Wikidata Workshop – Theoretical part

Wikidata basics, Wikidata for science & research

https://commons.wikimedia.org/wiki/File:Wikidata-map-2023-06-26-items-intensity-100.png, Addshore, CC0, via Wikimedia Commons

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Q66439268

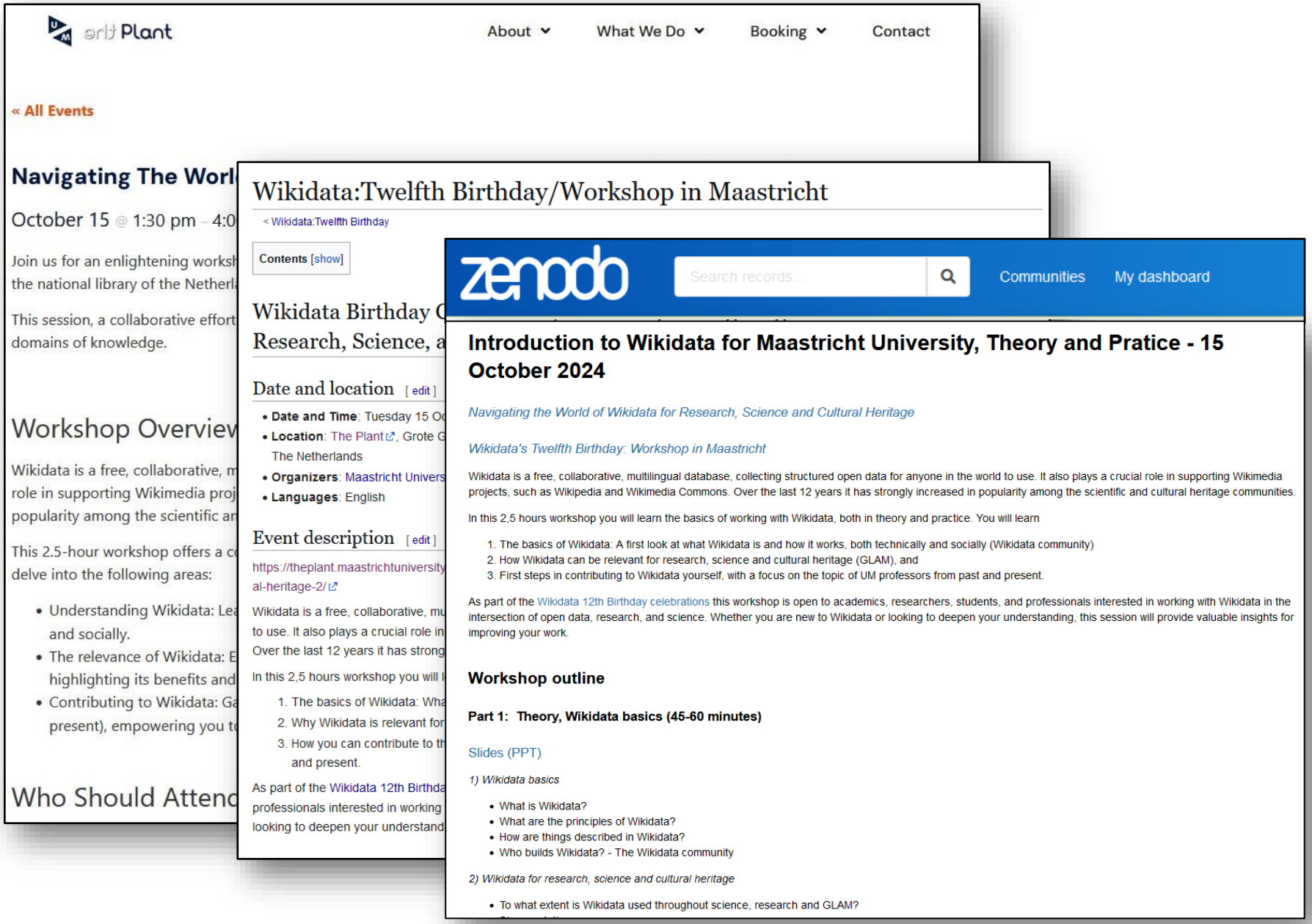
KB nationale bibliotheek

WIKIDATA

Maastricht University

Maastricht University, Tue 15 October 2024

https://zenodo.org/records/13837957

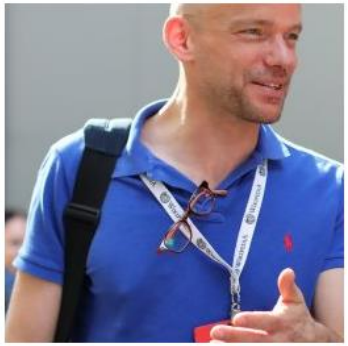


- https://theplant.maastrichtuniversity.nl/event/navigating-the-world-of-wikidata-for-research-science-and-cultural-heritage-2/
- https://www.wikidata.org/wiki/Wikidata:Twelfth_Birthday/Workshop_in_Maastricht
- https://zenodo.org/records/13837957

About me

KB national library of the netherlands

Olaf Janssen



Olaf Janssen is open data & Wikimedia coordinator at the KB. He initiates, stimulates and facilitates collaboration between the collections, knowledge, open data and employees of the KB on the one hand and the projects of the Wikimedia movement on the other. Consider, for example, Wikipedia, Wikimedia Commons, Wikidata and Wikibase and the communities that belong to them. Olaf fulfills a national advisory role for other organizations in the field of heritage and knowledge. He is also active as a volunteer within the Wikimedia movement.

WIKIPEDIA

WIKIMEDIA COMMONS

WIKIDATA

Contact

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- e-mailadres: olaf.janssen@kb.nl
- Twitter: Olaf Janssen
- LinkedIn: Olaf Janssen

Expertises

- Wikipedia
- Wikimedia
- Wikidata
- Wikibase
- bibliotheken

Netwerk en samenwerking

- Wikimedia-netwerk (Wikipedia, Wikimedia Commons en Wikidata communities)
- Vereniging Wikimedia Nederland

https://www.kb.nl/over-ons/experts/olaf-janssen

Structure of this afternoon (2.5 hrs)

Part 1: Theory, Wikidata basics

(45-60 minutes)

https://commons.wikimedia.org/wiki/File:Kulutusosuuskuntien_Keskusliiton_kokoelma_D1974_7745B_(30278259323).jpg , Finnish Museum of Photography, No restrictions, via Wikimedia Commons

Break

(15 minutes)

Part 2: Practice, contributing to Wikidata

(75-90 minutes)

By the end of today, I hope you understand...

1. Wikidata basics - what it is, how it works, technically and socially

2. How Wikidata can be relevant for research, science and cultural heritage

3. First steps in contributing to Wikidata yourself, focused on UM professors

Part 1, Theory

Wikidata basics

1. What is Wikidata?
2. What are the principles of Wikidata?
3. How are things described in Wikidata?
4. Who builds Wikidata? - The Wikidata community

Wikidata for research, science and cultural heritage

5. To what extent is Wikidata used throughout science, research and GLAM?
6. Six anecd*a*tic cases
    1. Scientometrics - Scholia
    2. Life and biomedical sciences
    3. Astronomy
    4. Language technology / AI / LLMs
    5. GLAM – KB collection highlights
    6. Representation of (female) scientists

WIKIDATA

1) What is Wikidata?

A collection of structured data

Something with the sematic web?

A linked open database

Data for humans *and* machines

Data for everybody

Linked data, but now understandable

LOD, but without the complexity of LOD

A central hub for 9000+ databases

A (academic) research project

Public counterpart of commercial big tech data collections

A sibling of Wikipedia

A free LOD general utility

A training tool for (LO)D skill development

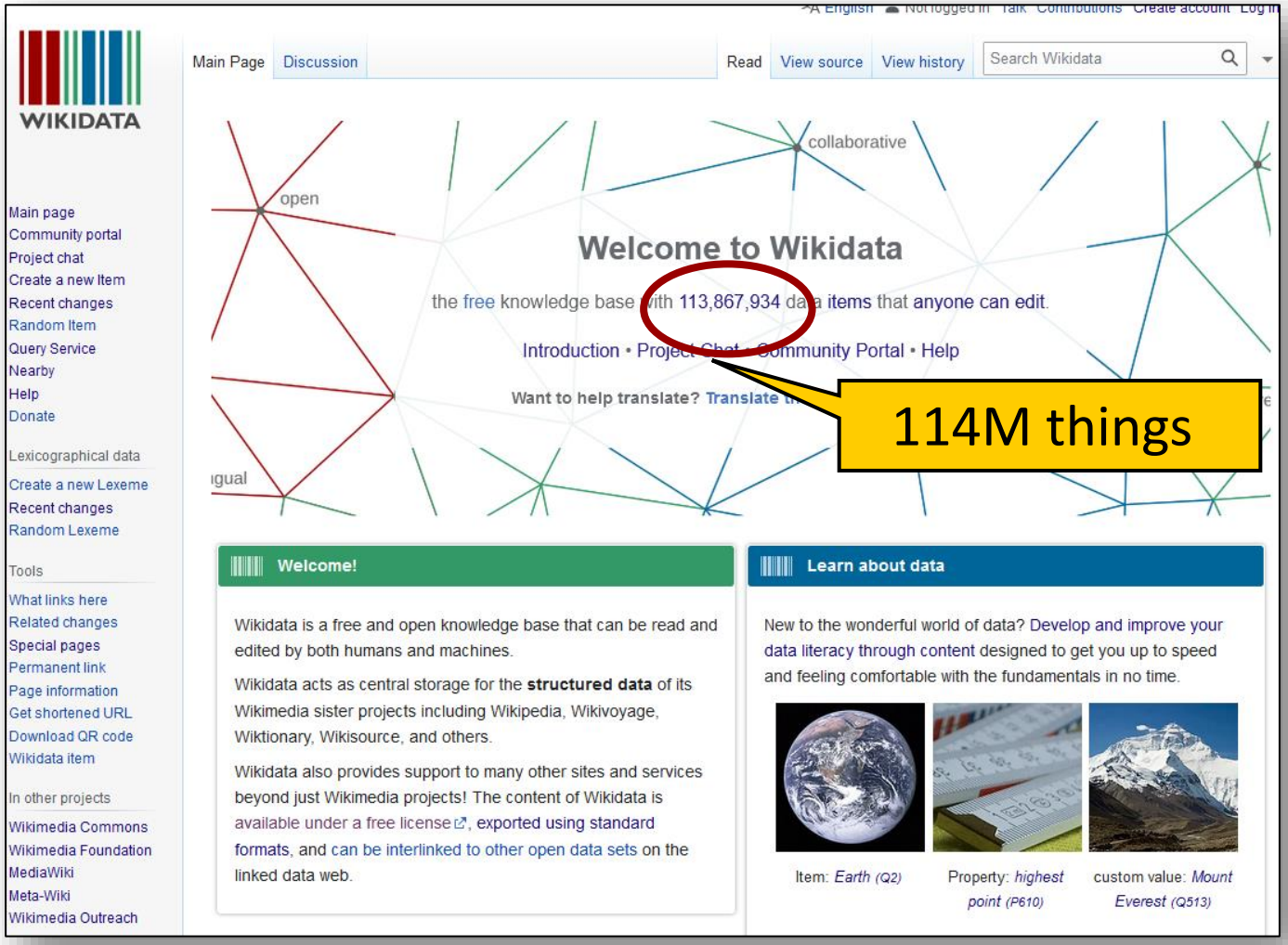
A global community of data enthusiasts / nerds

The coolest LOD project ever!

Wikidata contains structured descriptions of ‘things’….

All sorts of ‘things’…


Eiffel Towe
Utrakket Valley
Valley in Queen Maud Land
Bad Attitude (Q54869144)
Reset : my fight for inclusion and lasting change (Q43397048)
Juanita Kidd Stout
American judge
2021 Catalan parliame
(Q48838589)
Constitutive synthesis of urease in Aerobacter aerogenese PRL-R3. The effect of different nitrogenous compounds on its
Cymbionotum schue
Fantasiestücke, Op. 88 (Q115896515)
5C 5.232 (Q80604821)
(Q105253649)
asseltsedijk (Q19191055)
Heaven's Stai
Aileen S
researcher
Koninklijke Bibliotheek (Q1526131)
National Library of the Netherlands
Dutch Royal Library | Royal Library of the Netherlands



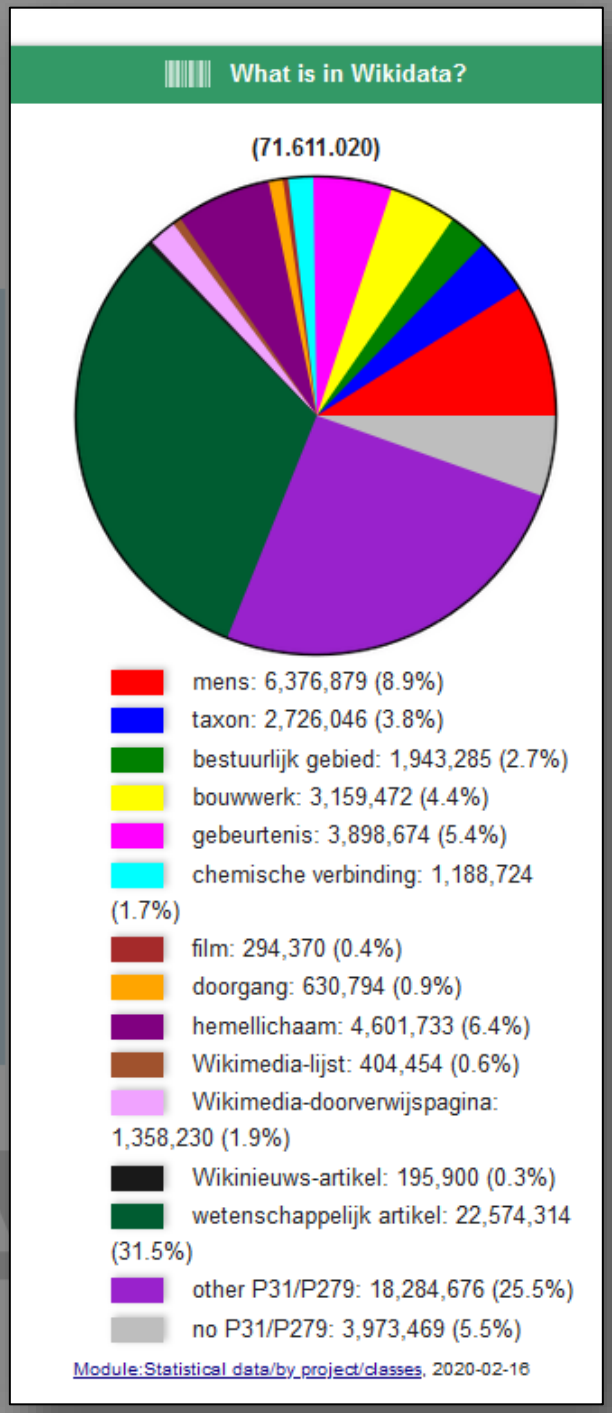
https://www.wikidata.org, screenshot 01-10-2024 -- https://www.wikidata.org/wiki/Wikidata:Statistics, dd 01-10-2024

Wikidata describes all sorts of things

114M things, since October 2012

- Scientific articles
- People
- Animals and plants
- Events
- Countries, provinces, municipalities, cities, villages
- Streets, roads, squares
- Buildings
- Vehicles
- Companies and institutions
- Artworks (film, music, paintings etc.)
- Chemical substances
- Astronomical objects
- Genes…
- Etc.

https://www.wikidata.org/wiki/Wikidata:Statistics



Very broad *and* very specific, eg. 892 Van Gogh paintings

image	label	description
	Still Life with Beer Mug and Fruit	painting formerly attributed to Vincent van Gogh
	Still Life with Cabbage and Clogs	painting by Vincent van Gogh, 1881
	Still Life with Clogs	painting by Vincent van Gogh
	Peasant digging	painting by Vincent van Gogh (F12)
	Girl in the Woods	painting by Vincent van Gogh
	View of the Sea at Scheveningen	painting by Vincent van Gogh

	Head of a Peasant Woman	painting by Vincent van Gogh (NG6648)
	Still Life with Plate, Vase and Flowers	painting previously attributed to Vincent van Gogh
	Congregation Leaving the Reformed Church in Nuenen	painting by Vincent van Gogh
	Weaver Facing Right (Half-Figure)	painting by Vincent van Gogh
	Weaver at the Loom	painting by Vincent van Gogh

	The restaurant Rispal in Asnieres	painting by Vincent van Gogh
	Lilacs	painting by Vincent van Gogh
	Restaurant de la Sirène à Asnières	painting by Vincent van Gogh
	Bridges across the Seine at Asnieres	painting by Vincent van Gogh
	Self-Portrait with Straw Hat	painting by Vincent van Gogh, 1887
		

	An Old Woman of Arles	painting by Vincent van Gogh, 1888
	Wheatfield	painting by Vincent van Gogh, 1888
	Seascape near Les Saintes-Maries-de-la-Mer	painting by Vincent van Gogh, 1888
	Portrait of Camille Roulin	painting by Vincent van Gogh, 1888
	Portrait of Gauguin	painting by Vincent van Gogh, 1888
	Almond Tree in Blossom	painting by Vincent van Gogh, 1888

	Sunny Lawn in a Public Park	Vincent van Gogh painting
	Flowering Garden	painting by Vincent van Gogh
	Portrait of Patience Escalier	painting by Vincent van Gogh

	Stairway at Auvers	painting by Vincent van Gogh
	Garden in Auvers	Vincent van Gogh painting
	The Fields	painting by Vincent van Gogh

