Introduction to Wikidata And Connect with Openstreetmap

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w.wiki/t9

FreeSoftware users group THRISSUR

WIKIMEDIANS OF KERALA USER GROUP

OSM കേരള KERALA

OpenDataKerala

Sahya Digital Conservation Foundation

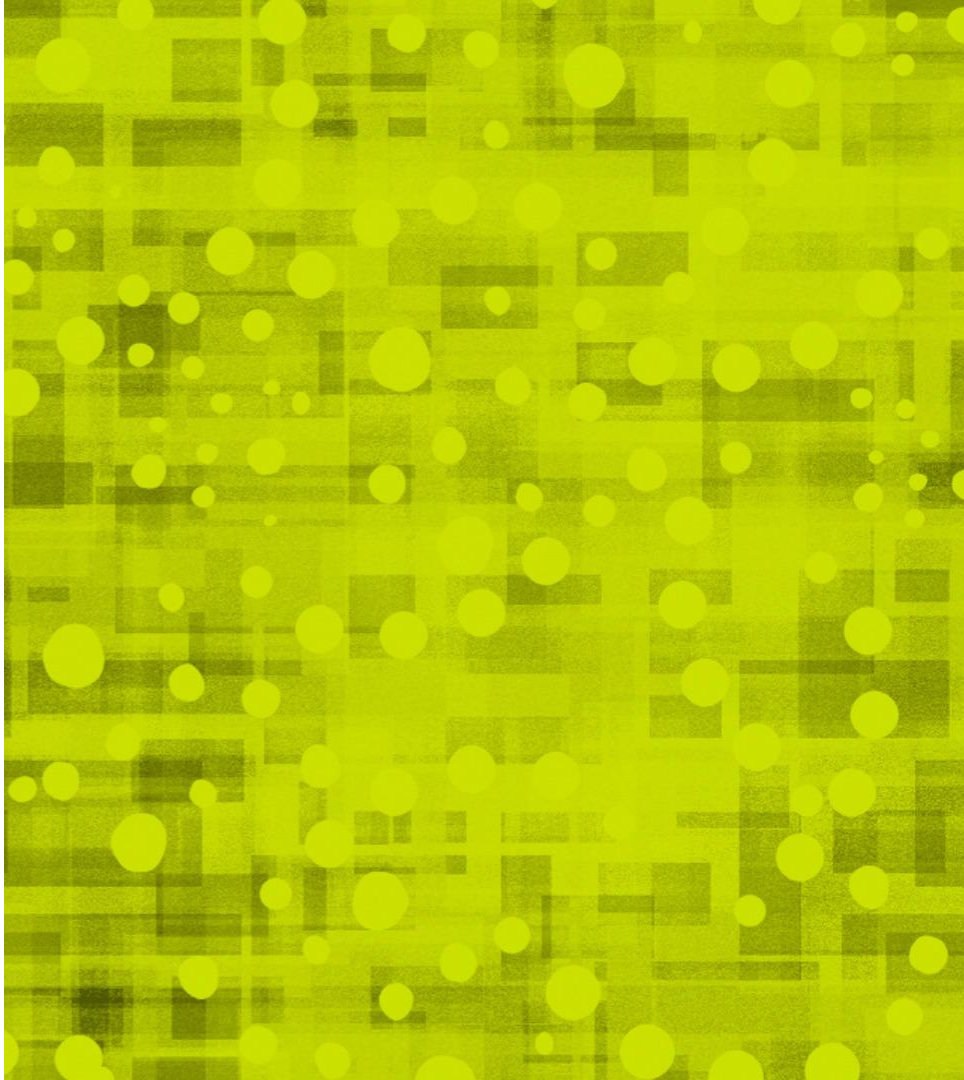
https://commons.wikimedia.org/wiki/File:JimmyWalesJI5.jpg

Imagine a world in which every single person on the planet is given free access to the sum of all human knowledge. That's what we're doing

-- Jimmy Wales (https://en.wikiquote.org/wiki/Jimmy_Wales#Quotes)

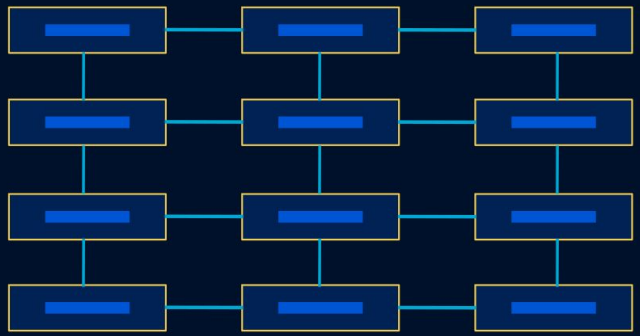
Unstructured Data

- Text -> Article, Poem, Script, Storyboard
- Images
- Audio,
- Video
- Smell, Taste



Structured Data

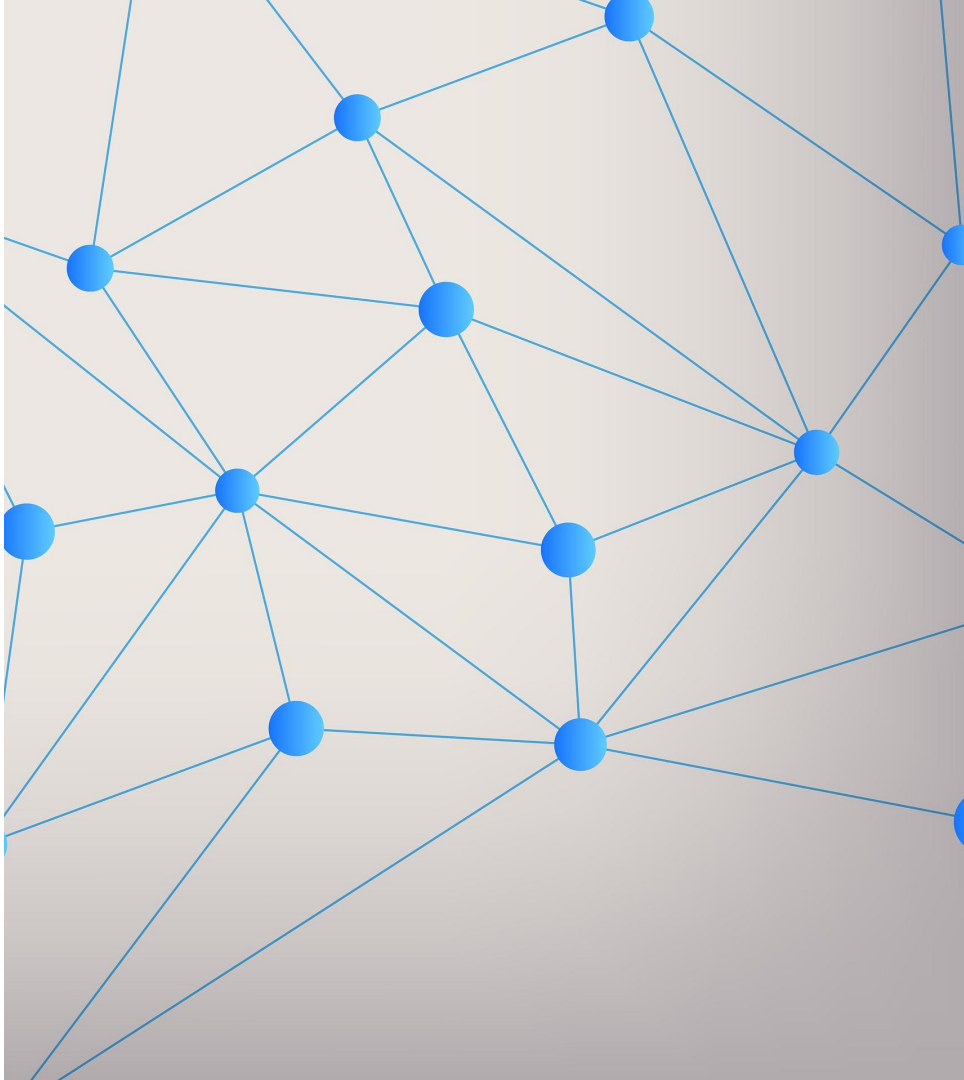
- List
- Table
- Comma Separated Values
- Database



