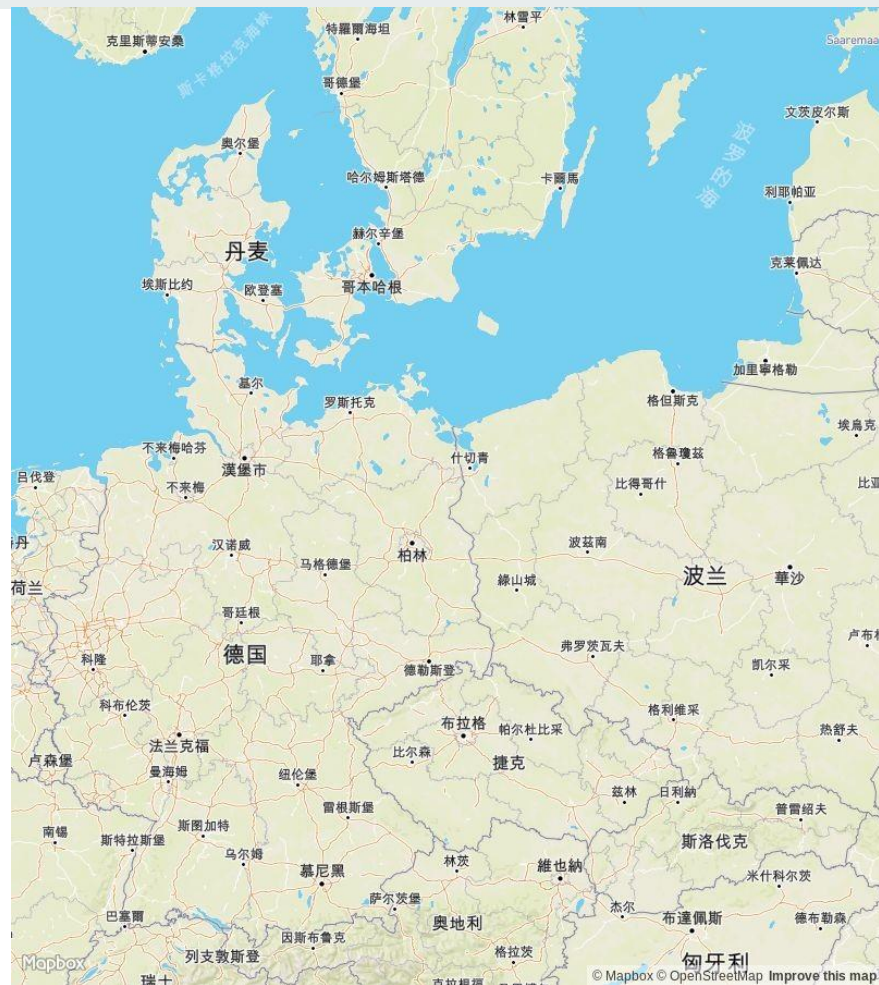
https://ml.wikipedia.org/wiki/Municipalities_of_Kerala