	Street in Saintes-Maries	painting by Vincent van Gogh
	Rocks	painting by Vincent van Gogh (MFAH)
	Sunset at Montmajour	painting by Vincent van Gogh

https://www.wikidata.org/wiki/Wikidata:WikiProject_sum_of_all_paintings/Creator/Vincent_van_Gogh, 01-10-2024

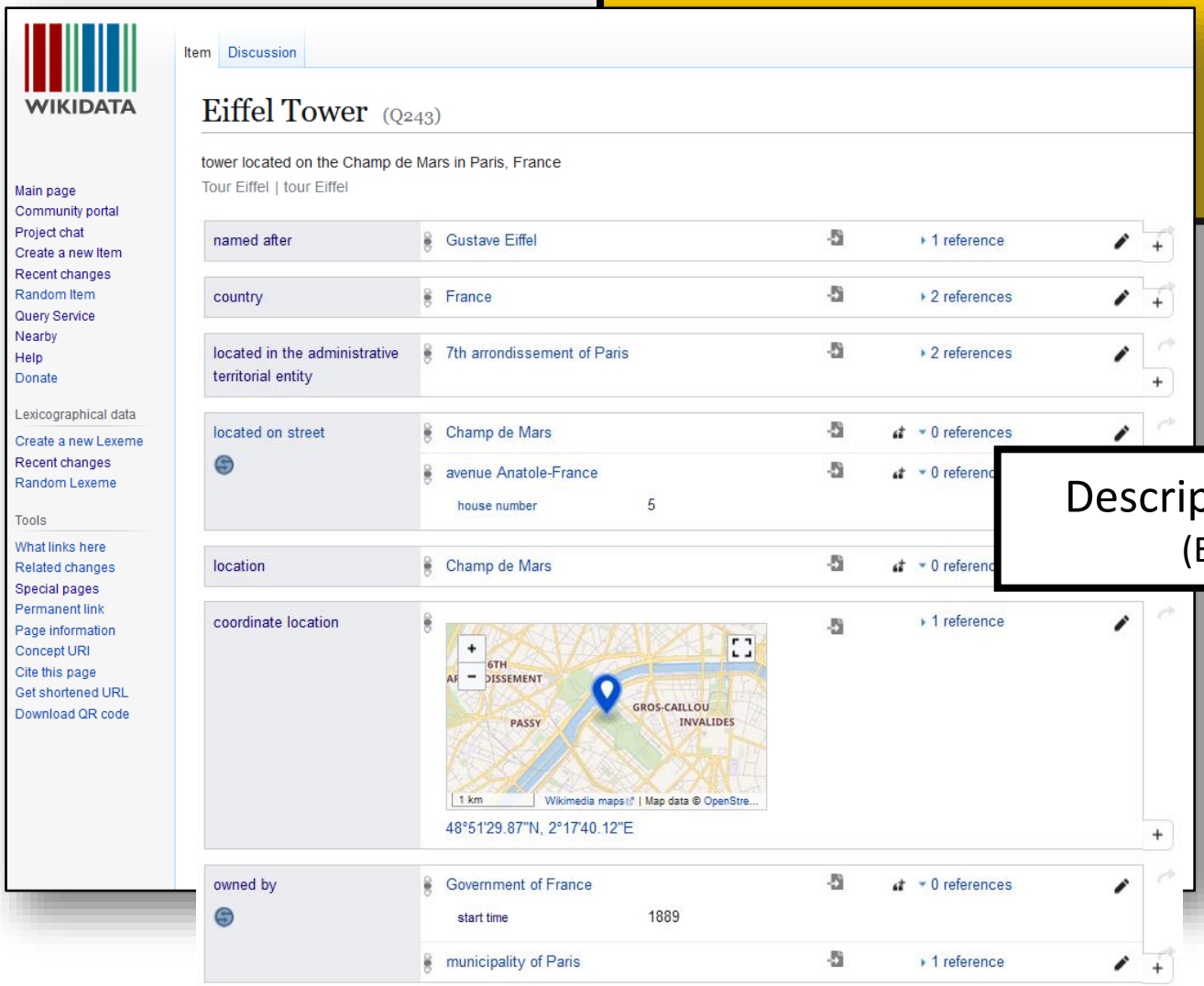
Wikidata items with geolocations, June 2023

https://commons.wikimedia.org/wiki/File:Wikidata-map-2023-06-26-items-intensity-100.png, Addshore, CC0, via Wikimedia Commons

2) What are the principles of Wikidata?

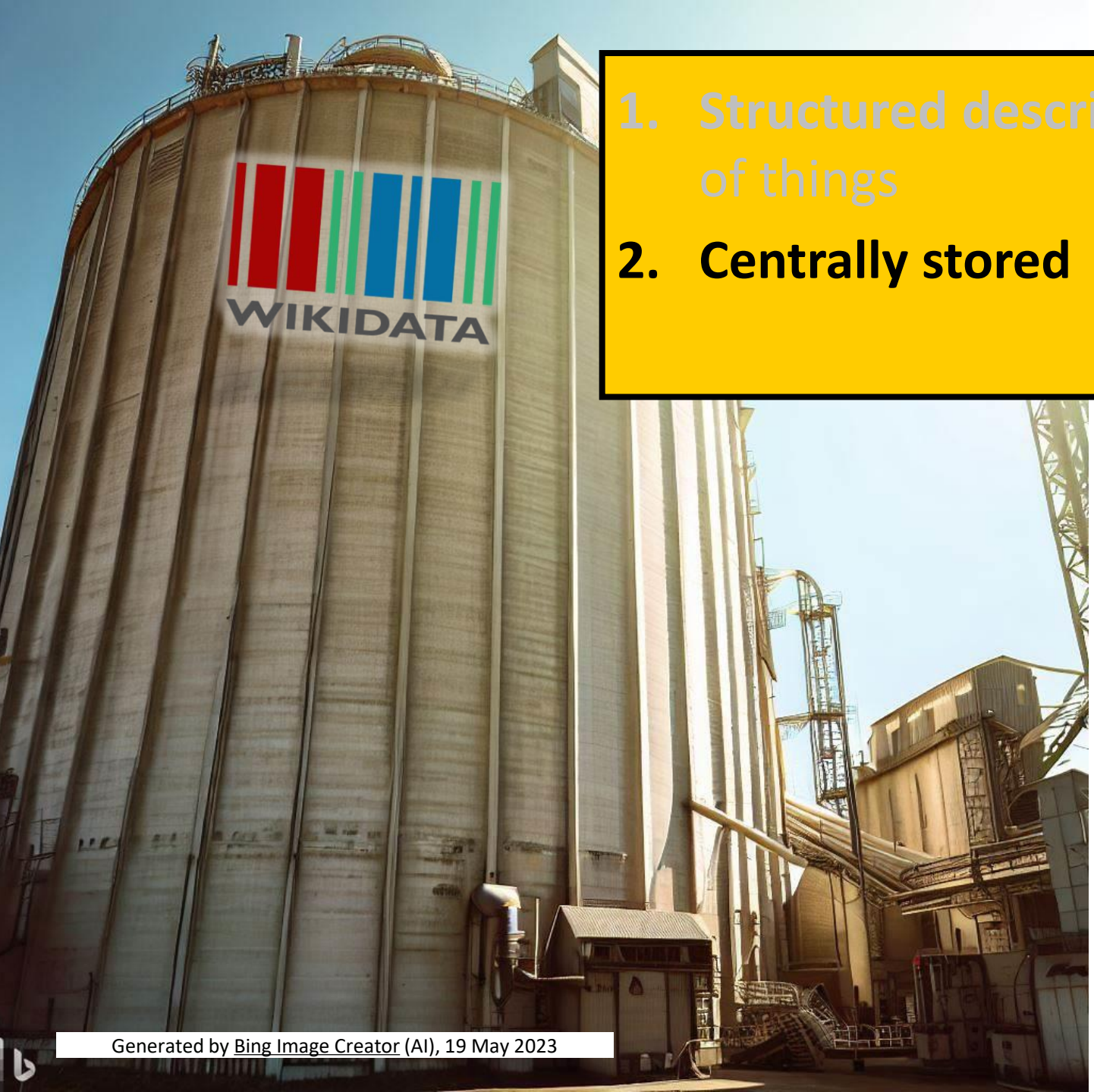
https://www.wikidata.org/wiki/Wikidata:Introduction
https://www.wikidata.org/wiki/Wikidata:Philosophy

1. Structured descriptions of things



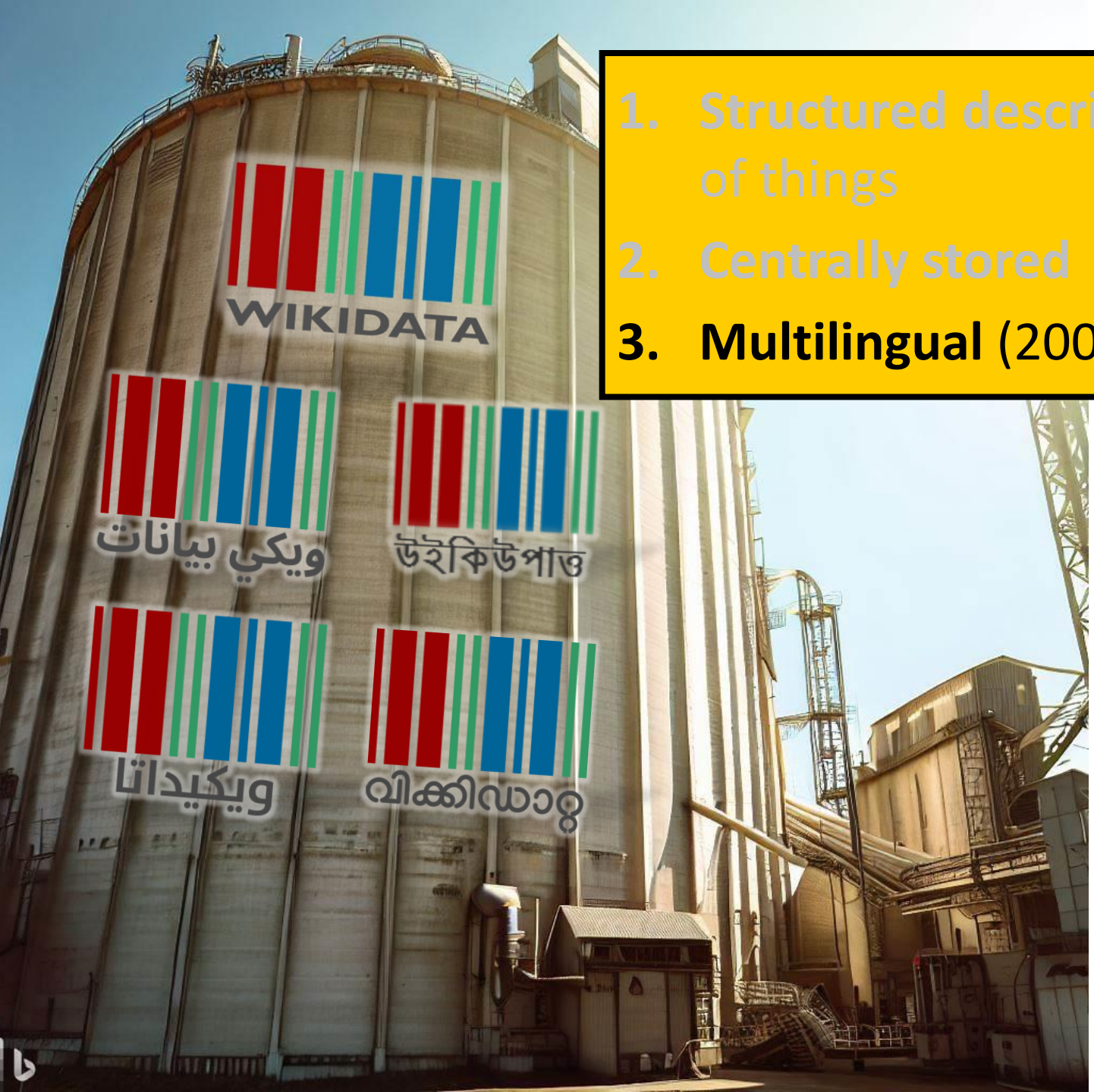
Description of *Eiffel Tower*
(English interface)

https://www.wikidata.org/wiki/Q243



1. Structured descriptions of things
2. **Centrally stored**

Generated by Bing Image Creator (AI), 19 May 2023



1. Structured descriptions of things
2. Centrally stored
3. **Multilingual** (200+ languages)

Eiffeltoren (Q243)

ProVe has not processed this item yet

bouwwerk in Parijs

Enter a schema to check against e.g. E10

▸ Recoin: Meest relevante eigenschappen die missen

▾ In meer talen

Taal	Label	Beschrijving	Ook bekend als
Nederlands	Eiffeltoren	bouwwerk in Parijs	
Duits	Eiffelturm	Eisenfachwerkturm auf dem Champs de Mars in Paris	Tour Eiffel
Engels	Eiffel Tower	tower located on the Champ de Mars in Paris, France	Tour Eiffel tour Eiffel
Frans	tour Eiffel	monument de Paris, France	Dame de fer La Tour Eiffel La Dame de fer

Alle ingevoerde talen

Verklaringen

is een	stalen vakwerktoren	▸ 1 bron
	uitkijktoren	▾ 0 bronnen
	toeristische attractie	▾ 0 bronnen
	oriëntatiepunt	▾ 0 bronnen
onderdeel van	banks of the Seine *Engels*	▾ 0 bronnen
datum van oprichting of creatie	28 jan 1887 *Gregoriaans*	▸ 1 bron
	31 mrt 1889 *Gregoriaans*	▸ 1 bron
gebruik	toeristische attractie	▾ 0 bronnen
	bliksemafleider	▸ 1 bron

Dutch interface

https://www.wikidata.org/wiki/Q243

Torre Eiffel (Q243)

torre no Champ de Mars em Paris, França

Tour Eiffel | tour Eiffel | La Tour Eiffel

▸ Recoin: Propriedades mais relevantes que estão faltando

Enter a schema to check against e.g. E10

▾ Noutras línguas

Língua	Rótulo	Descrição	Nomes alternativos
português	Torre Eiffel	torre no Champ de Mars em Paris, França	Tour Eiffel tour Eiffel La Tour Eiffel
alemão	Eiffelturm	Eisenfachwerkturm auf dem Champs de Mars in Paris	Tour Eiffel
inglês	Eiffel Tower	tower located on the Champ de Mars in Paris, France	Tour Eiffel tour Eiffel
espanhol	Torre Eiffel	monumento en París, Francia	Tour Eiffel
francês	tour Eiffel	monument de la ville de Paris, France	Dame de fer La Tour Eiffel
italiano	torre Eiffel	monumento di Parigi	Tour Eiffel
neerlandês	Eiffeltoren	bouwwerk in Parijs	

Todas as línguas introduzidas

Declarações

instância de	lattice tower *inglês*	0 referência
	belveder	0 referência
	atração turística	0 referência
	landmark *inglês*	0 referência
parte de	Banks of the Seine *inglês*	0 referência
imagem		0 referência

Portuguese interface

https://www.wikidata.org/wiki/Q243

エッフェル塔 (Q243)

フランスのパリにある塔

エッフェルタワー | エッフェル鉄塔

Enter a schema to check against e.g. E10

▸ Recoin: 未登録のプロパティの候補

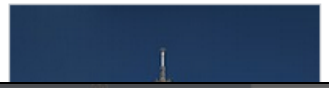
▾ 他言語の表示

言語	ラベル	説明	別名
日本語	エッフェル塔	フランスのパリにある塔	エッフェルタワー エッフェル鉄塔
ドイツ語	Eiffelturm	Eisenfachwerkturm auf dem Champs de Mars in Paris	Tour Eiffel
英語	Eiffel Tower	tower located on the Champ de Mars in Paris, France	Tour Eiffel tour Eiffel
スペイン語	Torre Eiffel	monumento en París, Francia	Tour Eiffel
フランス語	tour Eiffel	monument de la ville de Paris, France	Dame de fer La Tour Eiffe
イタリア語	torre Eiffel	monumento di Parigi	Tour Eiffel
オランダ語	Eiffeltoren	bouwwerk in Parijs	

入力済みの全言語

Japanese interface

文

分類	鉄塔	▾ 0件の情報源
	展望塔	▾ 0件の情報源
	観光地	▾ 0件の情報源
	ランドマーク	▾ 0件の情報源
以下の一部分	パリのセーヌ河岸	▾ 0件の情報源
画像		▾ 0件の情報源