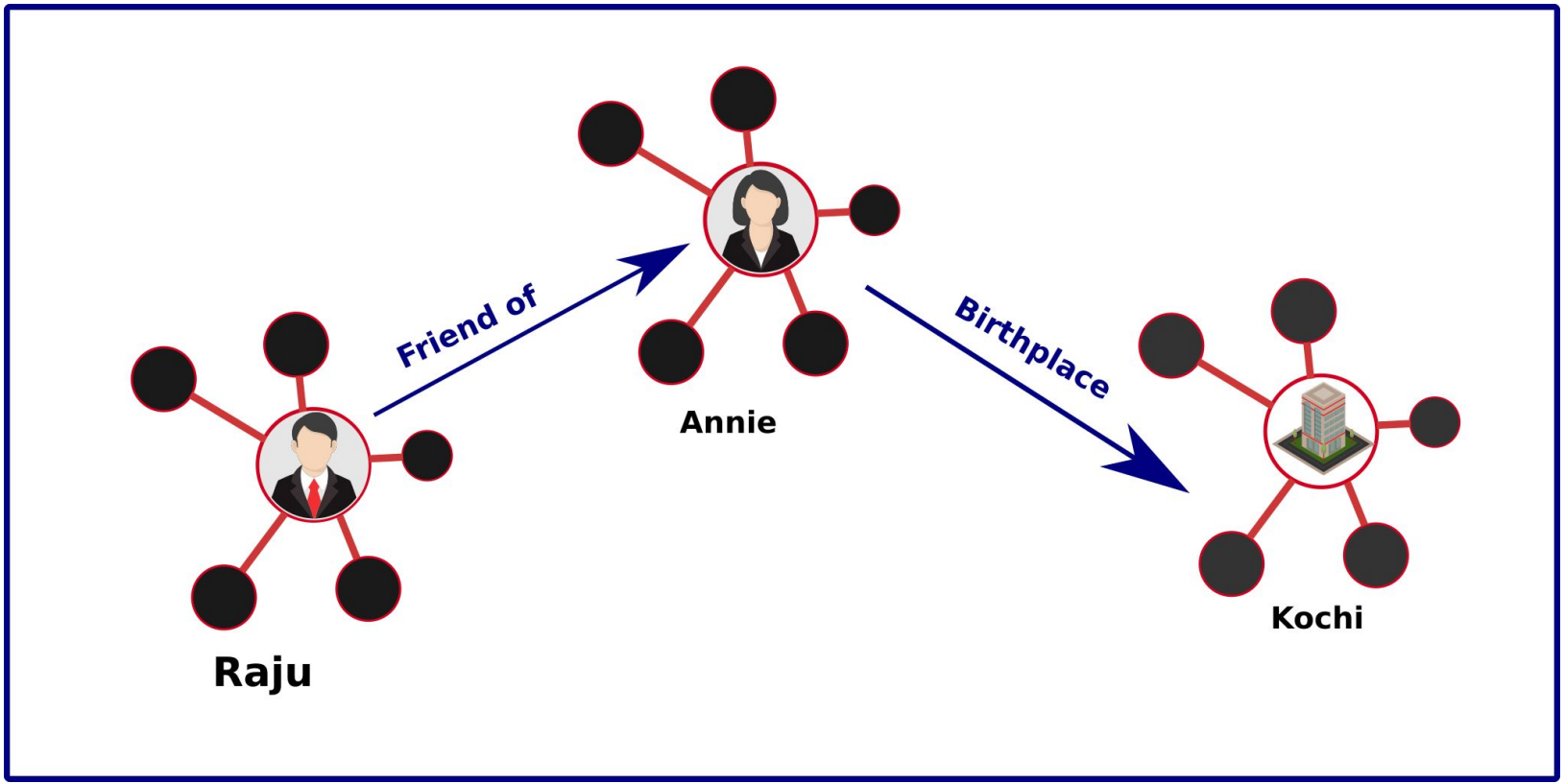
STRUCTURED DATA

Linked Data

One Data point is connected to another data through a condition



Linked Data



WIKIDATA

www.wikidata.org

What is Wikidata?

- Editable
- Structured and Linked Data Warehouse
- Available with Free License (CC0)

What is Wikidata?

- Pure Free Software, Pure free data (CC0) - Do whatever you want. No Questions asked
- Open and editable by anyone, including the ontology
- A sister project of Wikipedia, by Wikimedia
- Multilingual support from the first day
- More and more practically used in digital humanities