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

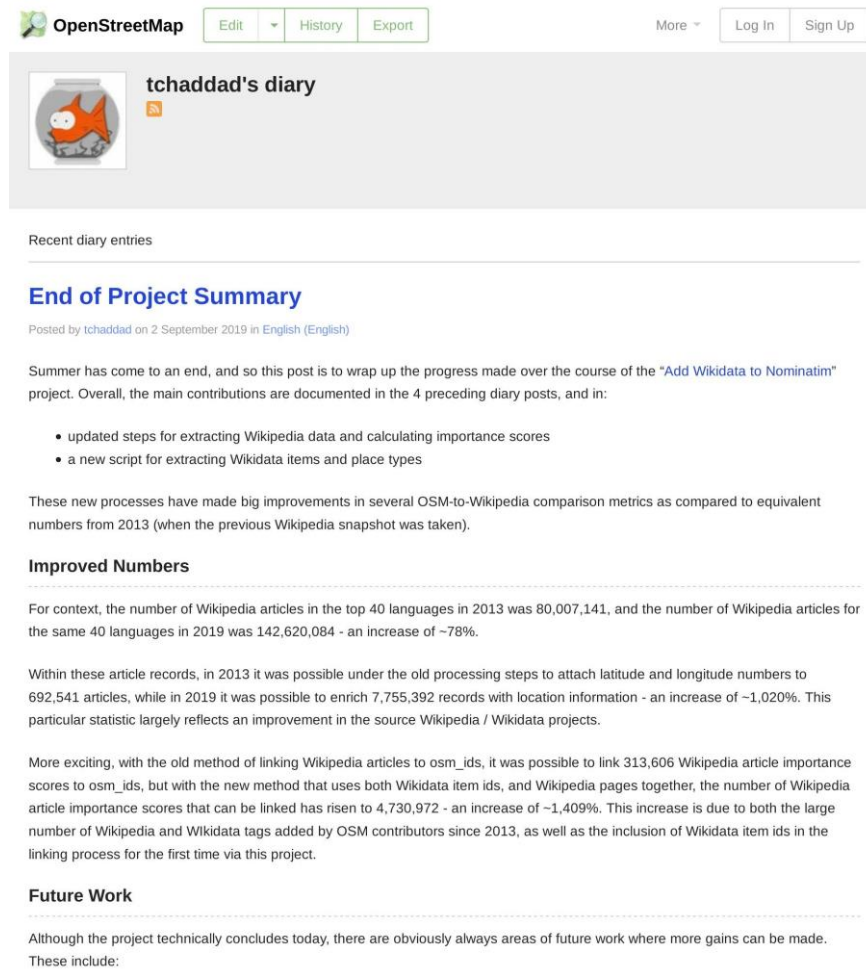
If there are missing `name:` tags on an OSM object, they pull labels from corresponding Wikidata entries.*



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.



The screenshot shows the OpenStreetMap interface. At the top, there is a navigation bar with the OpenStreetMap logo, 'Edit', 'History', and 'Export' buttons, and a 'More' dropdown menu containing 'Log In' and 'Sign Up' buttons. Below this is the user profile for 'tchaddad's diary', featuring a profile picture of a red fish and a small orange icon. The main content area is titled 'Recent diary entries' and features a section for 'End of Project Summary'. The summary is posted by tchaddad on 2 September 2019 in English. The text of the summary discusses the completion of a project to integrate Wikidata tags into Nominatim, highlighting improvements in OSM-to-Wikipedia comparison metrics. It includes a bulleted list of updates: 'updated steps for extracting Wikipedia data and calculating importance scores' and 'a new script for extracting Wikidata items and place types'. The summary also mentions that these processes have made big improvements in several OSM-to-Wikipedia comparison metrics as compared to equivalent numbers from 2013. A section titled 'Improved Numbers' provides context, stating that the number of Wikipedia articles in the top 40 languages in 2013 was 80,007,141, and in 2019 it was 142,620,084, an increase of ~78%. It also notes that within these article records, in 2013 it was possible 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%. A final section, 'Future Work', states that although the project technically concludes today, there are obviously always areas of future work where more gains can be made. These include:

OpenStreetMap Edit History Export More Log In Sign Up

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.