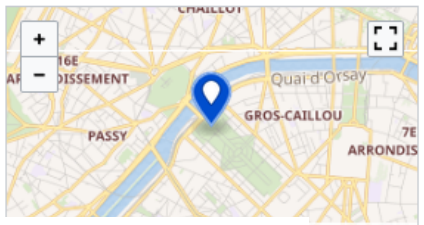
https://www.wikidata.org/wiki/Q243

4. Linked data

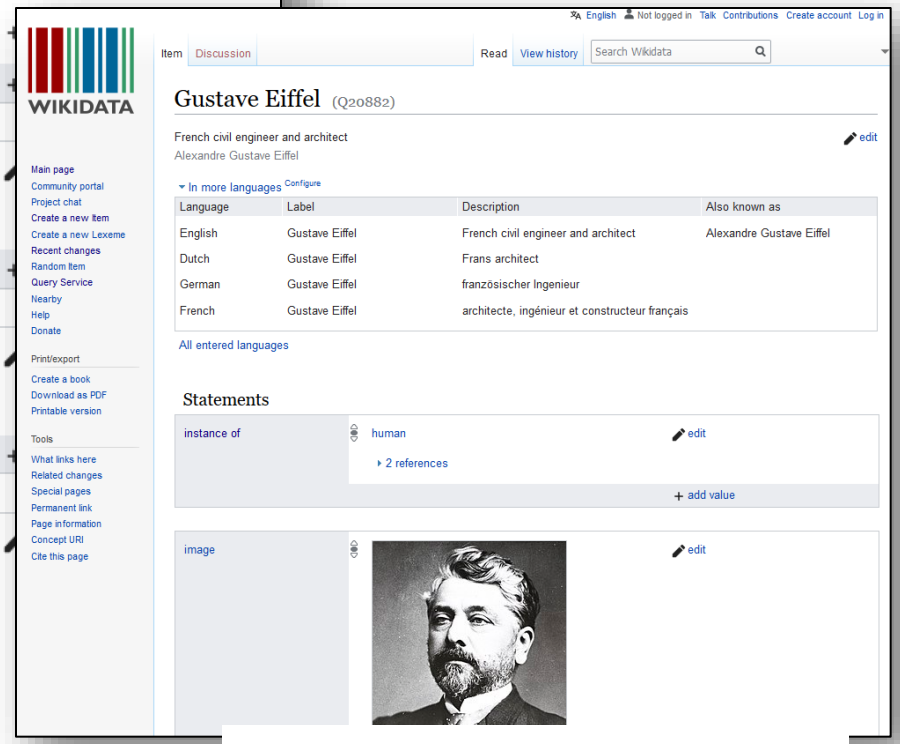
- Things, not strings
- Mutually (inter)connected

datum van oprichting of creatie	1887 0 bronnen	bewer + bron t + waard
label in officiële taal	tour Eiffel (Frans) 1 bron	bewer + waard
vernoemd naar	Gustave Eiffel 1 bronnen	bewerken
land		
gelegen in bestuurlijke eenheid	7e arrondissement van Parijs 2 bronnen	
geografische locatie		

No plain text, but clickable link



https://www.wikidata.org/wiki/Q243



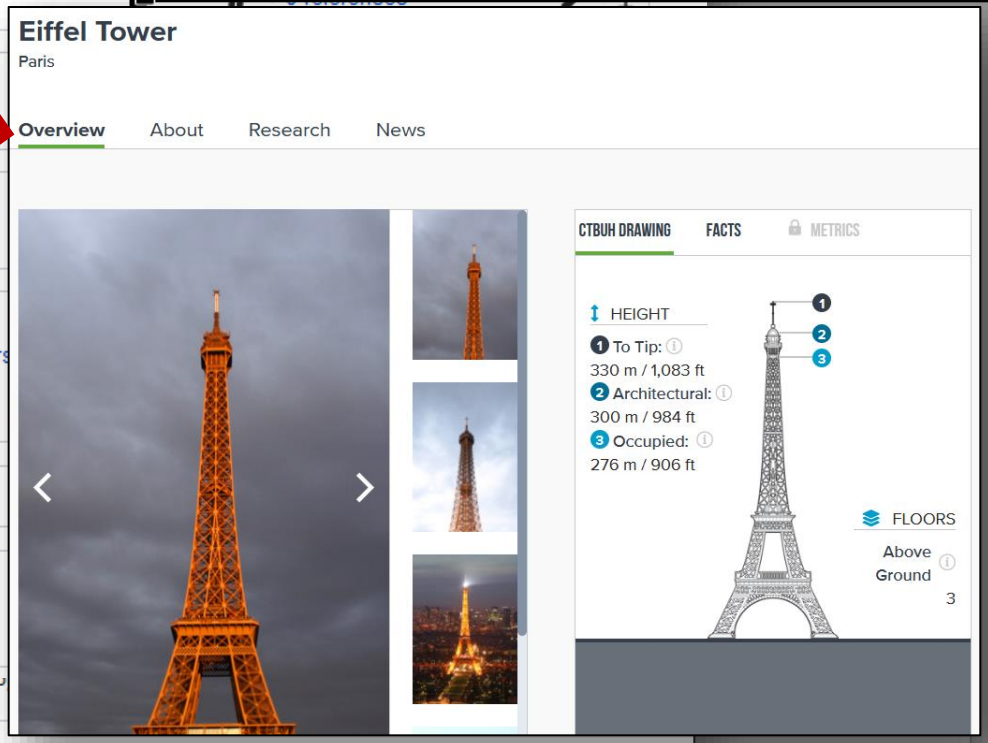
https://www.wikidata.org/wiki/Q20882

Identifiers

VIAF ID	236835198
Biblioteca Nacional de España ID	XX4850635
Catalan Vikidia ID	Torre_Eiffel
Chemins de mémoire ID	la-tour-eiffel
Comic Vine ID	4020-58543
CTBUH Skyscraper Center building ID	9410
Cultural Objects Names Authority ID	700000116
Curlie ID	World/Français/Arts/Architecture/Histoire /Types_de_constructions/Edifices_civils/Tours language of work or name: French
DATAtourisme ID	19/4b69d406-412a-3136-8cb8-cf8bac872956
De Agostini ID	Eiffel,+Tórre- subject named as: Eiffel, Tórre- subject named as: Eiffelova věž (P

4. Linked data

- Things, not strings
- Mutually (inter)connected
- Connected with external databases



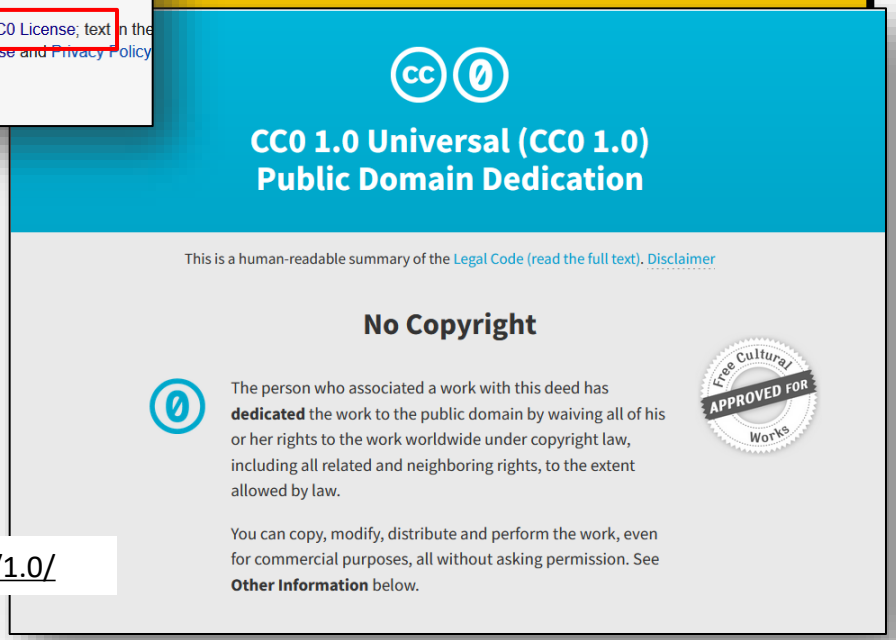
https://www.wikidata.org/wiki/Q243

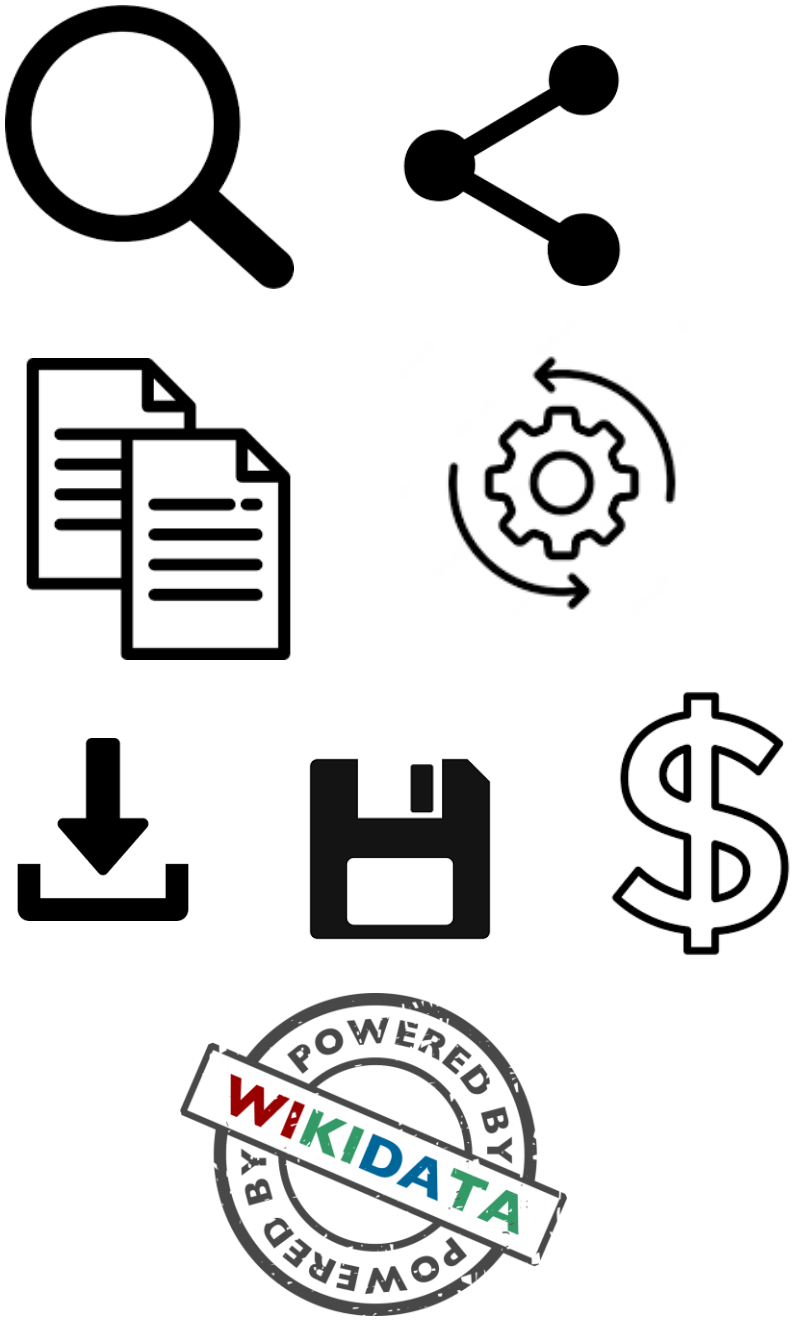
https://www.skyscrapercenter.com/building/wd/9410

5. Free & open

- Free/gratis, no trackers, no ads
- No copyrights, no database rights (CC0-license)

https://creativecommons.org/publicdomain/zero/1.0/





5. Free & open

- Free/gratis, no trackers, no ads
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- Anyone can **reuse the data:** query, share, copy, download, mashup, sell etc.

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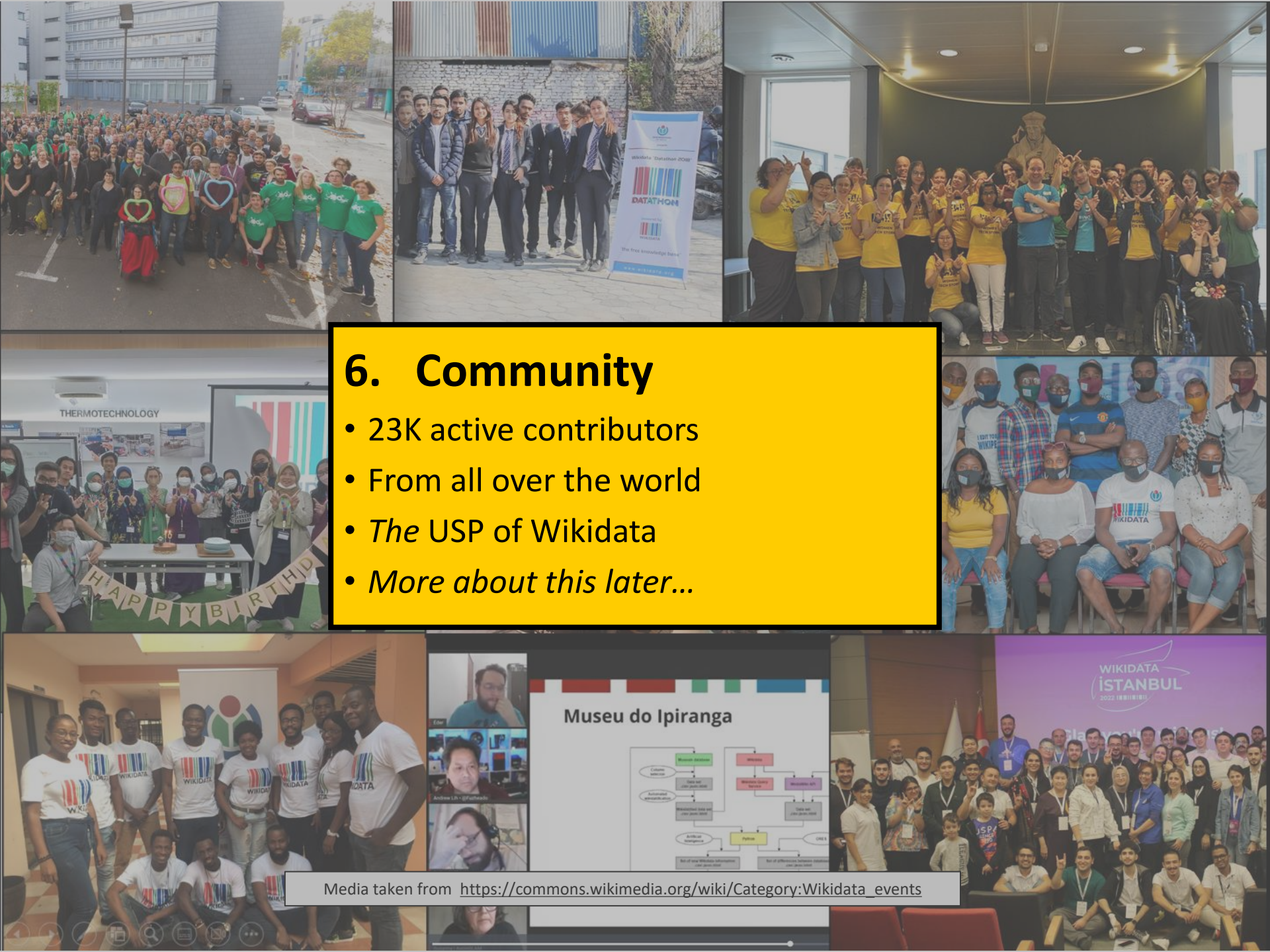
- Free/gratis, no trackers, no ads
- No copyrights, no database rights (CC0-license)
- Anyone can **reuse the data:** query, share, copy, download, mashup, sell etc.
- Anyone can **contribute & edit data:** add, improve, join, delete etc.
  → Community



6. Community

- 23K active contributors
- From all over the world
- *The* USP of Wikidata
- *More about this later…*

Media taken from https://commons.wikimedia.org/wiki/Category:Wikidata_events

Wikipedia

Wikimedia Commons

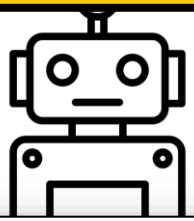
Sibling project / community of Wikipedia, Wikimedia Commons etc.

All projects:

- Open & free knowledge
- Collaboration and community are key
- Knowlegde sharing
- For benefit of mankind

7. For humans and machines

- Human readable & writable → Data interaction via GUIs in HTML
- Machine readable & writable → Data interaction via APIs in JSON, XML/RDF, CSV etc.



Koninklijke Bibliotheek (Q1526131)

National Library of the Netherlands

Dutch Royal Library | Royal Library of the Netherlands | KB | National Library of the N

Enter a schema to check against e.g. E10

▸ Recoin: Most relevant properties which are absent

▾ In more languages

Language	Label	Description
English	Koninklijke Bibliotheek	National Library of the Netherlands
German	Königliche Bibliothek der Niederlande	N
Spanish	Biblioteca Real Neerlandesa	
French	Bibliothèque Royale	biblioth que Nationale des Pays-Bas
Italian	Biblioteca reale	biblioteca nazionale dei Paesi Bassi
Dutch	Koninklijke Bibliotheek	Nationale Bibliotheek van Nederland

All entered languages

Statements

instance of

logo image

Fully equivalent

−<api success="1">
−<entities>
−<entity type="item" id="Q1526131">
−<labels>
<label language="de" value="Königliche Bibliothek der Niederlande"/>
<label language="en" value="Koninklijke Bibliotheek"/>
<label language="es" value="Biblioteca Real Neerlandesa"/>
<label language="fr" value="Bibliothèque Royale"/>
<label language="id" value="Koninklijke Bibliotheek"/>
<label language="it" value="Biblioteca reale"/>
<label language="nl" value="Koninklijke Bibliotheek"/>
<label language="ru" value="Королевская национальная библиотека Нидер
<label language="uk" value="Королівська бібліотека Нідерландів"/>
<label language="zh" value="荷蘭皇家圖書館"/>

MediaWiki API result

This is the HTML representation of the JSON format. HTML is good for debugging, but is unsuitable for application use.
Specify the *format* parameter to change the output format. To see the non-HTML representation of the JSON format, set format=json.
See the complete documentation, or the API help for more information.


```
{
    "entities": {
        "Q1526131": {
            "pageid": 1463147,
            "ns": 0,
            "title": "Q1526131",
            "lastrevid": 1882107453,
            "modified": "2023-04-24T20:30:40Z",
            "type": "item",
            "id": "Q1526131",
            "labels": {
                "de": {
                    "language": "de",
                    "value": "K\u00f6nigliche Bibliothek der Niederlande"
                },
```


- https://www.wikidata.org/wiki/Q1526131, screenshot 24-5-2023
- https://www.wikidata.org/w/api.php?action=wbgetentities&ids=Q1526131
- https://www.wikidata.org/w/api.php?action=wbgetentities&ids=Q1526131&props=labels&format=xml

Or in other words…

Wikidata is a

secondary, general, public

knowledge base for the world.