Structured and linked data

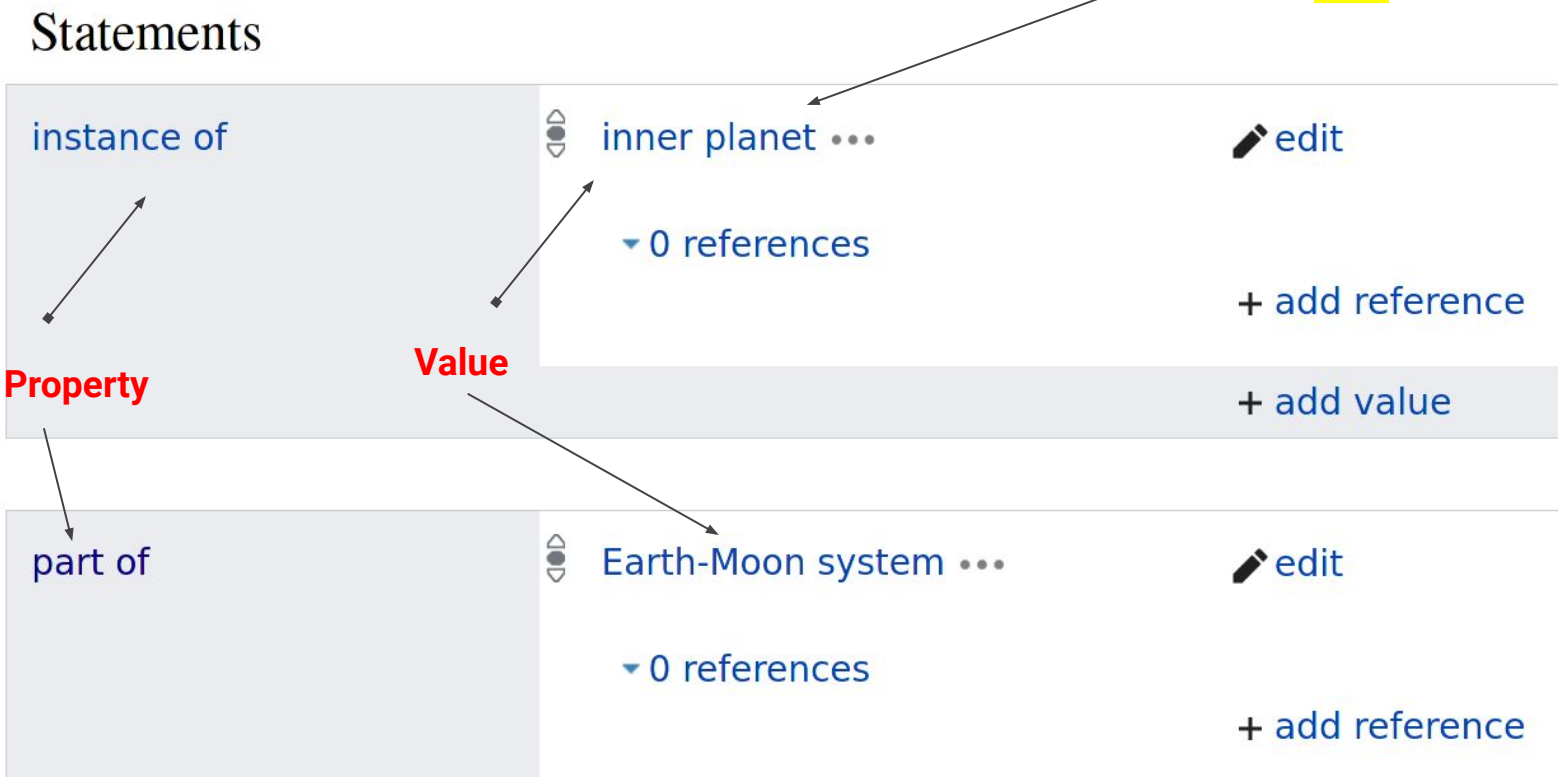
- Structured data: Each unit of information is described by three: **subject, predicate, and object or as Wikidata says: item, property, value.**
    - Each three can be further specified with restrictions - for other three (time period, context, source, point of view ...)
- Data statements link to each other, enabling discovery and reasoning.

A brief insight

- Universe (Q1)
- India(Q668)
- Thrissur (Q163798)
- and / instance of(P31) <- Property

Item: Earth (Q2)

Clickable Link
Connect to another Item



Structure of Wikidata

We have a Q (item)

Q have a property P

P have a value Another Q

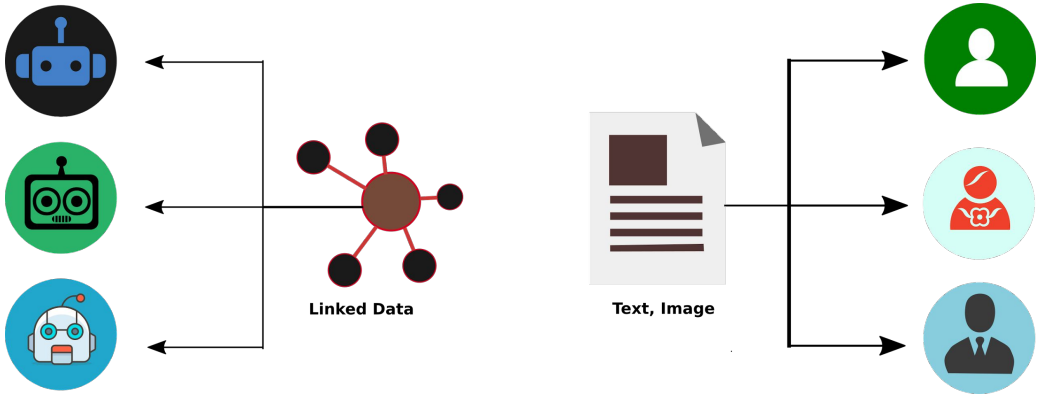
This is called a Statement

Statement = Item --> Property --> Value

Why Numbers ?

Language-neutral - not everybody speaks English!

Robot-friendly (robots love numbers ;)



So What is in Wikidata ?

Universe (Q1)

Pencil (Q14674)

Happy Birthday to You (Q167545)

global warming (Q7942)

Thrissur (Q163798)

God (Q190)

parish church (Q317557)

ice cream (Q13233)

friendship (Q491)

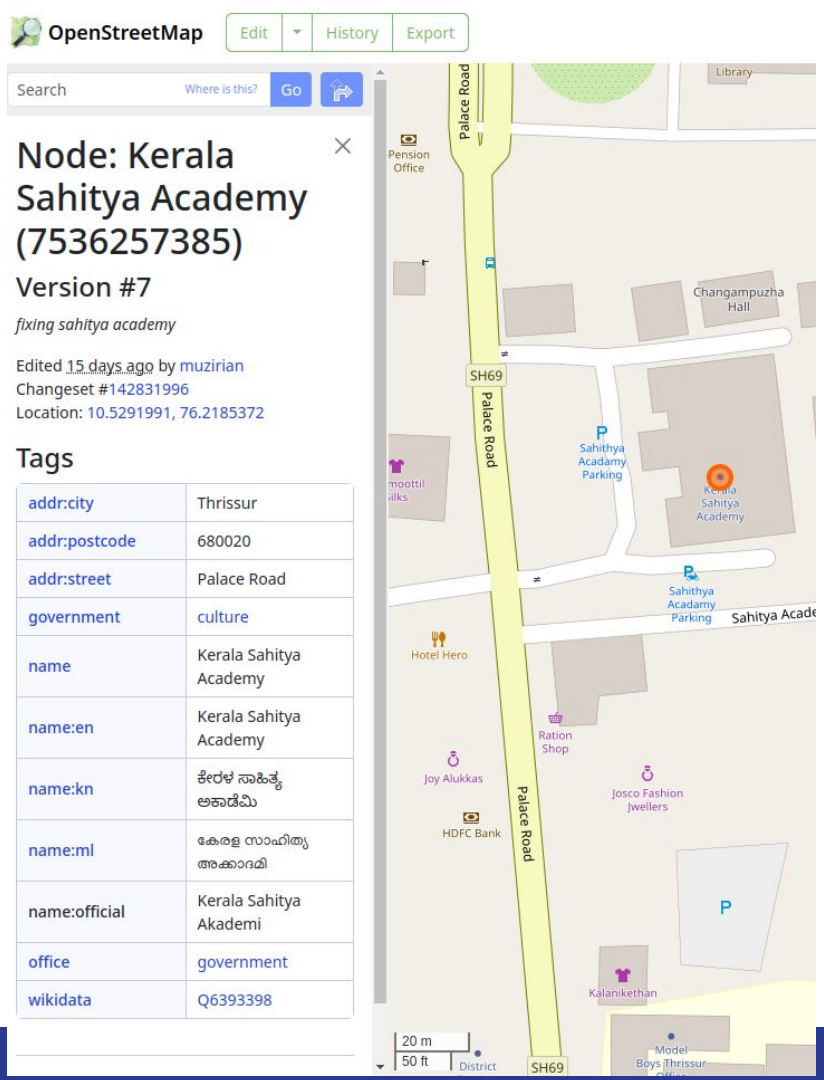
Everything in the Universe or Beyond

OpenStreetMap

- Collaborative built map
- Covers all over the world
- Anybody can edit
- Data in a open source license