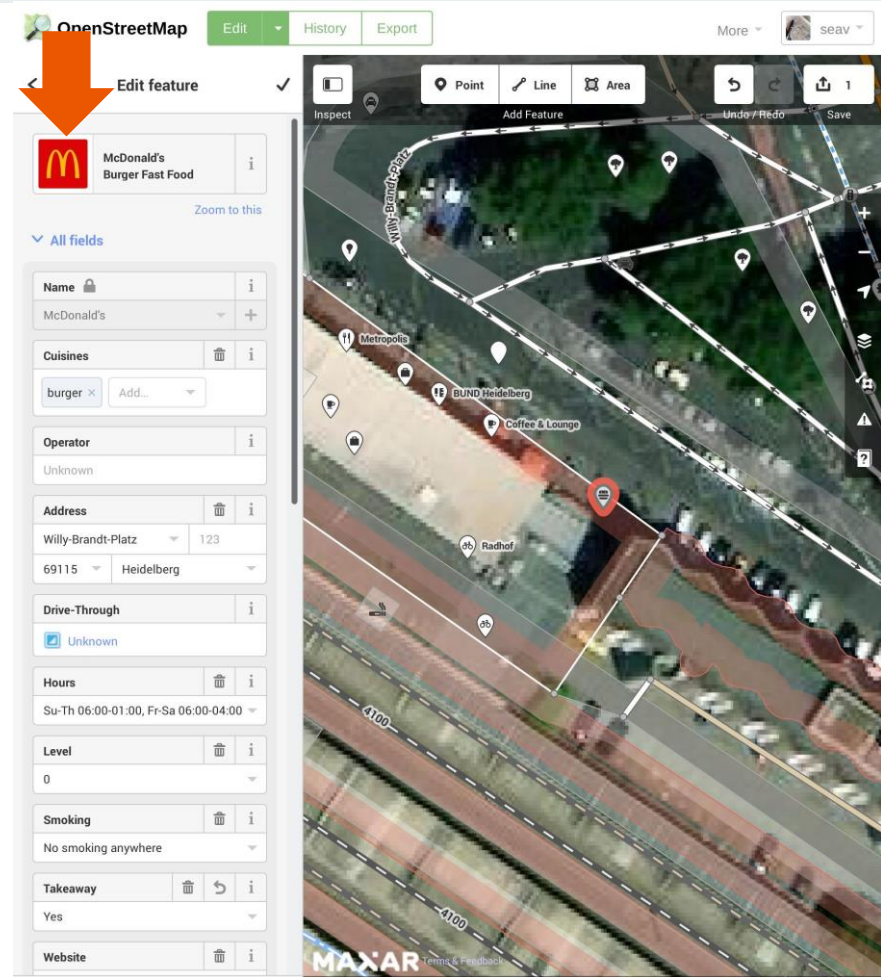
More exciting, with the old method of linking Wikipedia articles to `osm_ids`, it was possible to link 313,606 Wikipedia article importance scores to `osm_ids`, but with the new method that uses both Wikidata item ids, and Wikipedia pages together, the number of Wikipedia article importance scores that 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>