What kind of data does Wikidata contain?

Secondary

- Non-original data about
- Noteworthy things (more info)
- Verifiable by reliable public sources (more info)

General

- Wide range of subjects/classes
- Relatively basic data, not super-specialized

Public

- Public data
- No copyrights
- No privacy sensitivities (e.g. living persons) (more info)

https://kennisplatform.wikimedia.nl/artikelen/data-delen/wat-zijn-de-criteria-voor-data-op-wikidata/

These principles have some implications for scientific and GLAM institutions…

Institutional requirements *not* met by Wikidata

- X Publishing domain-specific / specialist / ‘esoteric’ data
- X Publishing very large datasets (e.g. catalogues, thesauri)
- X Controlling who may add & edit data
- X Collaborating with selected partners in a closed, controlled environment
- X Strict control of data models and ontologies
- X Recording non-public data
- X Hosting data on own servers

Added value: What can Wikidata add for your GLAM?

1) Increasing visibility, findability and reusability of your collections
   - Greater public outreach of your collections, worldwide
   - Your institutional data in cross-domain, global, multilingual context → Increasing interoperability of your GLAM with the outside world
   - Community: External expertise, skills, tools and enthusiasm to enrich & connect institutional data

2) New functionalities for your data (and images)
   - Functionalities that your GLAM cannot offer in its own services
   - Reg. Search, Data enrichment, -quality control, -visualization and -formats, Image metadata, Machine interactions
   - For both your thesauri and your heritage/special collections
   - For people and machines

3) Toolkit & platform to create and publish your institutional LOD

4) Developing and sharing knowledge & skills based on LOD
   - Both internally and externally
   - Strengthening cooperation with your network partners via Wikidata/media

3) How are things described in Wikidata?

"Mount Everest is the highest point in the world"

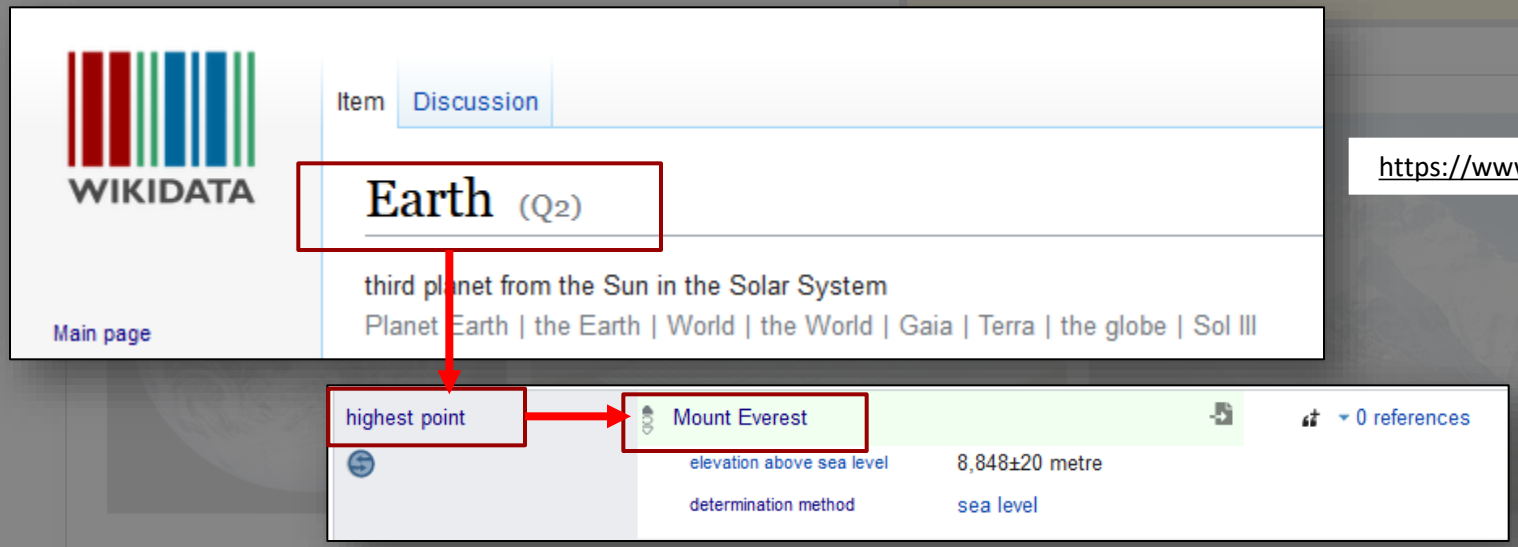
item: *Earth*

property: *highest point*

value: *Everest*

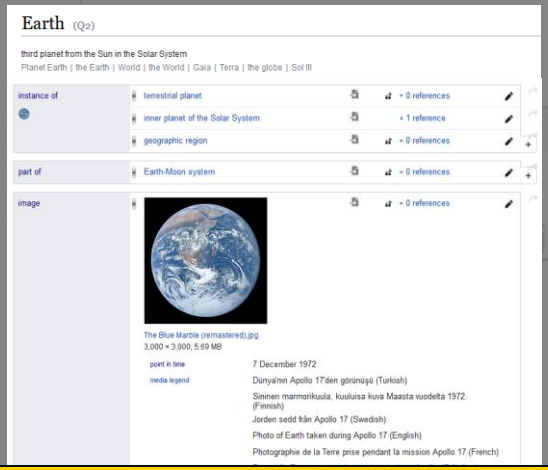
https://www.wikidata.org/wiki/Help:About_data

Triple : Q-P-Q

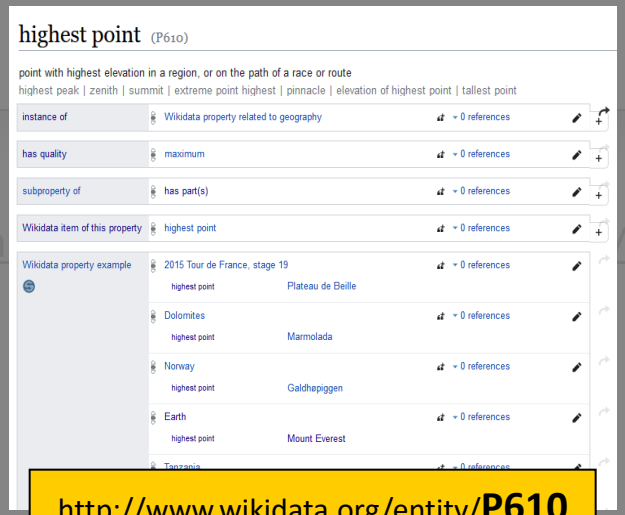


https://www.wikidata.org/wiki/Q2

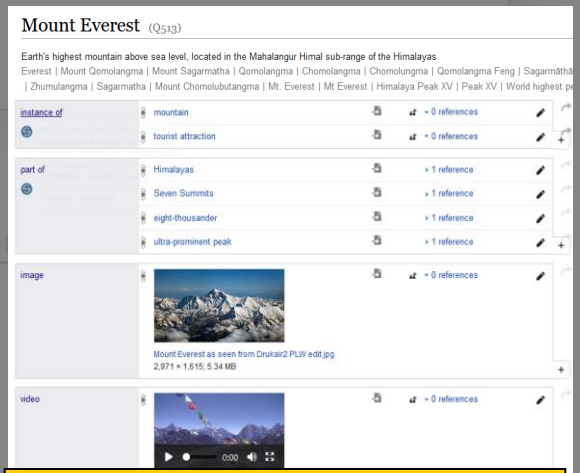
item: *Earth* property: *highest* value: *Everest*



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



http://www.wikidata.org/entity/**P610**



http://www.wikidata.org/entity/**Q513**

https://www.wikidata.org/wiki/Help:About_data

KB on Wikidata

URI: http://www.wikidata.org/entity/**Q1526131**

Unique *identifier*

Koninklijke Bibliotheek (Q1526131)

National Library of the Netherlands

Dutch Royal Library | Royal Library of the Netherlands | KB | National Library of th

Enter a schema to check against e.g. E10

▸ Recoin: Most relevant properties which are absent

▾ In more languages

Language	Label	Description	Also known as
English	Koninklijke Bibliotheek	National Library of the Netherlands	Dutch Roya Royal Libra KB National Lib
German	Königliche Bibliothek der Niederlande	Nationalbibliothek	
Spanish	Biblioteca Real Neerlandesa	biblioteca nacional en los Países Bajos	Biblioteca Real Holandesa Biblioteca Nacional de los Paí
French	Bibliothèque Royale	bibliothèque Nationale des Pays-Bas	
Italian	Biblioteca reale	biblioteca nazionale dei Paesi Bassi	Koninklijke Bibliotheek
Dutch	Koninklijke Bibliotheek	Nationale Bibliotheek van Nederland	KB Koninklijke Bibliotheek (Neder Bibliotheek KB, nationale bibliotheek van KB, nationale bibliotheek

All entered languages

Statements

instance of — national library — ▸ 1 reference

logo image — KB | nationale bibliotheek — ▾ 0 references

Logo koninklijke bibliotheek.svg

540 × 156; 79 KB

https://www.wikidata.org/wiki/Q1526131, screenshot 24-5-2023

Koninklijke Bibliotheek (Q1526131)

National Library of the Netherlands

Dutch Royal Library | Royal Library of the Netherlands | KB | National Library of the Netherlands

Enter a schema to check against e.g. E10

▸ Recoin: Most relevant properties which are absent

▾ In more languages

Language	Label	Description	Also known as
English	Koninklijke Bibliotheek	National Library of the Netherlands	Dutch Royal Library Royal Library of the Netherlan KB National Library of the Netherl
German	Königliche Bibliothek der Niederlande	Nationalbibliothek	
Spanish	Biblioteca Real Neerlandesa	biblioteca nacional en los Países Bajos	
French	Bibliothèque Royale	bibliothèque Nationale des Pays-Bas	
Italian	Biblioteca reale	biblioteca nazionale dei Paesi Bassi	
Dutch	Koninklijke Bibliotheek	Nationale Bibliotheek van Nederland	

All entered languages

Statements

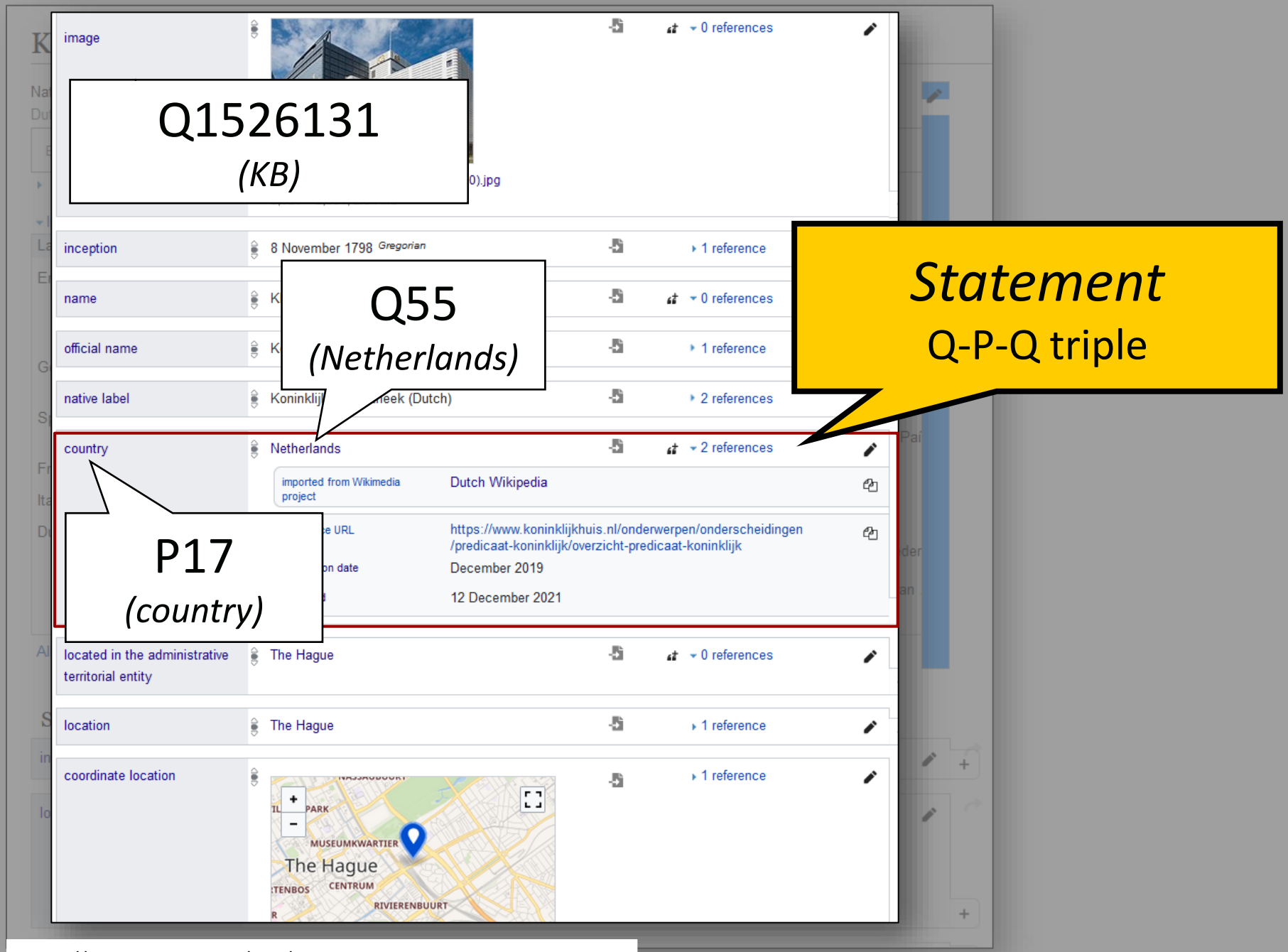
instance of	national library	▸ 1 reference
logo image	KB nationale bibliotheek Logo koninklijke bibliotheek.svg 540 × 156; 79 KB	▾ 0 references

Multilingual *fingerprint*

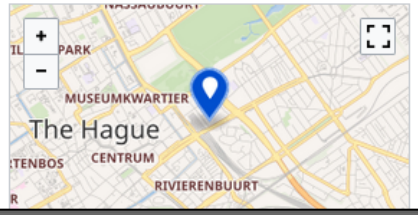
- Label
- Description
- Aliases (Also known as)

https://www.wikidata.org/wiki/Q1526131, screenshot 24-5-2023

https://www.mediawiki.org/wiki/Wikibase/DataModel/Primer



https://www.wikidata.org/wiki/Q1526131, screenshot 24-5-2023

image	 Koninklijke Bibliotheek (7985207450).jpg 3,620 × 2,581; 2.31 MB	0 references
inception	8 November 1798 *Gregorian*	1 reference
name	KB, nationale bibliotheek (Dutch)	
official name	Koninklijke Bibliotheek (Dutch)	
native label	Koninklijke Bibliotheek (Dutch)	
country	Netherlands	
located in the administrative territorial entity	The Hague	0 references
location	The Hague	1 reference
coordinate location		1 reference

imported from Wikimedia project: Dutch Wikipedi

reference URL: https://www.koninklijkhuis.nl/onderwerpen/onderscheidingen/predicaat-koninklijk/overzicht-predicaat-koninklijk