OpenStreetMap

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

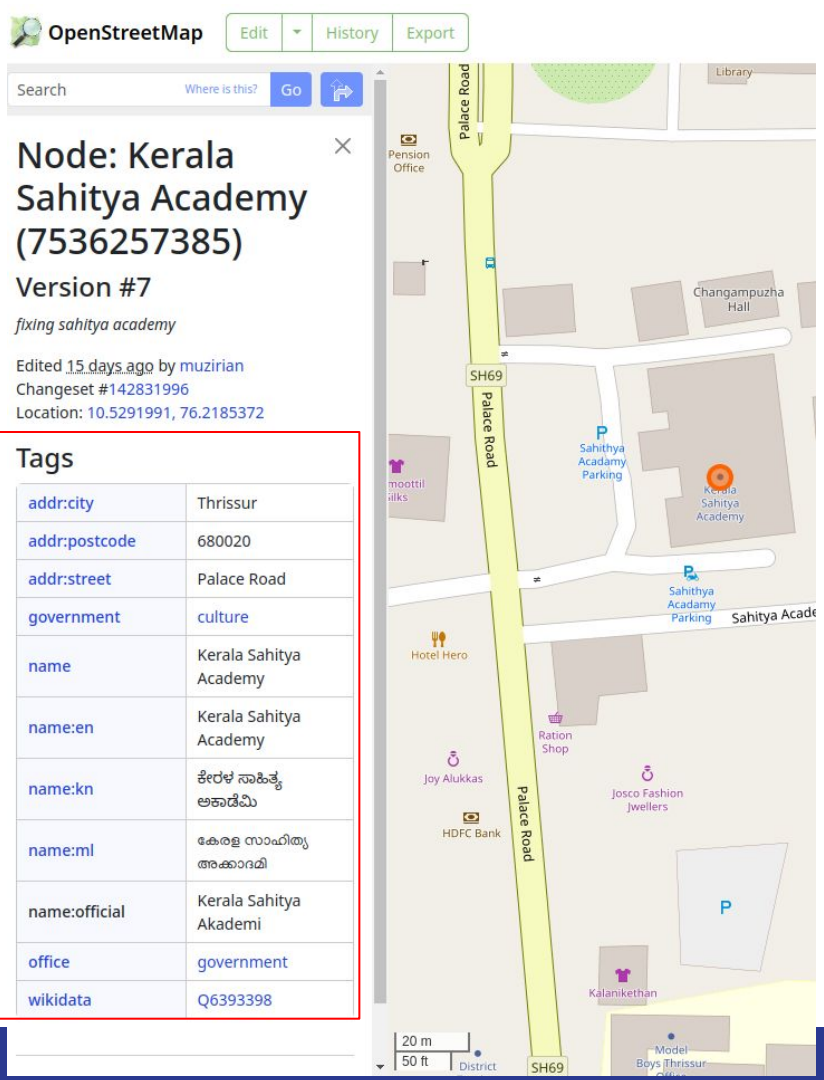


OpenStreetMap

- Objects can have tags

  Tags are key-value pairs

  (both arbitrary strings)