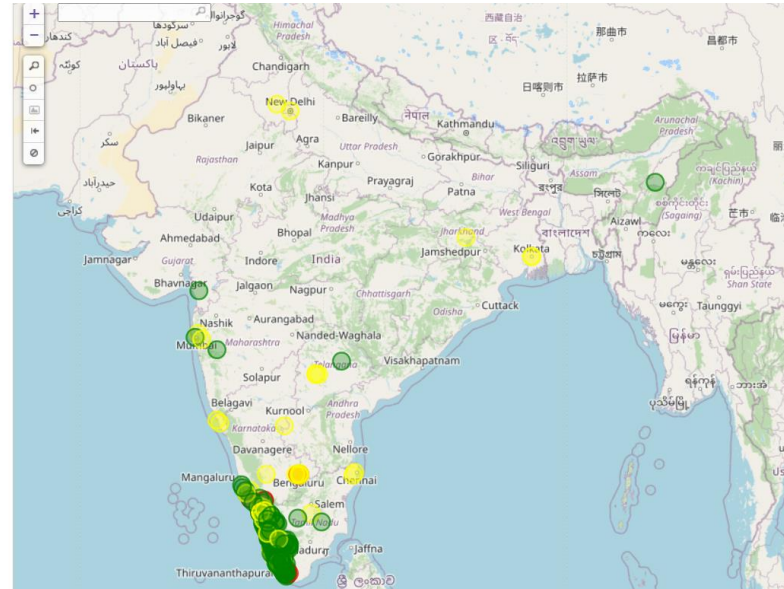


Brand - Name Suggestion Index

<p># Federal Bank</p> <p>federalbank-34f411</p> <p>{ "include": ["in"] }</p> <p>Search Overpass Turbo</p> <p>Search Google</p> <p>Search Wikipedia</p>	<p>344</p>	<pre> "amenity": "bank" "brand": "Federal Bank" "brand:wikidata": "Q2044983" "brand:wikipedia": "en:Federal Bank" "name": "Federal Bank" </pre>	<p>Federal Bank</p> <p>"large commercial bank located in India"</p> <p>Q2044983</p> <p>https://www.federalbank.co.in/</p> <p> </p>	
--	------------	---	--	---

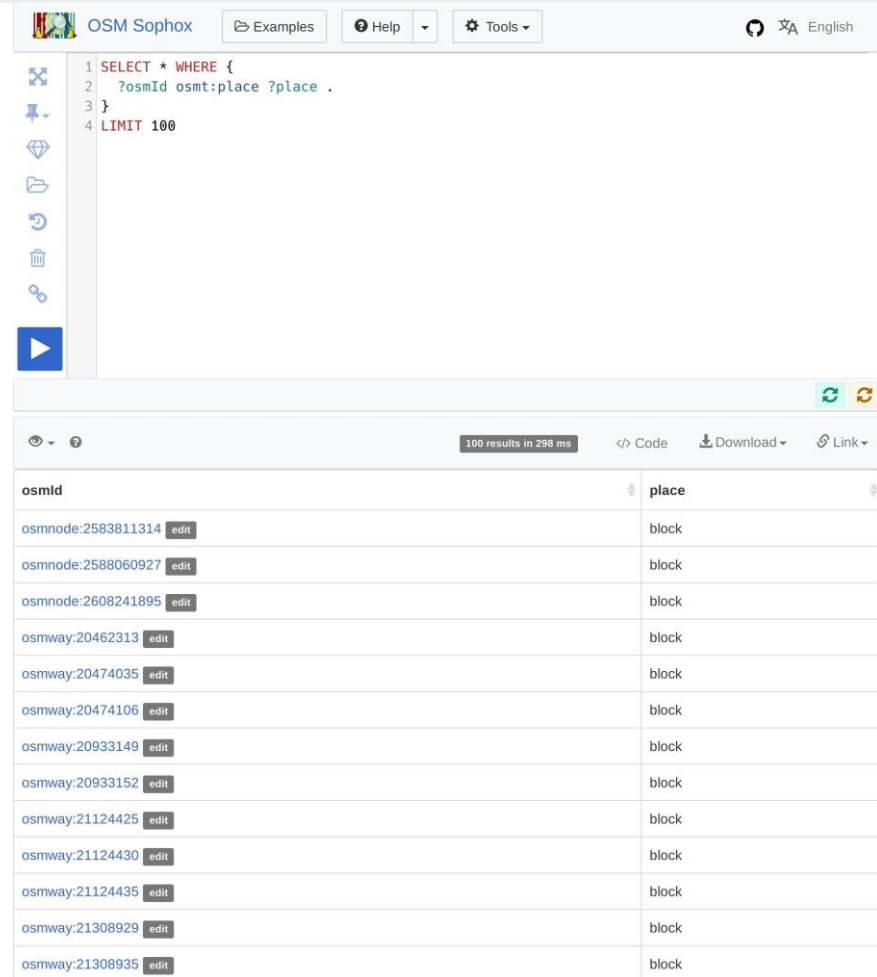
```

1 [out:json][timeout:100];
2 (nwr["name"="Federal Bank"]);
3 out body;
4 >;
5 out skel qt;
6
7 {{style:
8 node[name=Federal Bank],
9 way[name=Federal Bank],
10 relation[name=Federal Bank]
11 { color:red; fill-color:red; }
12 node[amenity=bank][name=Federal Bank],
13 way[amenity=bank][name=Federal Bank],
14 relation[amenity=bank][name=Federal Bank]
15 { color:yellow; fill-color:yellow; }
16 node[amenity=bank][name=Federal Bank][brand=Federal Bank][brand:wikidata=Q2044983],
17 way[amenity=bank][name=Federal Bank][brand=Federal Bank][brand:wikidata=Q2044983],
18 relation[amenity=bank][name=Federal Bank][brand=Federal Bank][brand:wikidata=Q2044983]
19 { color:green; fill-color:green; }
20 }}
                    
```