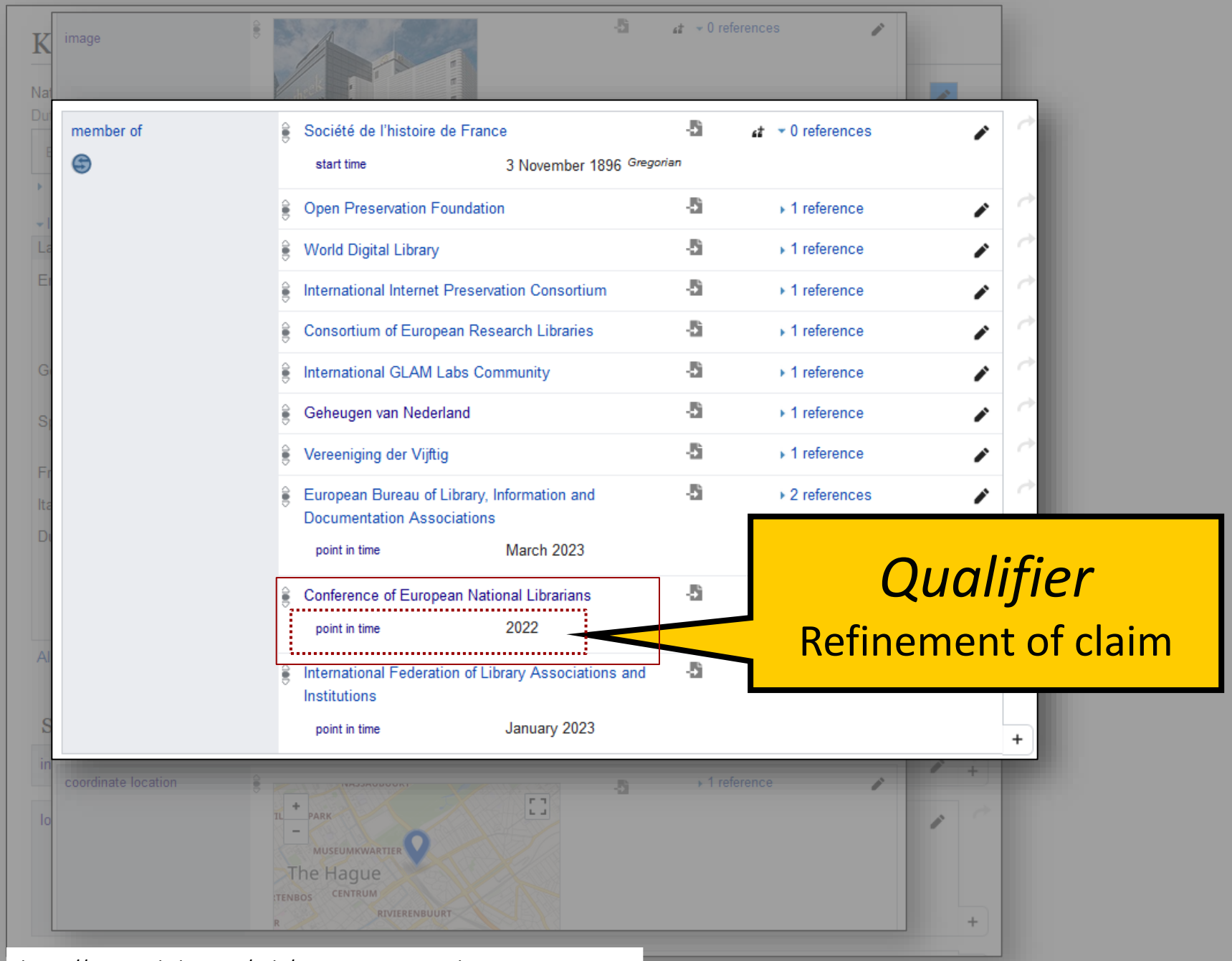
publication date: December 2019

retrieved: 12 December 2021

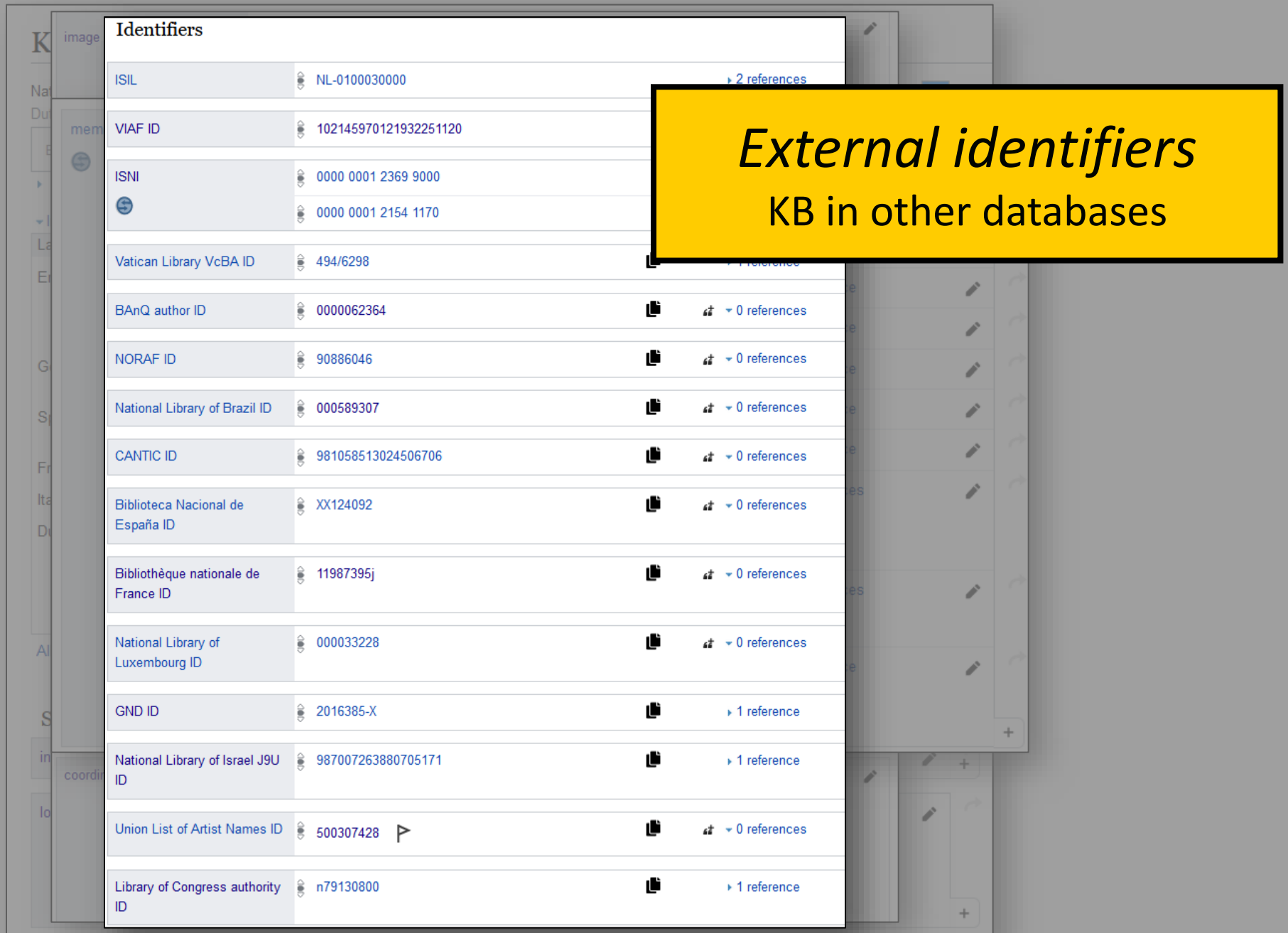
Source reference

Where does this claim originate from?

https://www.wikidata.org/wiki/Q1526131, screenshot 24-5-2023



https://www.wikidata.org/wiki/Q1526131, screenshot 24-5-2023



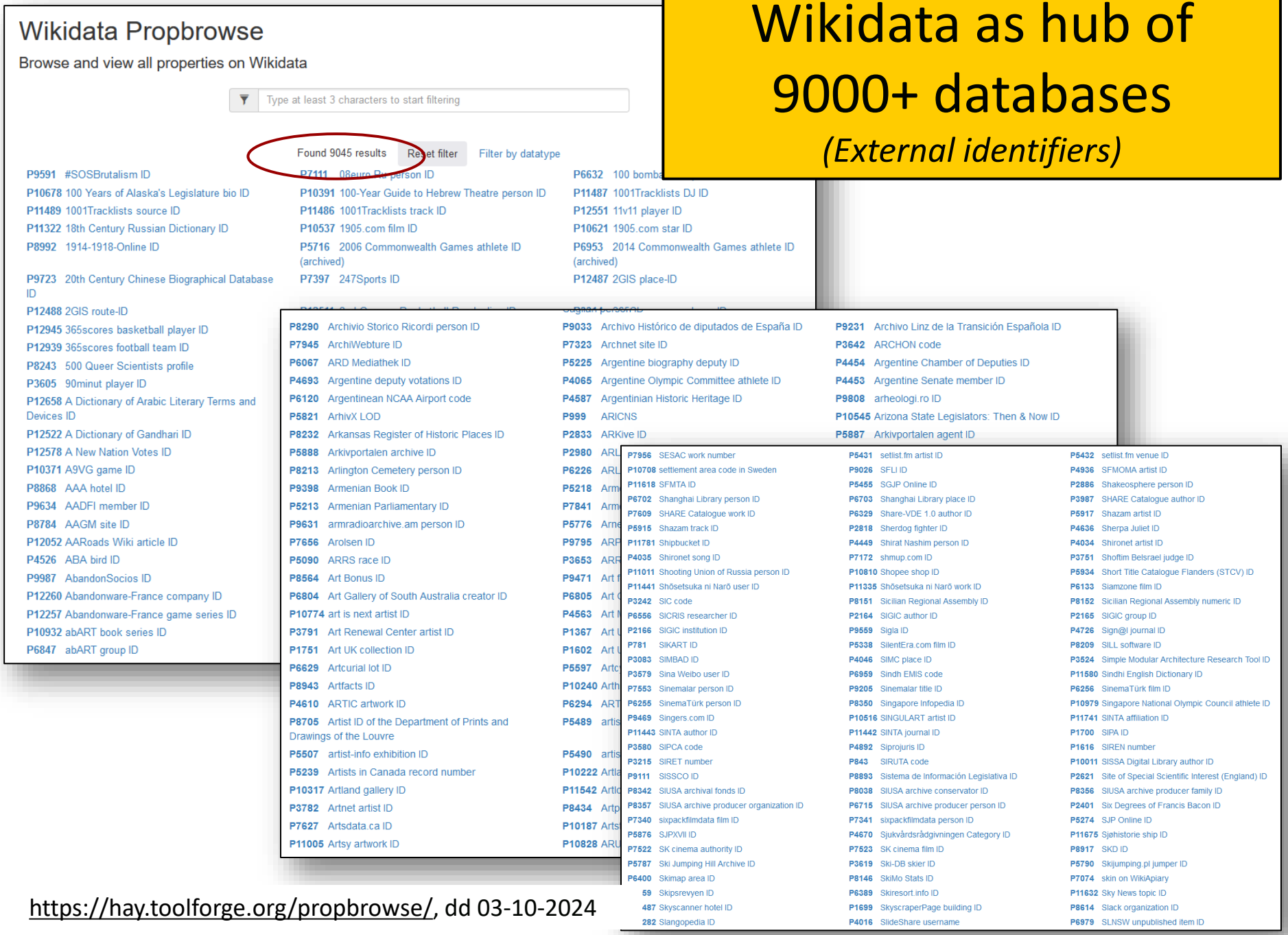
External identifiers

KB in other databases

https://www.wikidata.org/wiki/Q1526131, screenshot 24-5-2023

Wikidata as hub of 9000+ databases

(External identifiers)



Wikidata Propbrowse

Browse and view all properties on Wikidata

Type at least 3 characters to start filtering

Found 9045 results | Reset filter | Filter by datatype

P9591 #SOSBrutalism ID
P10678 100 Years of Alaska's Legislature bio ID
P11489 1001Tracklists source ID
P11322 18th Century Russian Dictionary ID
P8992 1914-1918-Online ID
P9723 20th Century Chinese Biographical Database ID
P12488 2GIS route-ID
P12945 365scores basketball player ID
P12939 365scores football team ID
P8243 500 Queer Scientists profile
P3605 90minut player ID
P12658 A Dictionary of Arabic Literary Terms and Devices ID
P12522 A Dictionary of Gandhari ID
P12578 A New Nation Votes ID
P10371 A9VG game ID
P8868 AAA hotel ID
P9634 AADFI member ID
P8784 AAGM site ID
P12052 AARoads Wiki article ID
P4526 ABA bird ID
P9987 AbandonSocios ID
P12260 Abandonware-France company ID
P12257 Abandonware-France game series ID
P10932 abART book series ID
P6847 abART group ID

P7111 08euro Re person ID
P10391 100-Year Guide to Hebrew Theatre person ID
P11486 1001Tracklists track ID
P10537 1905.com film ID
P5716 2006 Commonwealth Games athlete ID (archived)
P7397 247Sports ID

P6632 100 bomba
P11487 1001Tracklists DJ ID
P12551 11v11 player ID
P10621 1905.com star ID
P6953 2014 Commonwealth Games athlete ID (archived)
P12487 2GIS place-ID

P8290 Archivio Storico Ricordi person ID
P7945 ArchiWebture ID
P6067 ARD Mediathek ID
P4693 Argentine deputy votations ID
P6120 Argentinean NCAA Airport code
P5821 ArhivX LOD
P8232 Arkansas Register of Historic Places ID
P5888 Arkivportalen archive ID
P8213 Arlington Cemetery person ID
P9398 Armenian Book ID
P5213 Armenian Parliamentary ID
P9631 armradioarchive.am person ID
P7656 Arolsen ID
P5090 ARRS race ID
P8564 Art Bonus ID
P6804 Art Gallery of South Australia creator ID
P10774 art is next artist ID
P3791 Art Renewal Center artist ID
P1751 Art UK collection ID
P6629 Artcurial lot ID
P8943 Artfacts ID
P4610 ARTIC artwork ID
P8705 Artist ID of the Department of Prints and Drawings of the Louvre
P5507 artist-info exhibition ID
P5239 Artists in Canada record number
P10317 Artland gallery ID
P3782 Artnet artist ID
P7627 Artsdata.ca ID
P11005 Artsy artwork ID

P9033 Archivo Histórico de diputados de España ID
P7323 Archnet site ID
P5225 Argentine biography deputy ID
P4065 Argentine Olympic Committee athlete ID
P4587 Argentinian Historic Heritage ID
P999 ARICNS
P2833 ARKive ID
P2980 ARL
P6226 ARL
P5218 Arm
P7841 Arm
P5776 Arne
P9795 ARF
P3653 ARF
P9471 Art
P6805 Art
P4563 Art
P1367 Art
P1602 Art
P5597 Artc
P10240 Arth
P6294 ART
P5489 artis
P5490 artis
P10222 Artla
P11542 Artlc
P8434 Artp
P10187 Arts
P10828 ARU

P9231 Archivo Linz de la Transición Española ID
P3642 ARCHON code
P4454 Argentine Chamber of Deputies ID
P4453 Argentine Senate member ID
P9808 arheologi.ro ID
P10545 Arizona State Legislators: Then & Now ID
P5887 Arkivportalen agent ID

P7956 SESAC work number
P10708 settlement area code in Sweden
P11618 SFMTA ID
P6702 Shanghai Library person ID
P7609 SHARE Catalogue work ID
P5915 Shazam track ID
P11781 Shipbucket ID
P4035 Shironet song ID
P11011 Shooting Union of Russia person ID
P11441 Shōsetsuka ni Narō user ID
P3242 SIC code
P6556 SICRIS researcher ID
P2166 SIGIC institution ID
P781 SIKART ID
P3083 SIMBAD ID
P3579 Sina Weibo user ID
P7553 Sinemalar person ID
P6255 SinemaTürk person ID
P9469 Singers.com ID
P11443 SINTA author ID
P3580 SIPCA code
P3215 SIRET number
P9111 SISSCO ID
P8342 SIUSA archival fonds ID
P8357 SIUSA archive producer organization ID
P7340 sixpackfilmdata film ID
P5876 SJPXVII ID
P7522 SK cinema authority ID
P5787 Ski Jumping Hill Archive ID
P6400 Skimap area ID
59 Skipsrevyen ID
487 Skyscanner hotel ID
282 Slangopedia ID

P5431 setlist.fm artist ID
P9026 SFLI ID
P5455 SGJP Online ID
P6703 Shanghai Library place ID
P6329 Share-VDE 1.0 author ID
P2818 Sherdog fighter ID
P4449 Shirat Nashim person ID
P7172 shmup.com ID
P10810 Shopee shop ID
P11335 Shōsetsuka ni Narō work ID
P8151 Sicilian Regional Assembly ID
P2164 SIGIC author ID
P9559 Sigla ID
P5338 SilentEra.com film ID
P4046 SIMC place ID
P6959 Sindh EMIS code
P9205 Sinemalar title ID
P8350 Singapore Infopedia ID
P10516 SINGULART artist ID
P11442 SINTA journal ID
P4892 Siprojuris ID
P843 SIRUTA code
P8893 Sistema de Información Legislativa ID
P8038 SIUSA archive conservator ID
P6715 SIUSA archive producer person ID
P7341 sixpackfilmdata person ID
P4670 Sjukvårdsrådgivningen Category ID
P7523 SK cinema film ID
P3619 Ski-DB skier ID
P8146 SkiMo Stats ID
P6389 Skiresort.info ID
P1699 SkyscraperPage building ID
P4016 SlideShare username

P5432 setlist.fm venue ID
P4936 SFMOMA artist ID
P2886 Shakeosphere person ID
P3987 SHARE Catalogue author ID
P5917 Shazam artist ID
P4636 Sherpa Juliet ID
P4034 Shironet artist ID
P3751 Shoftim Belsrael judge ID
P5934 Short Title Catalogue Flanders (STCV) ID
P6133 Siamzone film ID
P8152 Sicilian Regional Assembly numeric ID
P2165 SIGIC group ID
P4726 Sign@l journal ID
P8209 SILL software ID
P3524 Simple Modular Architecture Research Tool ID
P11580 Sindhi English Dictionary ID
P6256 SinemaTürk film ID
P10979 Singapore National Olympic Council athlete ID
P11741 SINTA affiliation ID
P1700 SIPA ID
P1616 SIREN number
P10011 SISSA Digital Library author ID
P2621 Site of Special Scientific Interest (England) ID
P8356 SIUSA archive producer family ID
P2401 Six Degrees of Francis Bacon ID
P5274 SJP Online ID
P11675 Sjøhistorie ship ID
P8917 SKD ID
P5790 Skijumping.pl jumper ID
P7074 skin on WikiApiary
P11632 Sky News topic ID
P8614 Slack organization ID
P6979 SLNSW unpublished item ID

https://hay.toolforge.org/propbrowse/, dd 03-10-2024

Wikidata datamodel (simple)

Wikibase/DataModel/Primer

Page Discussion Read Edit View history Tools

< Wikibase | DataModel

Translate this page

Languages: British English **English** français українська

This is a primer to the Wikibase data model. For a more technical specification please check the data model specification.