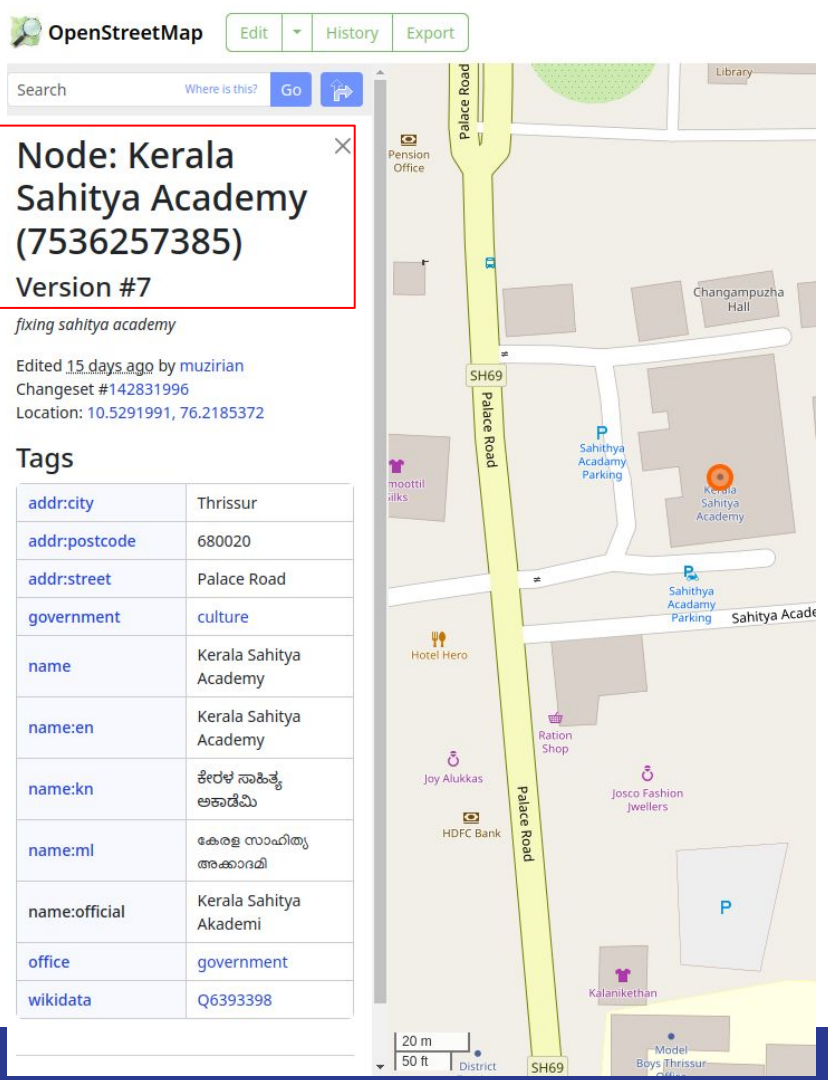


OpenStreetMap

Objects are uniquely identified by the type and ID

type: relation

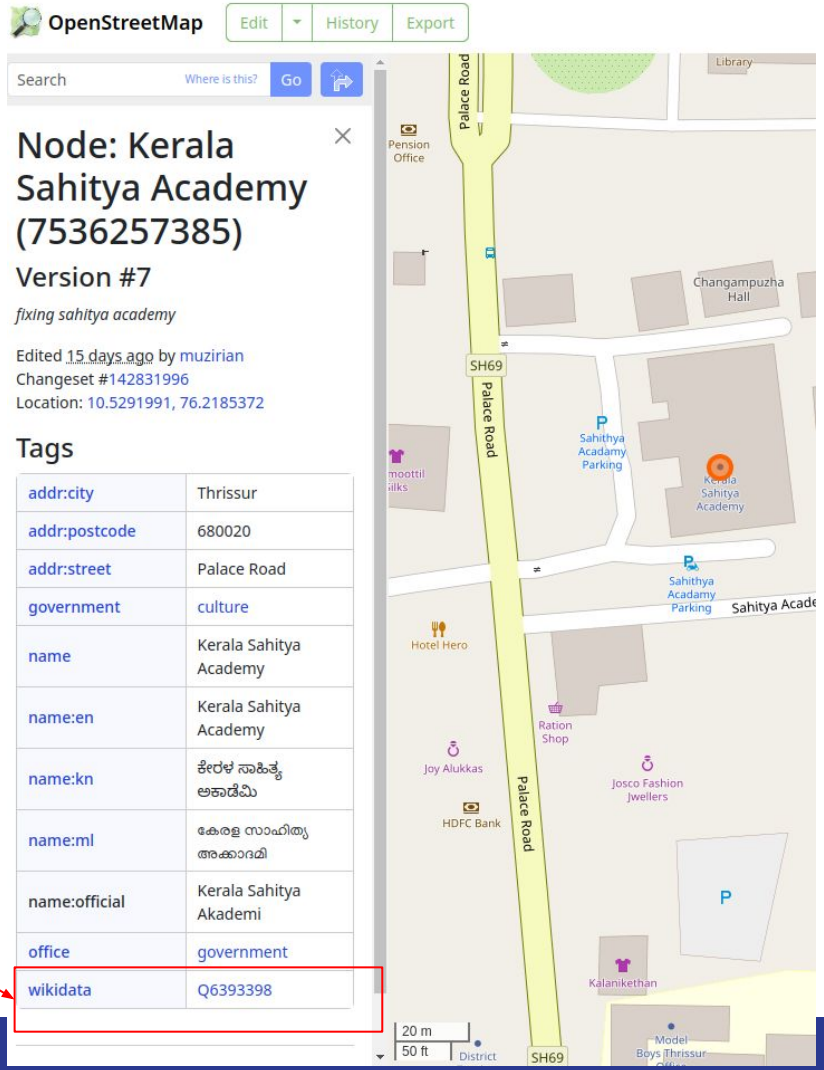
ID: 7536257385



Wikidata Tag

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

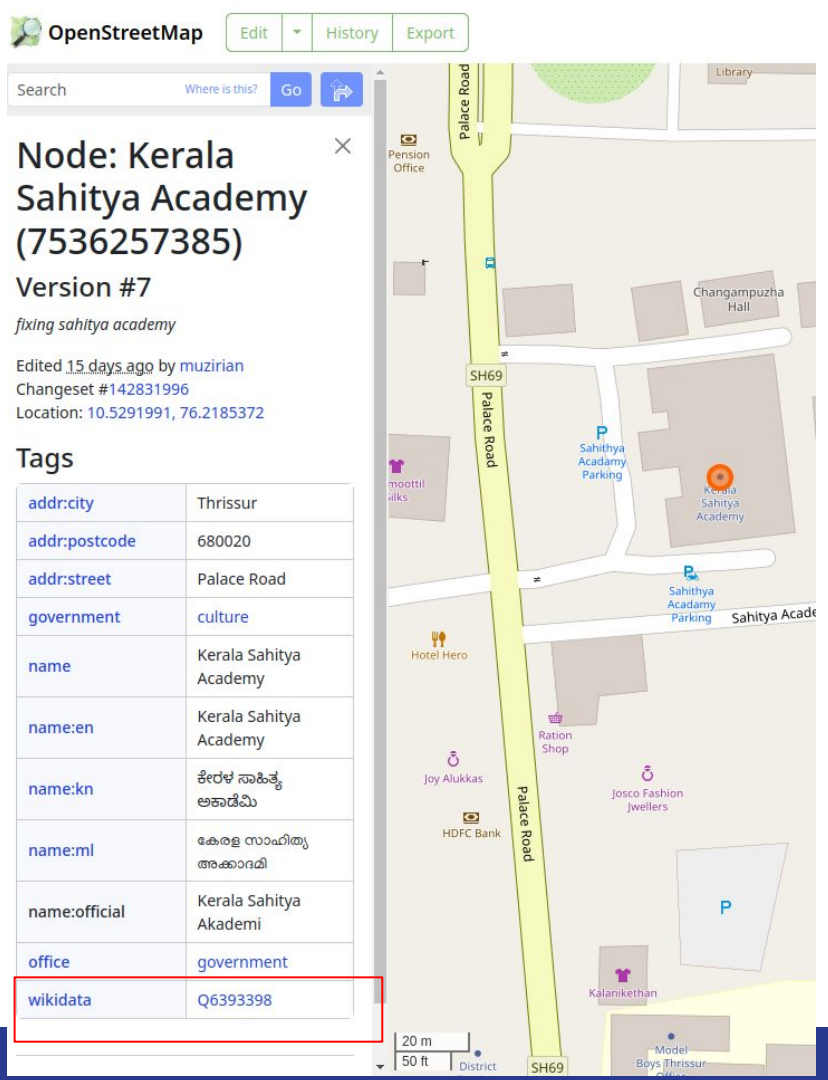
wikidata: Q6393398



Why connect ?

Wikidata links in OSM mean OSM can potentially access:

- Labels in more languages
- Wikipedia articles in multiple languages
- Wikimedia Commons Identifiers for other data catalogues
- Connection to other databases in the world



Category:Kerala Sahitya Akademi (Q13267096)

Categories (+⁺): Cultural organizations of Kerala (-) (±) (↓) (↑) | Buildings in Thrissur (-) (±) (↓) (↑) | 1956 establishments in India (-) (±) (↓) (↑) | Organisations based in Thrissur (-) (±) (↓) (↑) | Arts organisations based in India (-) (±) (↓) (↑) | Government buildings in Thrissur (-) (±) (↓) (↑) | 1956 in Kerala (-) (±) (↓) (↑) | (+)

Non-topical/index: Uses of Wikidata Infobox | Uses of Wikidata Infobox with no coordinate

From Wikimedia Commons, the free media repository

10 revisions since 2012-01-09 (+1,771 days), 6 editors, 8 pageviews (30 days), created by: Manojk (16,997) · See full page statistics

Wikidata: Category:Kerala Sahitya Akademi (Q13267096), *Wikimedia category*
Aliases: None

Subcategories

This category has the following 9 subcategories, out of 9 total.

A
- Kerala Sahitya Akademi Award (1 C, 1 F)

C
- Cherupaithangal Digital Release Kerala Sahithya Academy (18 F)

F
- Files from the keralasahityaakademi.org website (2 C, 49 F)

K
- Kerala Sahitya Academy Wikisource Project (1 C, 6 F)

M
- Malayalam WikiAcademy 2 Thrissur (1 C, 10 F)
- Vyloppilli Sreedhara Menon (1 C, 2 F)

S
- Scans from Kerala Sahitya Akademi (41 F)

W
- Wiki Meetup 2014 Kerala Sahithya Academy (33 F)
- Wiki-Kerala Sahithya Akademy 2015 (11 F)

Pages in category "Kerala Sahitya Akademi"

This category contains only the following page.

K
- Template:Kerala Sahitya Akademi

Media in category "Kerala Sahitya Akademi"

The following 34 files are in this category, out of 34 total.