Yurik Astrakhan (OSM: nyuriks) created [Sophox](https://wiki.osm.org/Sophox), 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/>



The screenshot shows the OSM Sophox web interface. At the top, there is a header with the logo, the name "OSM Sophox", and navigation buttons for "Examples", "Help", and "Tools". The main area contains a SPARQL query editor with the following code:

```
1 SELECT * WHERE {  
2   ?osmId osmt:place ?place .  
3 }  
4 LIMIT 100
```

Below the editor, there is a table of results. The table has two columns: "osmId" and "place". The results are as follows:

osmId	place
osmnode:2583811314 edit	block
osmnode:2588060927 edit	block
osmnode:2608241895 edit	block
osmway:20462313 edit	block
osmway:20474035 edit	block
osmway:20474106 edit	block
osmway:20933149 edit	block
osmway:20933152 edit	block
osmway:21124425 edit	block
osmway:21124430 edit	block
osmway:21124435 edit	block
osmway:21308929 edit	block
osmway:21308935 edit	block

Federated Queries

Nature [\[edit\]](#) [\[edit source\]](#)

Threatened species of trees [\[edit\]](#) [\[edit source\]](#)

Displays an interactive map of trees whose species is categorized as [threatened](#) on the [IUCN Red List](#).

```
#defaultView:Map
```

```
SELECT ?tree ?taxon ?taxonLabel ?layer ?coordinates WHERE {  
  # Query OpenStreetMap for trees and their taxa  
  ?tree osmt:natural "tree";  
    (osmt:genus:wikidata|osmt:species:wikidata|osmt:taxon:wikidata) ?taxon;  
  osmm:loc ?coordinates.
```

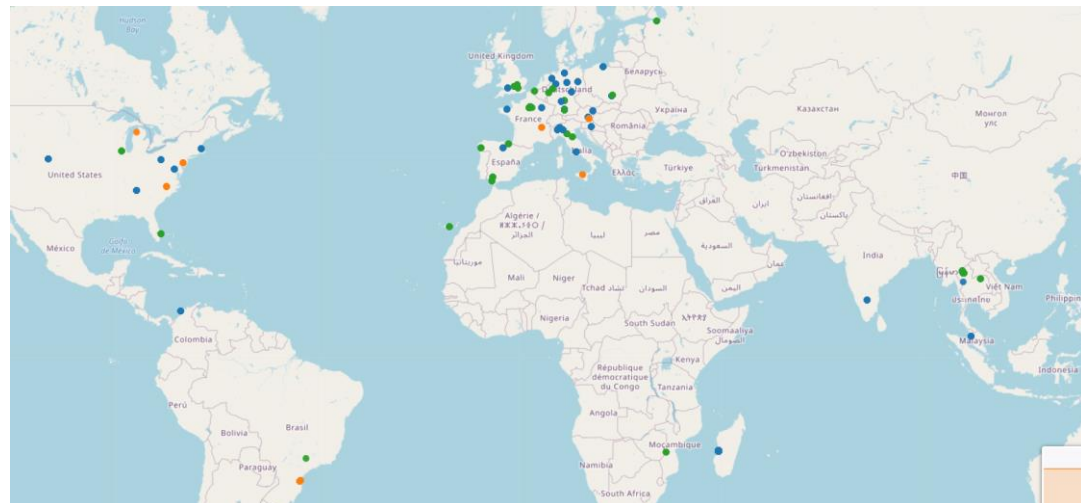
```
# Query Wikidata for
```

```
SERVICE <https://query.wikidata.org/sparql> {  
  # Taxa categorized as threatened on the IUCN Red List  
  VALUES (?status ?layer) {  
    (wd:Q278113 "Vulnerable (VU)")  
    (wd:Q11394 "Endangered (EN)")  
    (wd:Q219127 "Critically endangered (CR)")  
  }
```

```
?taxon wdt:P141 ?status.
```

```
# Get the English common name
```

```
OPTIONAL {  
  ?taxon wdt:P1843 ?taxonLabel.  
  FILTER(LANG(?taxonLabel) = "en")  
}
```