Summary of the data model [edit]

Wikibase knowledge base content can be summarized as follows:

A Wikibase knowledge base is a collection of Entities. **Entities** are the basic elements of the knowledge base, which can be described and referenced using the Wikibase data model. There are two predefined kinds of Entities: Items and Properties. Wikibase may be extended to support additional types of Entities.

The description of Items and Properties are structured as follows.

1. **Item**
    1. **Item identifier** (number prefixed with *Q*)
    2. **Fingerprint**, consisting of:
        1. Multilingual **label***
        2. Multilingual **description***
        3. Multilingual **aliases**
    3. **Statements**, each consisting of:
        1. **Claim**, consisting of:
            1. Property
            2. Value
            3. Qualifiers (additional property-value pairs)
        2. **References** (each consisting of one or more property-value pairs)
        3. **Rank**
    4. **Site links**
2. **Property**
    1. **Property identifier** (number prefixed with *P*

https://www.mediawiki.org/wiki/Wikibase/DataModel/Primer

Version history

Revision history of "Koninklijke Bibliotheek" (Q1526131)

View logs for this item (view abuse log)

Filter revisions

Diff selection: Mark the radio buttons of the revisions to compare and hit enter or the button at the bottom.
Legend: **(cur)** = difference with latest revision, **(prev)** = difference with preceding revision, **m** = minor edit.

(latest | earliest) View (newer 50 | older 50) (20 | 50 | 100 | 250 | 500)

Compare selected revisions

- (cur | prev) ◉ 18:55, 20 May 2023 Goodymeraj (talk | contribs) . . (107,923 bytes) (+82) . . *(Added Igbo alias: Óbá akwukwo)* (undo | thank) (Tag: Wikidata User Interface)
- (cur | prev) ◉ 18:55, 20 May 2023 Goodymeraj (talk | contribs) . . (107,841 bytes) (+88) . . *(Added [ig] description: Óbá akwukwo mba Netherlands)* (undo | thank) (Tag: Wikidata User Interface) (resto
- (cur | prev) ○ 18:55, 20 May 2023 Goodymeraj (talk | contribs) . . (107,753 bytes) (+82) . . *(Added [ig] label: Koninklijke Bibliotheek)* (undo | thank) (Tag: Wikidata User Interface) (restore)
- (cur | prev) ○ 20:30, 24 April 2023 Amadalvarez (talk | contribs) . . (107,671 bytes) (+361) . . *(Created claim: University of Barcelona authority ID (P11686): 981058513024506706, batch #166108)* (undo
- (cur | prev) ○ 01:02, 18 April 2023 BorkedBot (talk | contribs) . . (107,310 bytes) **(+1,070)** . . *(Created claim: social media followers (P8687): 14,058, add follower count)* (undo) (restore)
- (cur | prev) ○ 00:32, 16 April 2023 BorkedBot (talk | contribs) . . (106,240 bytes) (+397) . . *(Added qualifier: point in time (P585): 16 April 2023, update youtube data)* (undo) (restore)
- (cur | prev) ○ 00:32, 16 April 2023 BorkedBot (talk | contribs) . . (105,843 bytes) (+397) . . *(Added qualifier: start time (P580): 2 April 2007, update youtube data)* (undo) (restore)
- (cur | prev) ○ 00:32, 16 April 2023 BorkedBot (talk | contribs) . . (105,446 bytes) (+269) . . *(Added qualifier: number of viewers/listeners (P5436): 401,117, update youtube data)* (undo) (restore)
- (cur | prev) ○ 00:32, 16 April 2023 BorkedBot (talk | contribs) . . (105,177 bytes) (+266) . . *(Added qualifier: number of works (P3740): 391, update youtube data)* (undo) (restore)
- (cur | prev) ○ 00:32, 16 April 2023 BorkedBot (talk | contribs) . . (104,911 bytes) (+267) . . *(Added qualifier: number of subscribers (P3744): 1,260, update youtube data)* (undo) (restore)
- (cur | prev) ○ 00:32, 16 April 2023 BorkedBot (talk | contribs) . . (104,644 bytes) (+305) . . *(Added qualifier: subject named as (P1810): Koninklijke Bibliotheek (KB), update youtube data)* (undo) (rest
- (cur | prev) ○ 20:01, 15 April 2023 BorkedBot (talk | contribs) . . (104,339 bytes) (+397) . . *(Add*
- (cur | prev) ○ 20:01, 15 April 2023 BorkedBot (talk | contribs) . . (103,942 bytes) (+397) . . *(Add*
- (cur | prev) ○ 20:01, 15 April 2023 BorkedBot (talk | contribs) . . (103,545 bytes) (+317) . . *(Add*
- (cur | prev) ○ 20:01, 15 April 2023 BorkedBot (talk | contribs) . . (103,228 bytes) (+284) . . *(Add*
- (cur | prev) ○ 15:07, 13 April 2023 RVA2869 (talk | contribs) . . (102,944 bytes) (+353) . . *(Updat*
- (cur | prev) ○ 15:06, 13 April 2023 RVA2869 (talk | contribs) . . (102,591 bytes) (+444) . . *(Adde*
- (cur | prev) ○ 15:06, 13 April 2023 RVA2869 (talk | contribs) . . (102,147 bytes) (+348) . . *(Creat*
- (cur | prev) ○ 15:04, 13 April 2023 RVA2869 (talk | contribs) . . (101,799 bytes) (+365) . . *(Creat*
- (cur | prev) ○ 15:03, 13 April 2023 RVA2869 (talk | contribs) . . (101,434 bytes) (+353) . . *(Updat*
- (cur | prev) ○ 15:03, 13 April 2023 RVA2869 (talk | contribs) . . (101,081 bytes) (+364) . . *(Updat*
- (cur | prev) ○ 15:02, 13 April 2023 RVA2869 (talk | contribs) . . (100,717 bytes) (+363) . . *(Updated Item)* (undo | thank) (restore)
- (cur | prev) ○ 15:02, 13 April 2023 RVA2869 (talk | contribs) . . (100,354 bytes) (+364) . . *(Updated Item)* (undo | thank) (restore)
- (cur | prev) ○ 10:35, 12 April 2023 OlafJanssen (talk | contribs) . . (99,990 bytes) (+417) . . *(Created claim: name (P2561): KB, nationale bibliotheek)* (undo) (Tag: Wikidata User Interface) (restore)
- (cur | prev) ○ 11:40, 26 March 2023 Oa01 (talk | contribs) . . (99,573 bytes) **(+1,232)** . . *(Changed claim: member of (P463): European Bureau of Library, Information and Documentation Associations (Documentation Associations (details))* (undo | thank) (Tag: OpenRefine 3.7) (restore)
- (cur | prev) ○ 09:43, 16 March 2023 本日晴天 (talk | contribs) . . (98,341 bytes) **(+1,095)** . . *(Added reference to claim: CiNii Books author ID (P271): DA07281917, #quickstatements; #temporary_batc*
- (cur | prev) ○ 09:43, 16 March 2023 本日晴天 (talk | contribs) . . (97,246 bytes) (+349) . . *(Created claim: CiNii Books author ID (P271): DA07281917, #quickstatements; #temporary_batch_16789568*

- *Every* edit is stored!
- And can be reverted.
- *Everything* is public!

https://www.wikidata.org/w/index.php?title=Q1526131&action=history

More details and help

How does Wikidata work?

Wikidata is a central storage repository that can be accessed by others, such as the wikis maintained by the Wikime
loaded dynamically from Wikidata does not need to be maintained in each individual wiki project. For example, statisti
other common data can be centralized in Wikidata.

The Wikidata repository

The Wikidata repository consists mainly of **items**, each one having a label, a description and any number of aliases. Items are uniquely identified by a `Q` followed by a number, such as Douglas Adams (Q42).

Statements describe detailed characteristics of an Item and consist of a **property** and a **value**. Properties in Wikidata have a `P` followed by a number, such as with educated at (P69).

For a person, you can add a property to specify where they were educated, by specifying a value for a school. For buildings, you can assign geographic coordinates properties by specifying longitude and latitude values. Properties can also link to external databases. A property that links an item to an external database, such as an authority control database used by libraries and archives, is called an **identifier**. Special Sitelinks connect an item to corresponding content on client wikis, such as Wikipedia, Wikibooks or Wikiquote.

All this information can be displayed in any language, even if the data originated in a different language. When accessing these values, client wikis will show the most up-to-date data.

Item	Property	Value
Q42	P69	Q691283
Douglas Adams	educated at	St John's College

Working with Wikidata

There are a number of ways to access Wikidata using built-in tools, external tools, or programm

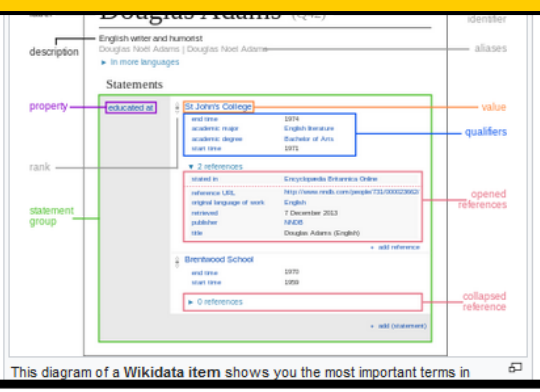
- Wikidata Query and Reasonator are some of the popular tools to search for and examin
  projects to explore.
- Client wikis can access data for their pages using a Lua Scribunto interface. You can retriev

Where to get started

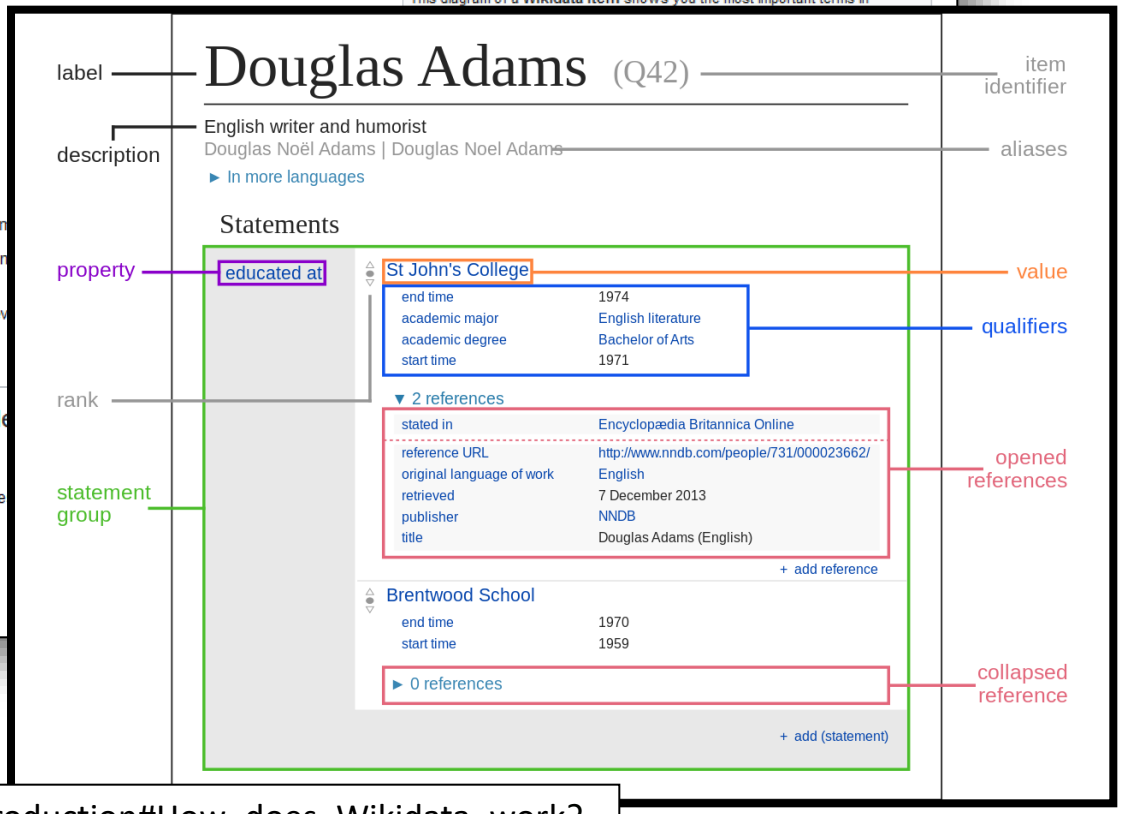
The **Wikidata tours**, designed for new users, are the best place to l

Some links to get started:

- Set your user options, especially the 'Babel' extension, to choose your language preference
- Help with missing labels and descriptions
- Help with interwiki conflicts and constraint violations
- Improve a random item
- Help translating



This diagram of a **Wikidata item** shows you the most important terms in



- https://www.wikidata.org/wiki/Wikidata:Introduction#How_does_Wikidata_work?
- https://www.wikidata.org/wiki/Wikidata:Glossary

We saw these slides before…

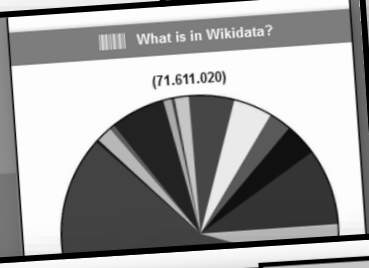
1. ~~Structured descriptions of things~~
2. **Centrally stored**

Wikidata describes all sorts of things

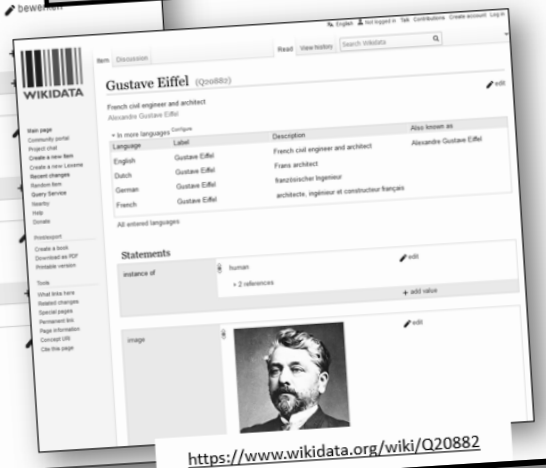
114M things, since October 2012

- Scientific articles
- People
- Animals and plants
- Events
- Countries, provinces, munic
- Streets, roads, squares
- Buildings
- Vehicles
- Companies and institutions
- Artworks (film, music, painti
- Chemical substances
- Astronomical objects
- Genes…
- Etc.

https://www.wikidata.org/w



4. **Linked data**
   - Things, not strings
   - Mutually (inter)connected



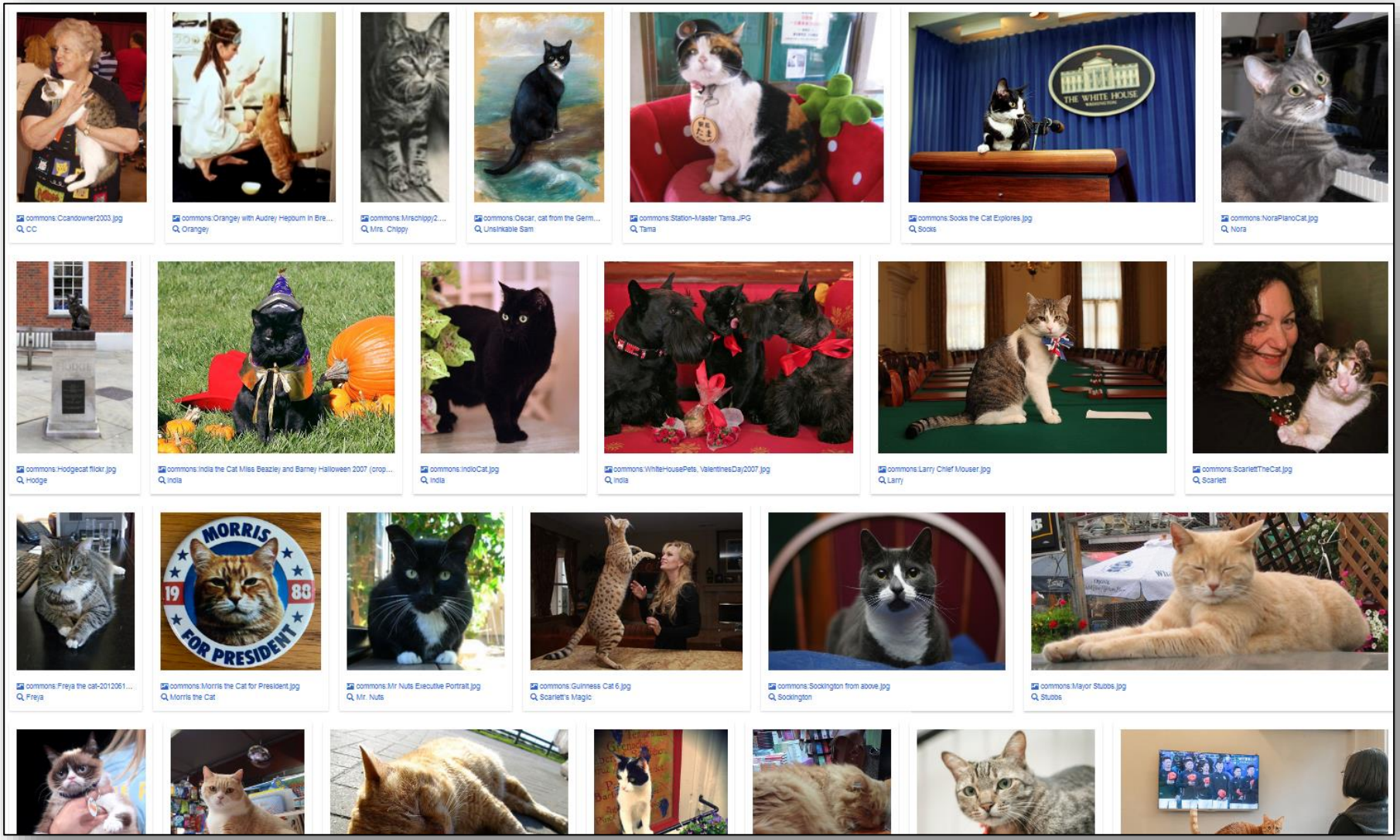
Centrally stored + all sorts of things + everything (inter)connected