100%

Book releasing of Laloorinu Parayanullathu.jpg
1,000 × 422; 85 KB

Inauguration of D.F.M.F Film Festival.jpg
1,000 × 471; 95 KB

Kerala Sahithya Academy DSC 8775.jpg
3,072 × 4,608; 5.73 MB

Kerala Sahitya Akademi Changampuzha Hall Thrissur.jpg
1,280 × 957; 377 KB

Kerala Sahitya Akademi DSC 8728..JPG
4,608 × 3,072; 3.74 MB

Kerala Sahitya Akademi DSC 8776..JPG
4,608 × 3,072; 6.36 MB

Kerala Sahitya Akademi DSC 8781..JPG
3,072 × 4,608; 7.45 MB

Kerala Sahitya Akademi DSC 8785..JPG
3,072 × 4,608; 6.5 MB

Kerala Sahitya Akademi DSC 8794..JPG
3,072 × 4,608; 5.78 MB

Kerala Sahitya Akademi [Collapse]

autonomous body to promote the Malayalam language and literature

Upload media

Wikipedia

Instance of	nonprofit organization
Industry	literature
Location	Thrissur district, Kerala, India
Headquarters location	Thrissur
Inception	1956
	official website

Authority file [Collapse]

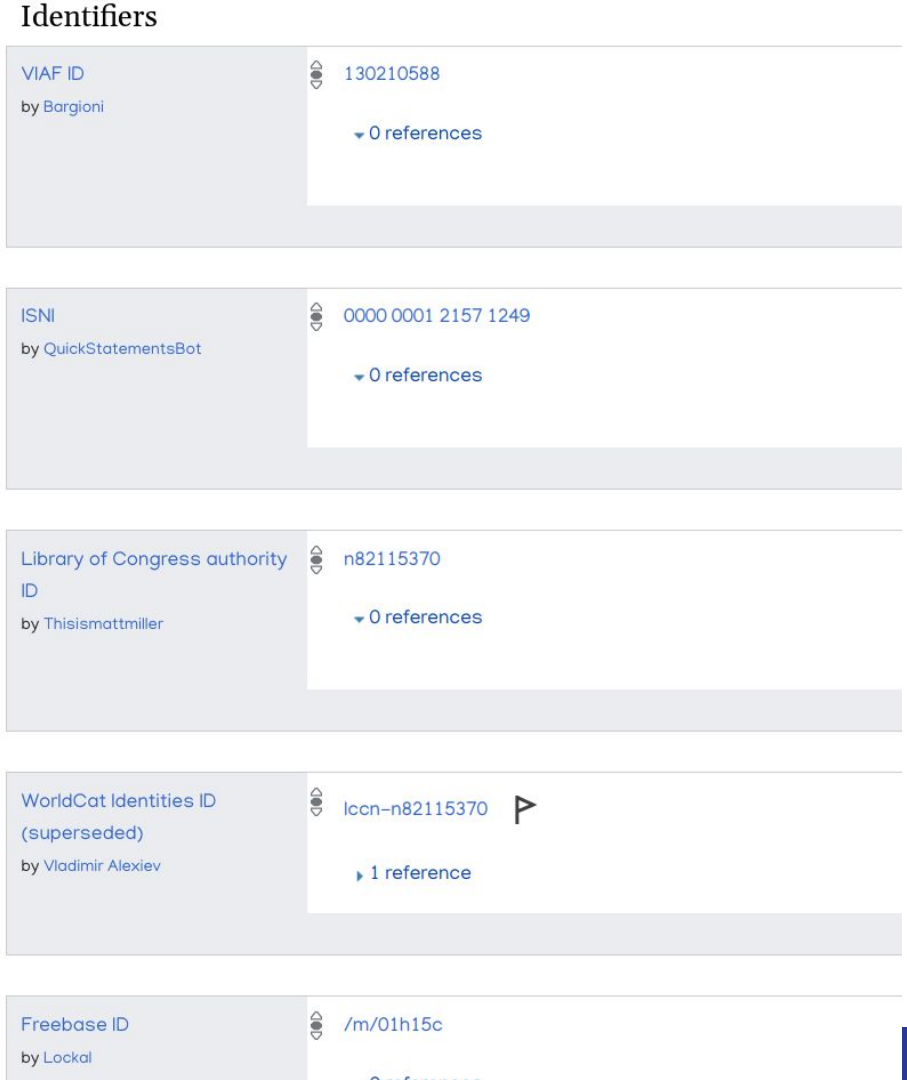
Q6393398
ISNI: 0000 0001 2157 1249
VIAF ID: 130210588
Library of Congress authority ID: n82115370
Reasonator · Scholia · Wikidocumentaries · PetScan · statistics · WikiMap · Locator tool · KML file ·
Search depicted

In more languages

Language	Label	Description	Also known as
English	Kerala Sahitya Akademi by Skldbot	autonomous body to promote the Malayalam language and literature by Ffffrr	
Canadian English	Kerala Sahitya Akademi by Nikosguard	No description defined	
British English	Kerala Sahitya Akademi by Nikosguard	No description defined	
Hindi	No label defined	No description defined	
Malayalam	കേരള സാഹിത്യ അക്കാദമി by Skldbot	മലയാളഭാഷയെയും അതിന്റെ സാഹിത്യപൈതൃകത്തെയും സംരക്ഷിക്കാനും പ്രോത്സാഹിപ്പിക്കാനും സ്ഥാപിച്ച ഒരു സ്വയംഭരണ സ്ഥാപനമാണ് by Ranjithsiji	Kerala Sahithya Academy by Skldbot
Bangla	কেরল সাহিত্য অকাদেমি	No description defined	
German	No label defined	indische Non-Profit-Organisation	
Greek	Κεράλα Σαχίτγια Ακαντεμί	No description defined	
Spanish	Academia Sahitya de Kerala	No description defined	Kerala Sahitya Akademi
Indonesian	Kerala Sahitya Akademi	No description defined	
Japanese	ケラーラ・サーヒトヤアカデミー	No description defined	
Odia	କେରଳ ସାହିତ୍ୟ ଏକାଡେମୀ	No description defined	
Urdu	کیرالہ ساہتیہ اکادمی	No description defined	
Chinese	马拉雅拉姆语文学协会	No description defined	
Simplified Chinese	马拉雅拉姆语文学协会	No description defined	
Traditional Chinese	馬拉雅拉姆語文學協會	No description defined	