Node: *Guaiacum officinale* ×
(3476635853)

Version #5
fixing all trees -- with species.wikidata - found them with <http://tinyurl.com/y72v4yv3> - using <https://wiki.openstreetmap.org/wiki/Wikidata%2BOSM>

Edited about 3 years ago by nyuriks - Changelog #51982127

Location: 12.9533522, 77.5848743

Tags

name	Guaiacum officinale
natural	tree
species:wikidata	Q2051175
species:wikipedia	en:Guaiacum officinale

[Download XML](#) · [View History](#)



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



OpenStreetMap Wiki

highway=motorway (Q4980)

High capacity highways designed to safely carry fast motor traffic.

Contents

Statements

instance of tag 0 references	use on relations is prohibited 0 references
permanent tag ID highway=motorway 0 references	group highways 0 references
key for this tag highway 0 references	Wikidata concept Q46622 0 references
image  A4-passante di mestre dd.png image caption Αυτοκινητόδρομος (Greek) 0 references	implies surface=paved 0 references oneway=yes 0 references motor_vehicle=yes 0 references hgv=yes 0 references motorcar=yes
	

CHAPTER 3

How to add Wikidata to OSM

ID Editor

Edit feature

Point Line Area Save

Fountain i

All fields

Name	Josephine Shaw Lowell Fountain	+	🗑️
------	--------------------------------	---	----

Add field: Address, Description, El...

All tags (2)

amenity	fountain	+	🗑️	i
name	Josephine Shaw L...	+	🗑️	i

All relations (0)

+

[View on openstreetmap.org](#)

Le Pain Quotidien
IRT Flushing Line
Josephine Shaw Lowell Fountain
Jose Bonifacio de Andrada e Silva
Southwest Porch
Crystal Palace
Bryant Park

bing © 2016 Microsoft Corporation
50 ft
live A&S 1.9.0 bhouse! logout

Level0

Level0 OpenStreetMap Editor

Reading URL <https://api.openstreetmap.org/api/0.6/relation/8831603>

URL or group of IDs like "n54,w33":

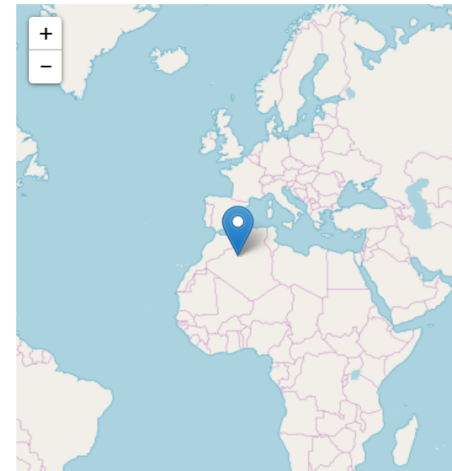
OSM or OSC file: No file chosen

You're naveenpf.