=

WIKIDATA
and
SPARQL

SPARQL =
Search language in Wikidata
(and other LOD databases)

Depictions of house cats



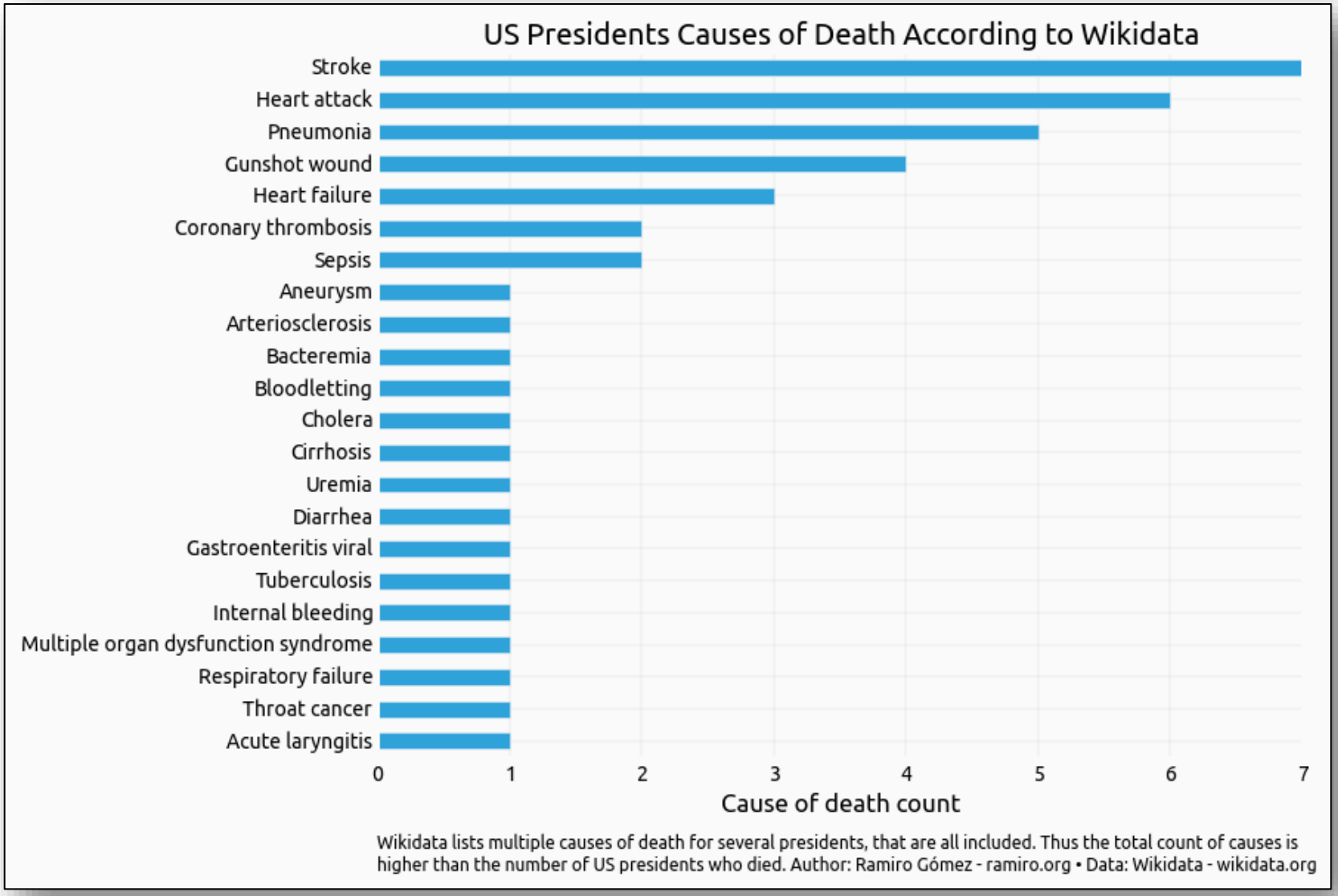
https://w.wiki/xKz, dd 01-10-2024

Things named after French presidents, outside of France

wd:Q19520574	Lycée Charles-de-Gaulle	Syrie
wd:Q3268616	lycée Carnot de Tunis	Tunisie
wd:Q4525122	École secondaire n° 1251 Charles de Gaulle	Russie
wd:Q21055129	école de Gaulle-Adenauer	Allemagne
wd:Q27797590	boulevard Valéry Giscard d'Estaing	Côte d'Ivoire
wd:Q4828192	avenue Charles de Gaulle	Tchad
wd:Q20716685	lycée français François-Mitterrand	Brésil
wd:Q4274688	pont Général-de-Gaulle	Côte d'Ivoire
wd:Q2876412	Aïn Touta	Algérie
wd:Q3269062	lycée français Charles-de-Gaulle	Royaume-Uni
wd:Q3525508	Tunnel Deschanel	Belgique
wd:Q3396494	pont Charles-De Gaulle	Canada
wd:Q2873799	avenue Paul Deschanel	Belgique
wd:Q16545730	Centre Pompidou de Malaga	Espagne
wd:Q16896636	Q16896636	Norvège
wd:Q1669688	Rond-point Charles de Gaulle à Varsovie	Pologne
wd:Q43386768	Q43386768	République tchèque
wd:Q21044383	Lycée français Charles-de-Gaulle	Chili
wd:Q20982132	lycée français Charles-de-Gaulle	République centrafricaine
wd:Q3116163	stade Charles-de-Gaulle	Bénin
wd:Q5084025	Q508	

- https://w.wiki/87M
- https://blog.wikimedia.de/2016/10/30/10-cool-queries-for-wikidata-that-will-blow-your-mind-number-7-will-shock-you/

Causes of death of American presidents



https://ramiro.org/notebook/us-presidents-causes-of-death/

Dutch people nominated for Nobel prize, but never won

nominee	nomineeLabel		timesNominated
wd:Q437782	Simon Vestdijk		11
wd:Q276280	Johan Huizinga		7
wd:Q2574395	Willem Kloos		5
wd:Q441439	Henriette Roland Holst		3
wd:Q2272398	Adriaan Roland Holst		2
wd:Q2090464	J.C. Bloem		2
wd:Q586323	Albert Verwey		1
wd:Q202355	Arthur van Schendel		1
wd:Q211514	Frederik van Eeden		1

- https://w.wiki/7tg dd 01-10-2024
- Portrait of Simon Vestdijk 1932-1933 : https://www.flickr.com/photos/vestdijk-beeldbank/5196079016/in/album-72157632638240825, CC-BY-NC 2.0

THE MAN WHO WAS NOMINATED FOR THE NOBEL PRIZE 84 TIMES, BUT NEVER WON

November 5, 2017 | Melissa | One comment

Personally nominated for the Nobel Prize a record 84 times, Arnold Johannes Wilhelm Sommerfeld was one of the most influential physicists of all time, both because of his own accomplishments in the field and the many dozens of his students who turned into superstars in the world of science (including having four doctoral students go on to win the Nobel Prize, along with three of his other postgraduate students also taking home the award- the most eventual Nobel laureates all taught by one person).

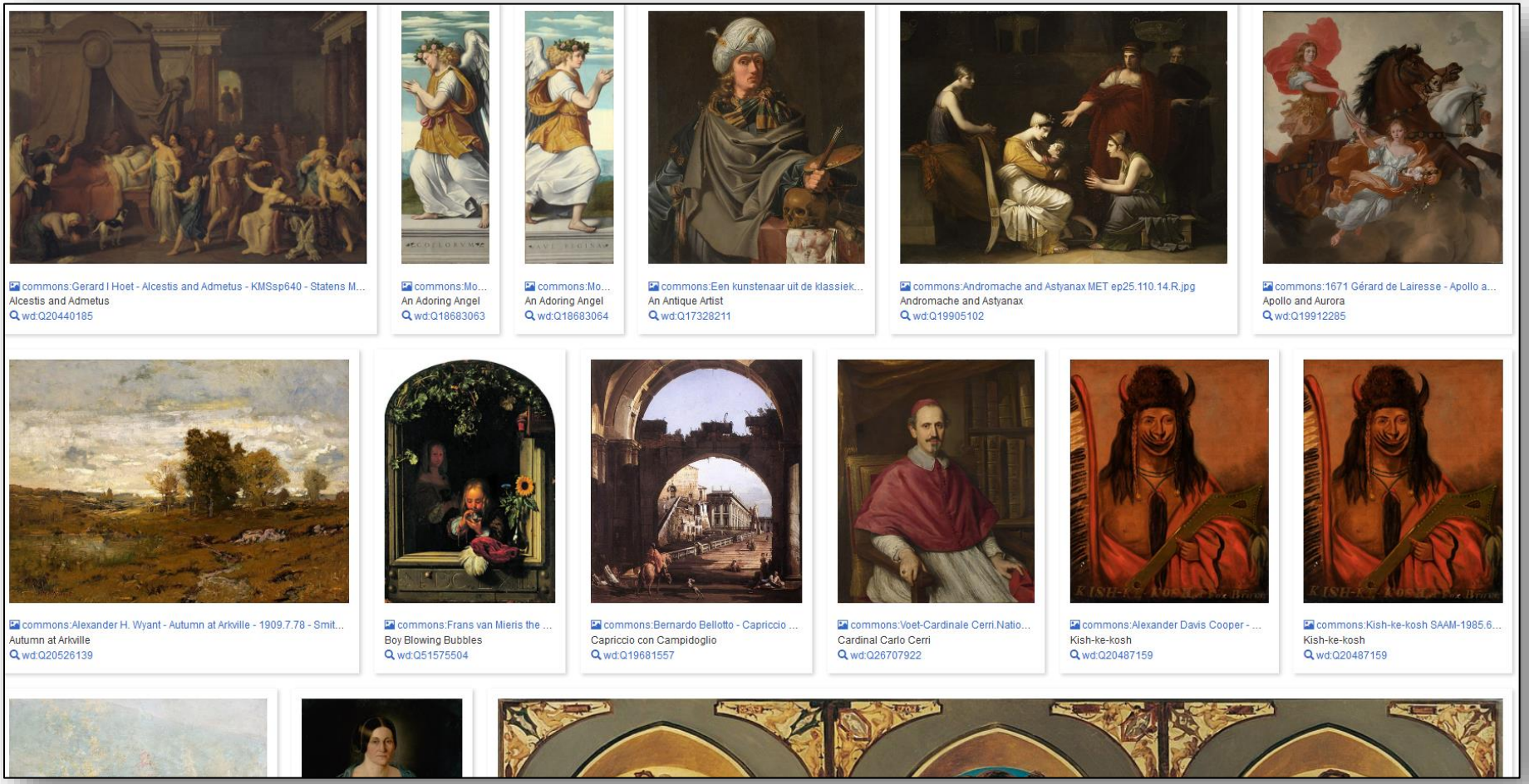
Born on December 5, 1868 in Königsberg, East Prussia, Sommerfeld began his career as a student of mathematics and the physical sciences at Albertina (aka University of Königsberg) in his hometown, where he received a Ph.D. on October 24, 1891.

After a year of compulsive military service ended in 1893, unlike so many academics of his era, Sommerfeld continued to serve as a volunteer for the next eight years on the side. Physically impressive, with a Prussian bearing and wearing a fencing scar on his magnificently mustachioed face, while in the service, Sommerfeld was famously described as managing "to give the impression of a colonel of the hussars," rather than a book-worm academic.

As for that scar, in his first year of study, the near "compulsory drinking bouts and fencing duels" not only resulted in said scar, but also hindered his studies significantly, which he later came to regret as wasted time.

https://web.archive.org/web/20190912110336/http://www.todayifoundout.com/index.php/2017/11/man-nominated-nobel-prize-84-times-never-won/
https://en.wikipedia.org/wiki/Arnold_Sommerfeld

Paintings with alliterative titles



- https://w.wiki/87S
- https://blog.wikimedia.de/2016/10/30/10-cool-queries-for-wikidata-that-will-blow-your-mind-number-7-will-shock-you/

10 largest cities with female mayors

city	cityLabel	population	mayor	mayorLabel
wd:Q1353	Delhi	26495000	wd:Q116872619	Shelly Oberoi
wd:Q1490	Tokio	14264798	wd:Q261703	Yuriko Koike
wd:Q2887	Santiago	6257516	wd:Q106866749	Irací Hassler
wd:Q3624	Addis Abeba	5228000	wd:Q101063239	Adanech Abebe
wd:Q34647	Johannesburg	4434827	wd:Q109682887	Mpho Phalatse
wd:Q65	Los Angeles	3898747	wd:Q461739	Karen Bass
wd:Q7903	Casablanca	3499000	wd:Q108699304	Nabila Rmili
wd:Q245023	Taichung	3033885	wd:Q8274707	Lu Shiow-yen
wd:Q1475	Quezon City	2960048	wd:Q64748125	Joy Belmonte

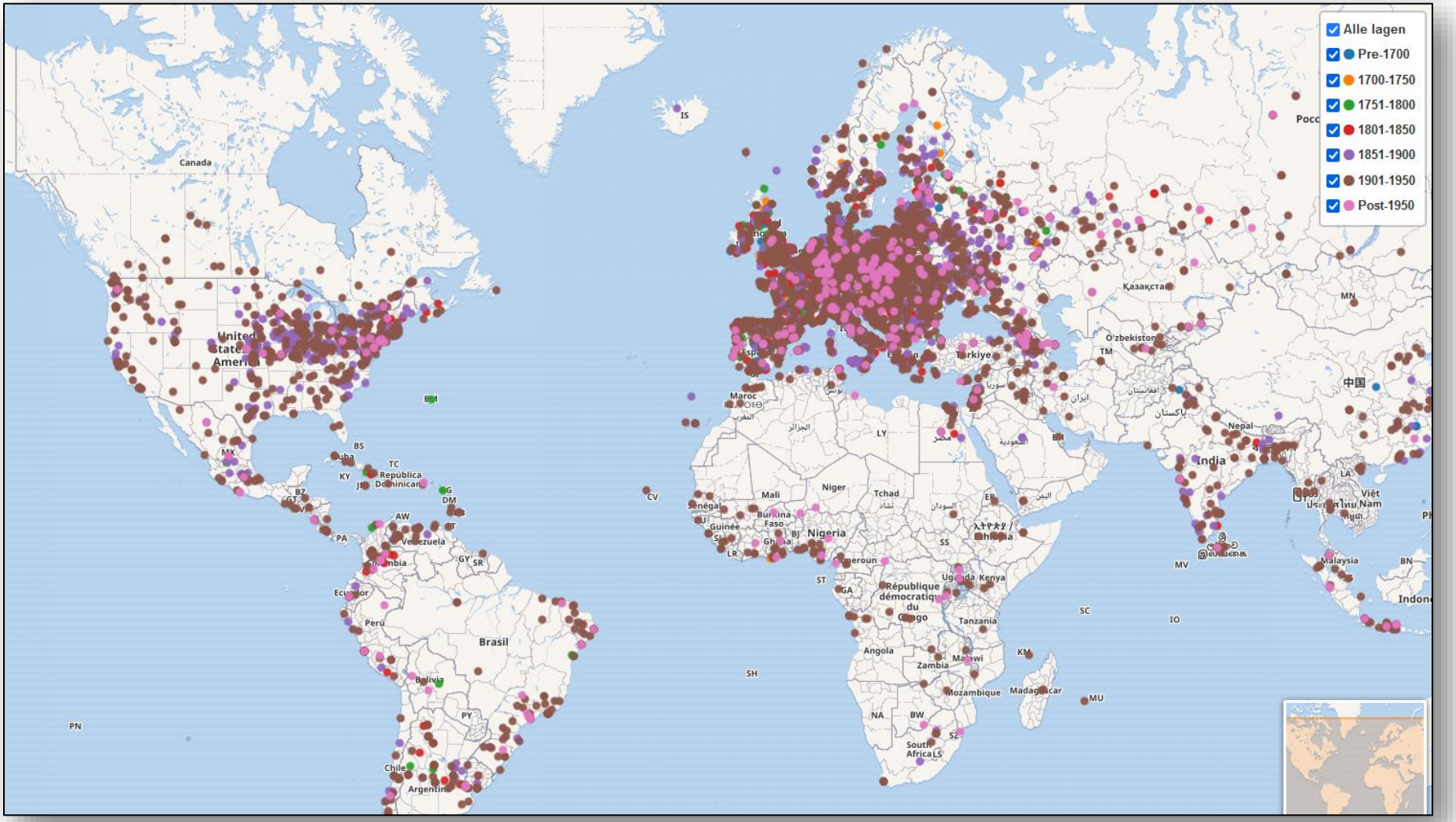
https://w.wiki/6kCQ dd 01-10-2024

Birthday calendar of women who studied at Oxford

monthLabel	d	personLabel	personDesc
januari	1	Sarah Nyendwoha Ntiro	academicus uit Oeganda (1926-2018)
januari	2	Ophélie Véron	Frans feministe
januari	3	Carla Anderson Hills	Amerikaans politica
januari	4	Katharine Viner	Brits journaliste
januari	5	Lisa Jeffrey	Canadees wiskundige
januari	6	Paula Fredriksen	Amerikaans historica
januari	7	Miranda Sawyer	Brits journaliste
januari	8	Mary Levison	ambtenaar
januari	9	Sarah Grochala	schrijver
januari	10	Rebecca Wilcox	Brits televisiepresentatrice
januari	11	Clara Shih	Amerikaans bestuursvoorzitter
januari	12	Misha Mahowald	Amerikaans neurowetenschapster (1963-1996)
januari	13	Katy Brand	Brits actrice
januari	14	Beth Shapiro	Amerikaans biologe
januari	15	Mahchehreh Khalili	actrice uit Iran
januari	16	Susan Sontag	Amerikaans schrijfster
januari	17	Fang Zhaoling	Chinees kunstschilderes (1914-2006)
januari	18		
januari	19	Nina Bawden	Brits schrijfster (1925-2012)
januari	20	Elisabeth Bennington	Amerikaans politica

https://w.wiki/7tn dd 01-10-2024

Birthplaces of deceased economists, by time period



https://w.wiki/87T dd 01-10-2024

Who builds Wikidata?