More Identifiers

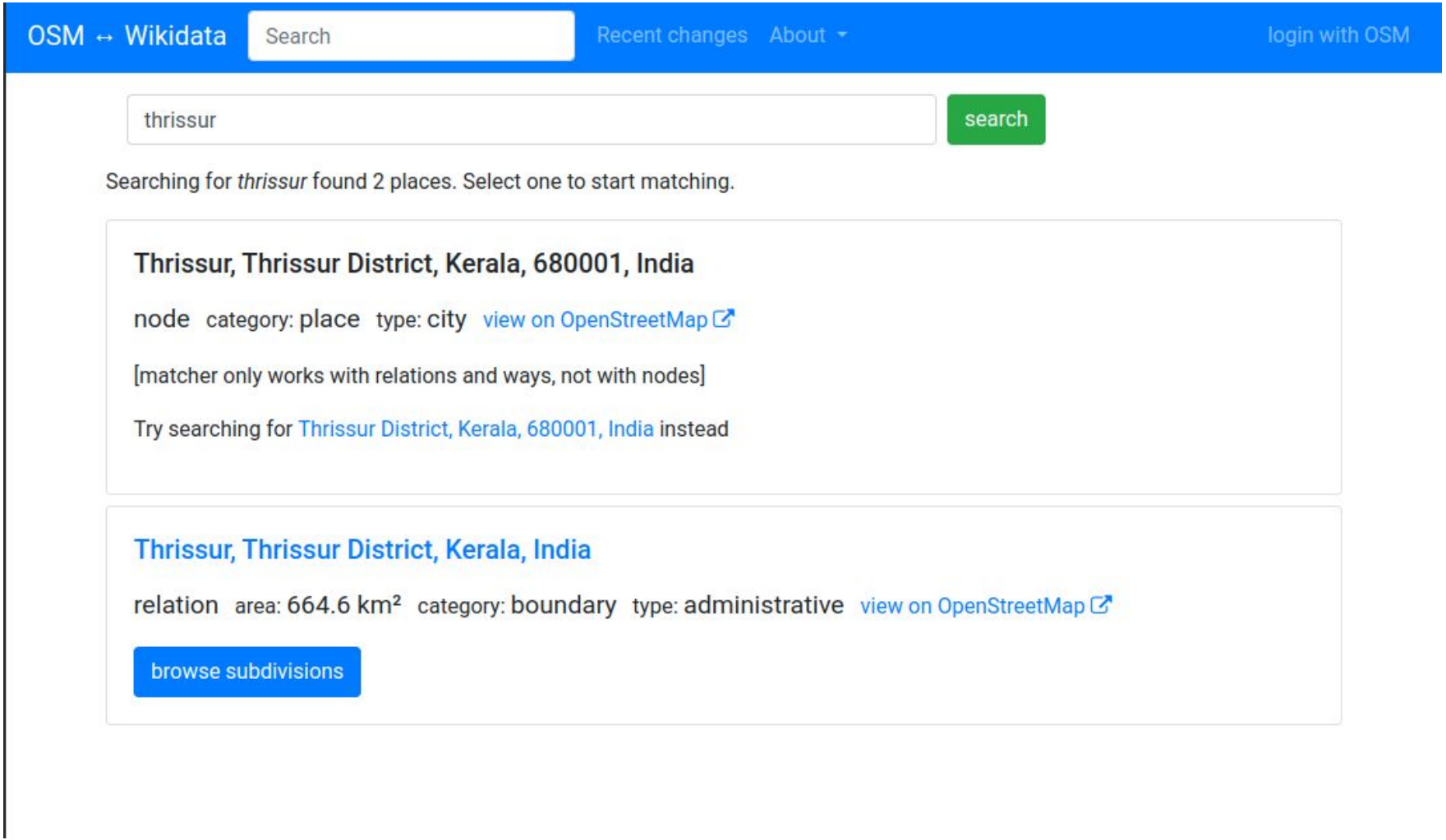
Items on Wikidata includes identifiers for other data catalogues



Adding Wikidata links
to OpenStreetMap
individually is time
consuming
Better to automate it

osm.wikidata.link

Web interface for linking places in OSM to Wikidata


OSM ↔ Wikidata
Search
Recent changes
About
login with OSM
thrissur
search
Searching for *thrissur* found 2 places. Select one to start matching.
Thrissur, Thrissur District, Kerala, 680001, India
node category: place type: city view on OpenStreetMap
[matcher only works with relations and ways, not with nodes]
Try searching for Thrissur District, Kerala, 680001, India instead
Thrissur, Thrissur District, Kerala, India
relation area: 664.6 km² category: boundary type: administrative view on OpenStreetMap
browse subdivisions

map.osm.wikidata.link

Second version of the tool.

Still in Beta

place search

item type filter

Map key

- Wikidata item without OSM link
- Wikidata item with OSM link
- Linked OSM object