Changeset comment:

```
relation 8831603
network = IN:NH
ref = NH185
route = road
type = route
wikidata = Q28179247
wikipedia = en:National Highway 185 (India)
wy 81113615
wy 479213703
wy 285655916
wy 479213074
wy 618466423
wy 479213075
wy 618466421
wy 618466422
wy 618466424
wy 618466425
wy 384312298
wy 285869360
wy 285869370
wy 398487194
wy 286027825
wy 384312297
wy 286027824
wy 31715691
wy 378310636
```

← 30, 0



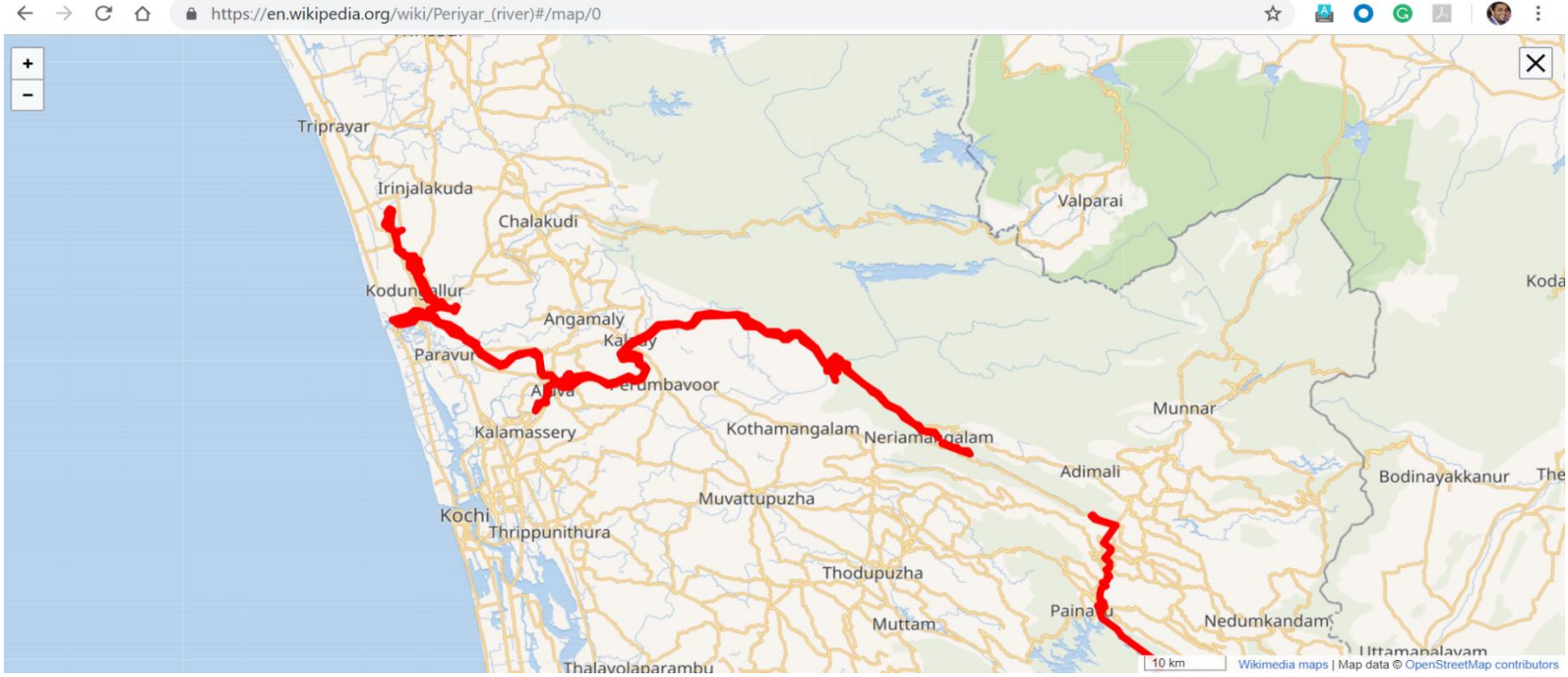
<http://level0.osmz.ru/index.php>




Linking OpenStreetMap and Wikidata

- A semi-automated, user-assisted editing tool
- <https://osm.wikidata.link/>

Challenges: River is line or shape ?



Challenges: Changing of tags

- 
- Changing of tags in Wikidata and OSM causes issues.
 - Very difficult to find what tags has been changed.