Map filters | Items

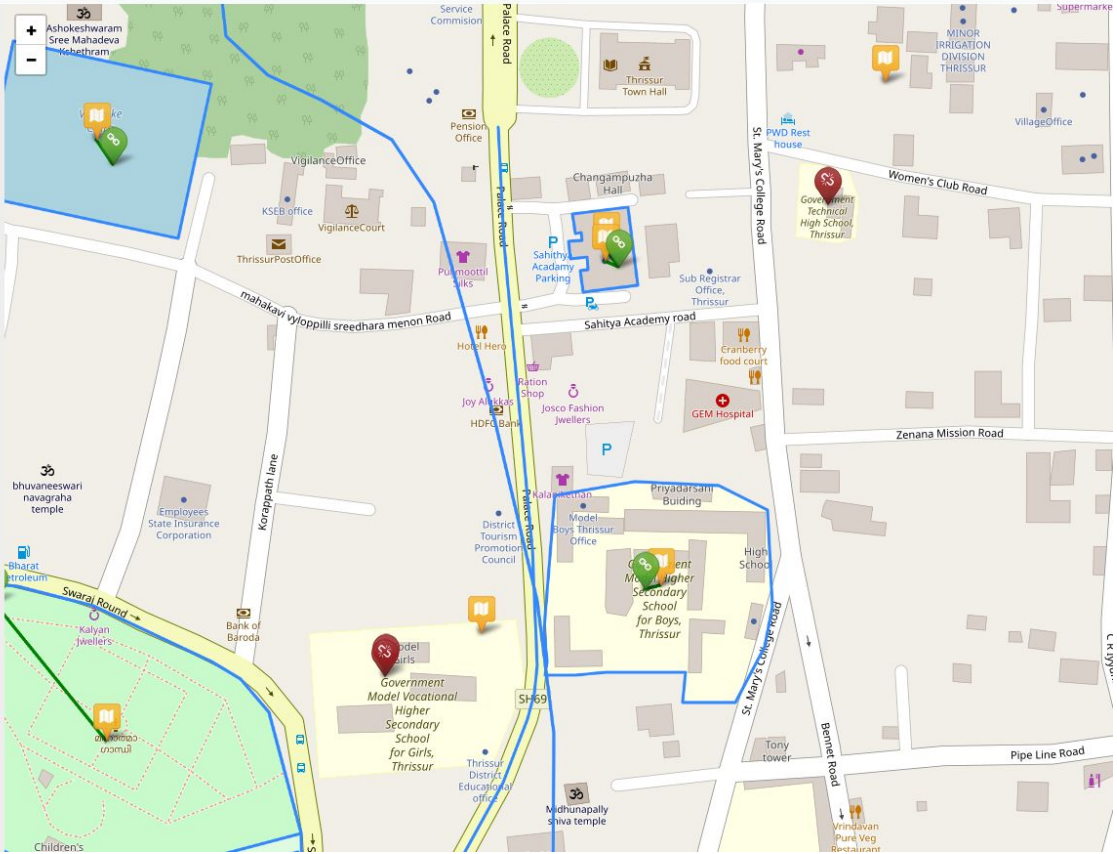
OSM/Wikidata link status

- [x] Wikidata items tagged in OSM 13
- [x] Wikidata items not tagged in OSM 8

item types

select all | clear selection

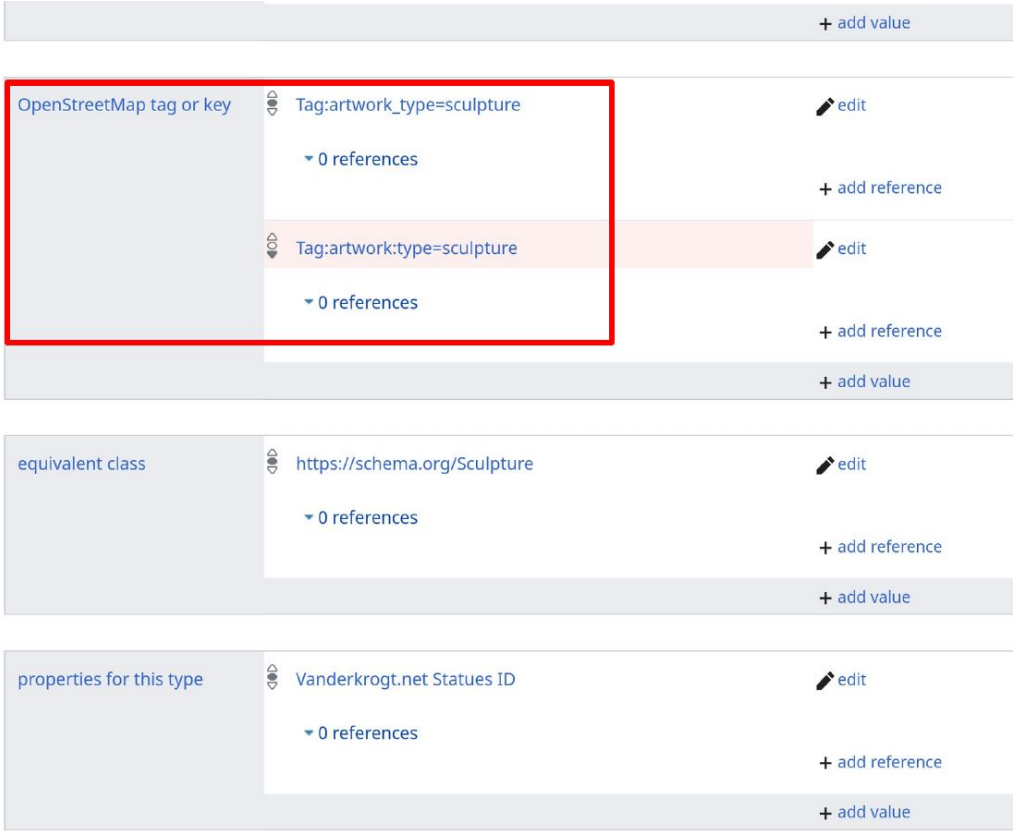
- [x] higher secondary school (Q64062731) only 2
- [x] lower primary school (Q64063317) only 1
- [x] high school (Q9826) only 1
- [x] nonprofit organization (Q163740) only 1
- [x] lake (Q23397) only 1



Osm Tag

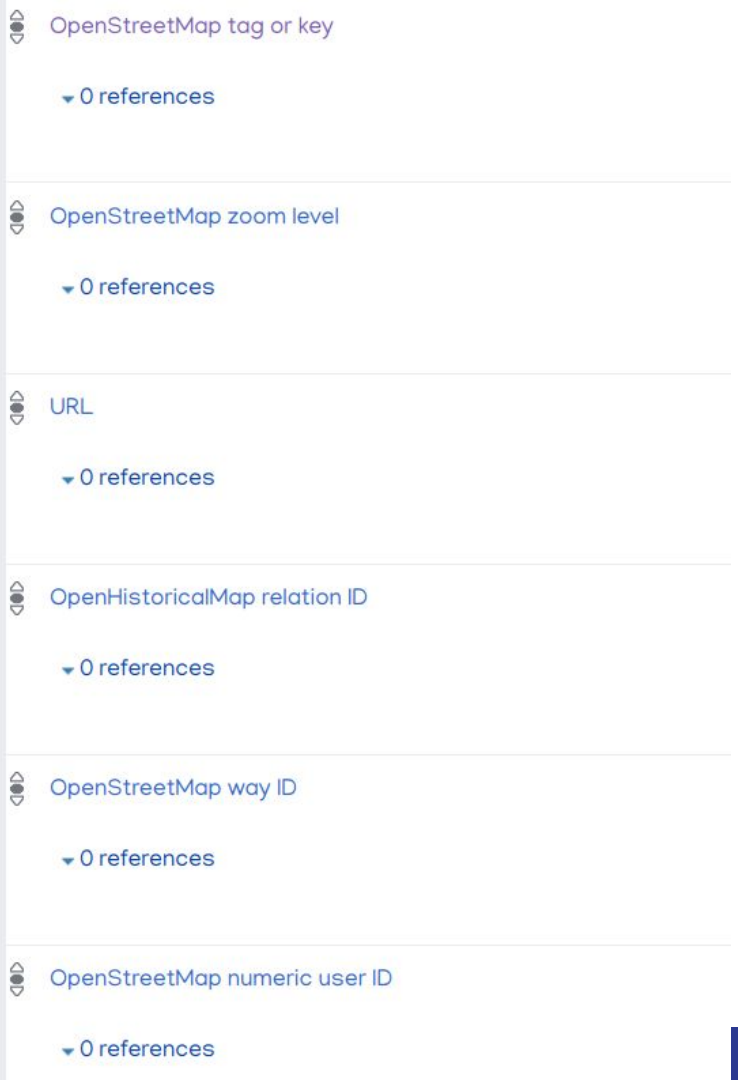
Wikidata has a property for OpenStreetMap tag or key

The Wikidata item for sculpture has the OSM tag ‘artwork_type=sculpture’



Osm Tags in Wikidata

Wikidata has more properties related to OSM.



Wikidata Projects

Wikiproject India

https://w.wiki/tQ

Wikiproject Kerala

https://w.wiki/CvD

COVID-19 Taskforce

https://w.wiki/bwA

OpenStreetMap Projects

OpenStreetMap India

https://wiki.openstreetmap.org/wiki/India

OpenStreetMap Kerala

https://wiki.openstreetmap.org/wiki/Kerala

Video Training about Wikidata

Video by Asaf Bartov

https://www.youtube.com/watch?v=eVrAx3AmUvA

http://bit.ly/wikidatavideo

Wikidata, Knowledge Graphs, and Beyond

Denny Vrandecic, founder of Wikidata.

https://www.youtube.com/watch?v=Oips1aW738Q

Video in Malayalam

Video by Mujeeb Rahman

https://www.youtube.com/watch?v=JoVCzvDjd78

http://bit.ly/wikidataml

Now that you have the power. This is just a beginning.

Questions ?

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Wikimedians of Kerala User Group

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- Photo of Jimmy Wales by Joi Ito - https://commons.wikimedia.org/wiki/File:JimmyWalesJI5.jpg
- Linking Opendata Cloud Diagram - https://commons.wikimedia.org/wiki/File:Lod-cloud_2019-03-29.png
- Crotos art browser - http://zone47.com/crotos/?l=en
- Histropedia - http://histropedia.com/timeline/
- Wikidata timeline - https://wikidata-timeline.toolforge.org/
- Malayalam Wikidata Logo by Jinoytommanjaly - https://commons.wikimedia.org/wiki/File:Wikidata-ml.svg
- Robot Icons - https://commons.wikimedia.org/wiki/File:Cib-probot_(CoreUI_Icons_v1.0.0).svg , https://commons.wikimedia.org/wiki/File:Noun_Robot_212089_4380c9.svg, https://commons.wikimedia.org/wiki/File:092-robot-face-1.svg
- Human Icons - https://commons.wikimedia.org/wiki/File:Wikimania2019_person_icon.svg,
- Text icon - https://commons.wikimedia.org/wiki/File:Icon-txt.svg