Challenges

Wikidata cannot wholesale import coordinates from OSM because OSM is licensed under the **Open Database License (ODbL)**.

(We have a messy situation regarding EU database rights and the repeated extraction of insubstantial extracts.)



Challenges

OSM will *not* import coordinates from Wikidata despite the CC0 license because of **provenance issues** related to Google Maps and others.

("It is an established principle in OpenStreetMap that we don't import geodata from Wikipedia.")



Challenges

There is some push back from the OSM community against bulk adding more **wikidata=*** tags into OSM. The comments are eerily similar to Wikipedians'.

*(Example: "Could we just pause any wikidata edits for a month or two?"
—[OSM talk mailing list thread](#))*



National Data Sharing and Accessibility Policy (NDSAP) – 2012

1. Preamble

1.1 Asset and value potentials of data are widely recognized at all levels. Data collected or developed through public investments, when made publicly available and maintained over time, their potential value could be more fully realized. There has been an increasing demand by the community, that such data collected with the deployment of public funds should be made more readily available to all, for enabling rational debate, better decision making and use in meeting civil society needs. Principle 10 of the United Nations Declaration on Environment and Development (Rio de Janeiro, June 1992), stated

".....each individual shall have appropriate access to information concerning the environment that is held by public authorities and the opportunity to participate in the decision making process. States shall facilitate and encourage public awareness and participation by making information widely available."

Section 4(2) of the Right to Information Act, 2005 reads


"It shall be a constant endeavor of every public authority to take steps in accordance with the requirements of clause (b) of sub-section (1) to provide as much information suo motu to the public at regular intervals through various means of communication, including internet, so that the public have minimum resort to the use of this Act to obtain information"

Topics of the most popular open datasets

- 1  **Police and crime:** Police incidents; jail bookings; police station locations; crime statistics
- 2  **Transportation:** Taxi licenses; transit data; traffic counts; road infrastructure data; parking data
- 3  **Emergency calls:** Police, fire, and EMS responses; 911 calls; response times; incident reports
- 4  **Development:** Commercial developments; housing developments; property data; housing affordability
- 5  **Building safety:** Building permits; safety permits; certificates of occupancy
- 6  **Finance:** Revenue; spending; employee salaries; capital budgets; payments
- 7  **Elections:** Election results; polling locations; campaign finance reports
- 8  **Businesses and licenses:** Business licenses; liquor licenses; vendor, contract, and procurement data
- 9  **Inspections and service requests:** Restaurant health inspections; 311 requests; code violations
- 10  **Education:** Schools information; student health data; after-school programs; library locations



- Admin Boundaries:- Districts, Taluk, Village
- Political Boundaries:- Lokshaba Constituency, Assembly Constituency, Local Government Boundaries.

- 
- LDF Keralam (*Idfkeralam.org* website) images to CC release
 - Sarvavijnanakosham
 - Schoolwiki
 - Panchayatwiki
 - Wikipedia article CD (KITE – IT @ School)
 - Public release of Wikisource article CD
 - Wikisource – Digitalisation effort with IT @ School



-
- Activities in partnering with SMC
 - Partnering with HOTOSM – Remote Mapping during 2018 Floods
 - Govt opendata licence vetting by LWG
 - Partnering with Facebook –Mapping with AI during 2018 Floods
 - Helping in Hospital data import – Facebook/RMSI
 - IT Dept contributing to OpenStreetMap – Mapathon Kerala
 - Intervention to start - Kerala Opendata Portal

 - Data used
 - Kerala Rescue
 - Covid19Kerala
 - CoronaSafe Network



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SABHA TV

ഒരുമിച്ചു നമുക്ക് നേടാവുന്നത് എത്ര ഏറെയാണ്





#opendata is the future
#opendata will win



The best weapon of a dictatorship
is secrecy, but the best weapon of
a democracy should be the
weapon of openness.

Niels Bohr

quotezancy

Thank you



Thank you

Slides adapted :Eugene Alvin Villar
Inputs from : Manoj Karingamadathil