4) The Wikidata community

Wikidata community

- 23K active contributors
- 2.25B edits, since Oct 2012

- Pierre-Selim Huard, CC BY 4.0 via Wikimedia Commons, https://commons.wikimedia.org/wiki/File:WikidataCon_2019_-_2019-10-26_-_2636_-_Group_Photo.jpg
- https://www.wikidata.org/wiki/Wikidata:Statistics, 04-10-2024

Wikidata community

ChatGTP, 02-05-2023

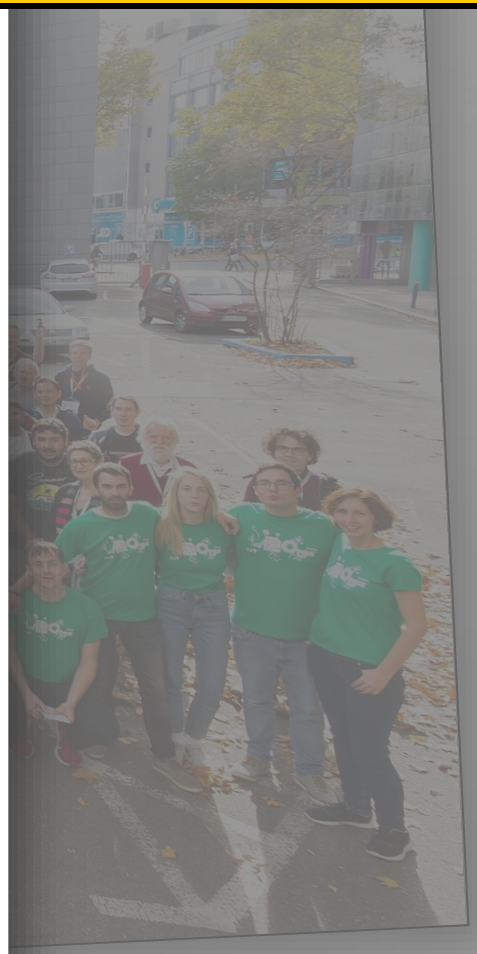
What can you tell me about the Wikidata community?

The Wikidata community is a group of volunteers who contribute to the development and maintenance of Wikidata, which is a free and open knowledge base that can be read and edited by humans and machines alike. Wikidata is a project of the Wikimedia Foundation, which also oversees Wikipedia and several other free knowledge projects.

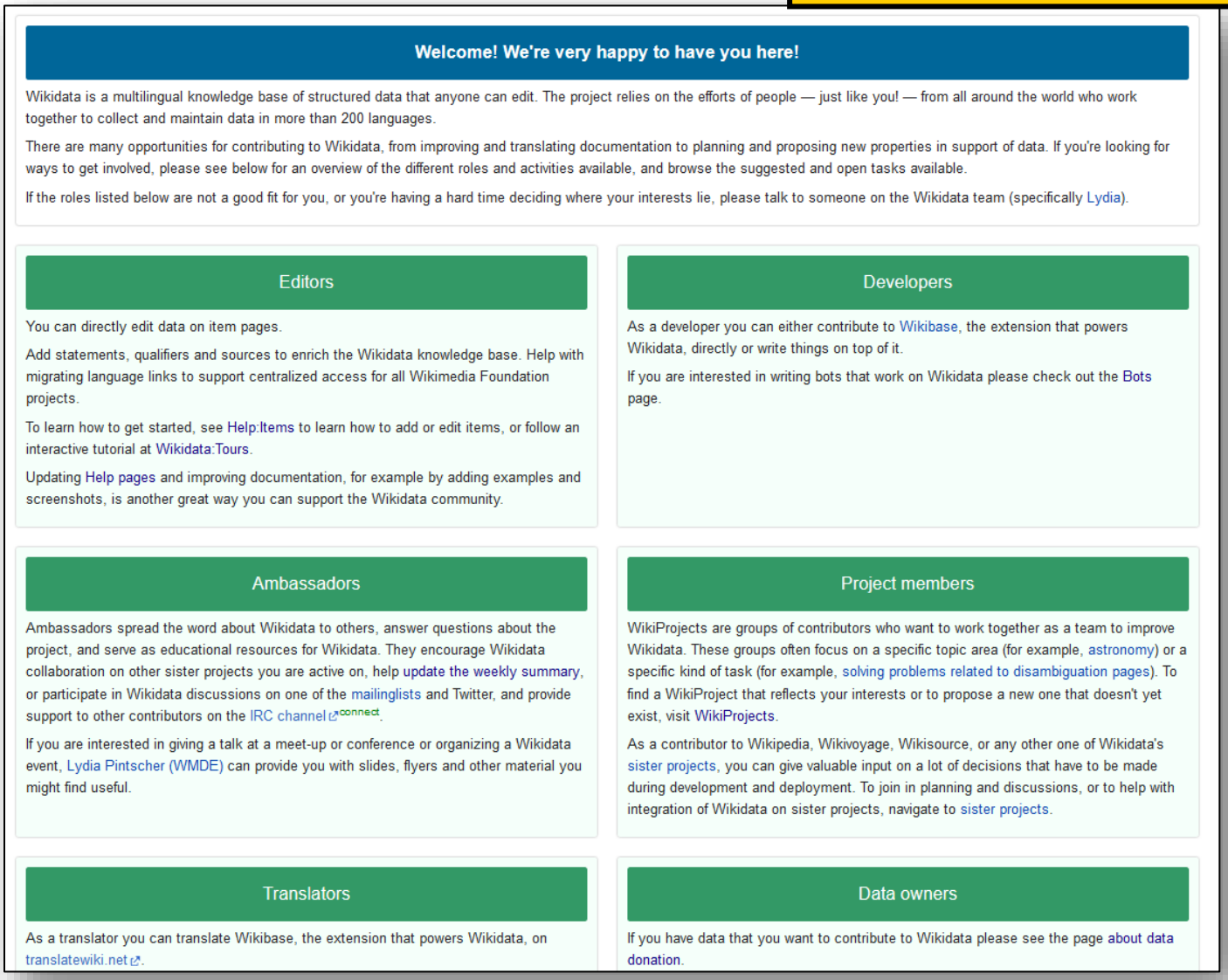
The Wikidata community is a diverse group of individuals from around the world, including editors, developers, researchers, and enthusiasts. They collaborate online to build and improve Wikidata's database of structured data, which includes information about people, places, things, and concepts. The community is committed to making this data available to everyone, including researchers, journalists, developers, and anyone else who wants to use it.

The Wikidata community is governed by a set of community policies and guidelines, which are developed and maintained by the community itself. These policies and guidelines cover everything from the way data should be entered and structured to the way disputes should be resolved. The community is also responsible for developing and maintaining the software and tools that make it possible to contribute to and use Wikidata.

The Wikidata community is open to anyone who wants to participate, regardless of their level of experience or expertise. There are many ways to get involved, including editing data, translating content, reporting bugs, writing code, and participating in discussions. The community also organizes events and meetups around the world, where people can come together to learn from each other and collaborate on Wikidata projects.



Wikidata community roles



Welcome! We're very happy to have you here!

Wikidata is a multilingual knowledge base of structured data that anyone can edit. The project relies on the efforts of people — just like you! — from all around the world who work together to collect and maintain data in more than 200 languages.

There are many opportunities for contributing to Wikidata, from improving and translating documentation to planning and proposing new properties in support of data. If you're looking for ways to get involved, please see below for an overview of the different roles and activities available, and browse the suggested and open tasks available.

If the roles listed below are not a good fit for you, or you're having a hard time deciding where your interests lie, please talk to someone on the Wikidata team (specifically Lydia).

Editors

You can directly edit data on item pages.

Add statements, qualifiers and sources to enrich the Wikidata knowledge base. Help with migrating language links to support centralized access for all Wikimedia Foundation projects.

To learn how to get started, see Help:Items to learn how to add or edit items, or follow an interactive tutorial at Wikidata:Tours.

Updating Help pages and improving documentation, for example by adding examples and screenshots, is another great way you can support the Wikidata community.

Developers

As a developer you can either contribute to Wikibase, the extension that powers Wikidata, directly or write things on top of it.

If you are interested in writing bots that work on Wikidata please check out the Bots page.

Ambassadors

Ambassadors spread the word about Wikidata to others, answer questions about the project, and serve as educational resources for Wikidata. They encourage Wikidata collaboration on other sister projects you are active on, help update the weekly summary, or participate in Wikidata discussions on one of the mailinglists and Twitter, and provide support to other contributors on the IRC channel connect.

If you are interested in giving a talk at a meet-up or conference or organizing a Wikidata event, Lydia Pintscher (WMDE) can provide you with slides, flyers and other material you might find useful.

Project members

WikiProjects are groups of contributors who want to work together as a team to improve Wikidata. These groups often focus on a specific topic area (for example, astronomy) or a specific kind of task (for example, solving problems related to disambiguation pages). To find a WikiProject that reflects your interests or to propose a new one that doesn't yet exist, visit WikiProjects.

As a contributor to Wikipedia, Wikivoyage, Wikisource, or any other one of Wikidata's sister projects, you can give valuable input on a lot of decisions that have to be made during development and deployment. To join in planning and discussions, or to help with integration of Wikidata on sister projects, navigate to sister projects.

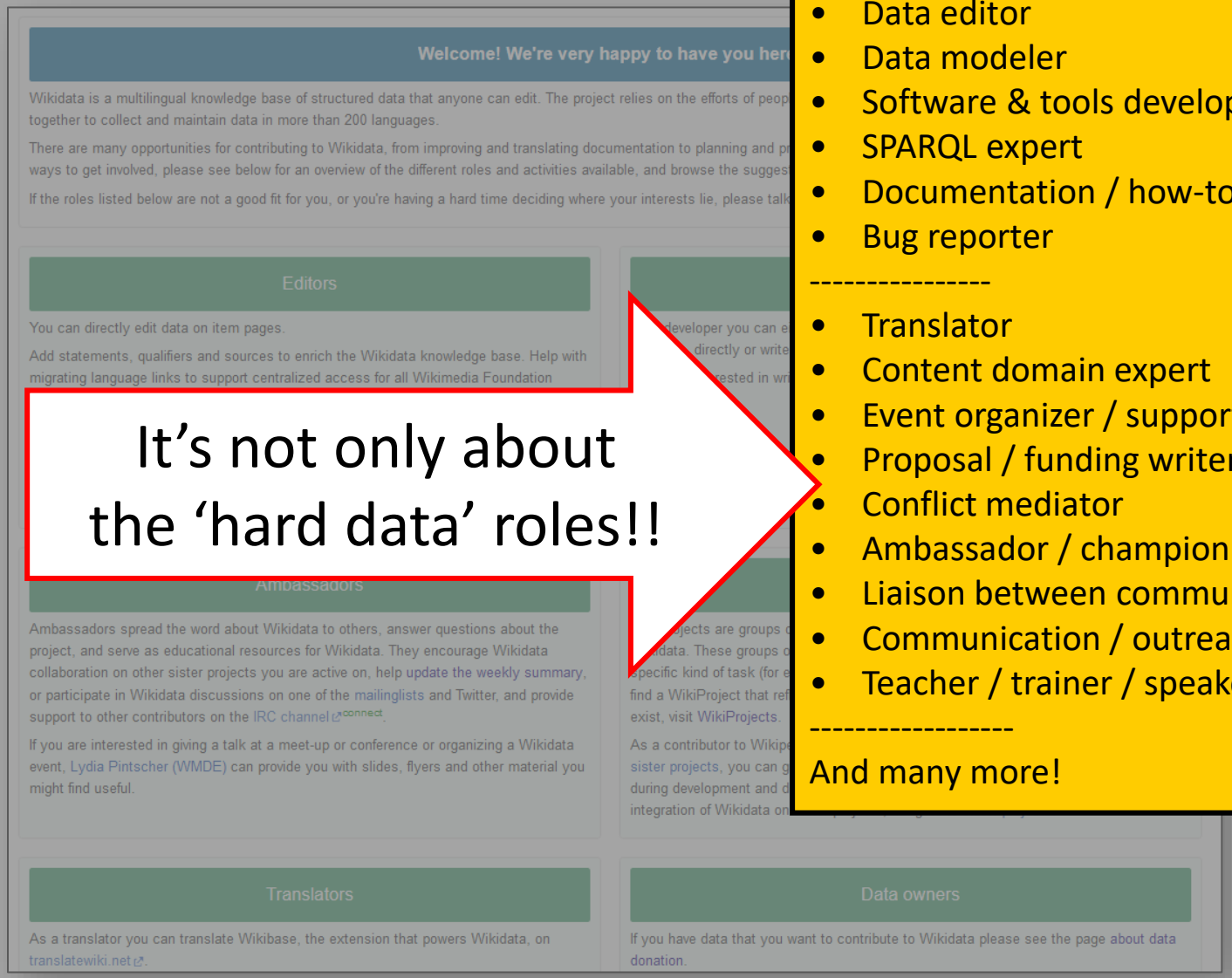
Translators

As a translator you can translate Wikibase, the extension that powers Wikidata, on translatewiki.net.

Data owners

If you have data that you want to contribute to Wikidata please see the page about data donation.

https://www.wikidata.org/wiki/Wikidata:Contribute



It's not only about the 'hard data' roles!!

Wikidata community roles

- Data editor
- Data modeler
- Software & tools developer
- SPARQL expert
- Documentation / how-to writer
- Bug reporter

- Translator
- Content domain expert
- Event organizer / supporter
- Proposal / funding writer
- Conflict mediator
- Ambassador / champion / promotor
- Liaison between community and GLAMs
- Communication / outreach
- Teacher / trainer / speaker

And many more!

https://www.wikidata.org/wiki/Wikidata:Contribute

Wikidata community mindset

What an you tell me about the mindset of/behind the Wikidata community?

The mindset behind the Wikidata community is shaped by values that center on collaboration, open knowledge sharing, inclusivity, and a
are some key aspects of the Wikidata

1. Openness and Transparen

The community is committed to oper
freely available to anyone. This comm
knowledge freely accessible, which is
also extends to discussions and decis
inclusiveness.

2. Collaboration and Collecti

Wikidata is a collaborative project wh
shared database. The community ope
"wisdom of the crowd," believing that
meaningful. This requires a willingnes

3. Inclusivity and Diversity

The community values inclusivity, enc
languages, and expertise. The decentr
geographical regions and disciplines
rich, multi-faceted database that refle

6. Innovation and Experimentation

The community is open to trying new tools, technologies, and methodologies to improve data curation, retrieval, and visualization. This is evident in the variety of tools and bots developed by community members to automate data imports, resolve conflicts, and maintain consistency. There is a strong culture of experimentation, where individuals are encouraged to develop and test new ideas to enhance the project.

7. Supportive Learning Environment

The community mindset emphasizes helping each other grow and learn. Whether you're a newcomer or an experienced contributor, the Wikidata community provides support through documentation, discussion forums, and mentorship. There is an understanding that learning how to model data, use SPARQL, and navigate the platform is an ongoing process, and there is patience and encouragement for those on this journey.

8. Commitment to Global Impact

Wikidata contributors often have a passion for knowledge-sharing that extends beyond individual interests; they see their work as contributing to a larger global ecosystem of open knowledge. The community mindset often includes the idea of empowering underrepresented languages and cultures, making data accessible across borders, and contributing to global knowledge equity.

"What can you tell me about the mindset of/behind the Wikidata community?" - ChatGPT, 04-10-2024

Wikidata community events

- https://www.wikidata.org/wiki/Wikidata:Events + https://www.wikidata.org/wiki/Wikidata:Events/archive
- https://www.wikidata.org/wiki/Category:Wikidata_Events + https://www.wikidata.org/wiki/Category:Events
- Media taken from https://commons.wikimedia.org/wiki/Category:Wikidata_events

WikidataCon

WIKI DATA CON

the conference dedicated to the Wikidata community

Wikidata:WikidataCon 2019

WIKI DATA CON

the conference for open data enthusiasts

25 – 26 October 2019 | Berlin, Germany

Welcome | Attend | Volunteer | Program

Access to the videos of the Wikidatacon 2019 sessions

After the success of the first WikidataCon in 2017, the conference is taking place again! The WikidataCon 2019 will take place on **Octob 25th-26th 2019 in Berlin**. The conference is fully booked, which means **there are no available seats left**.

The event will be focused on **networking and strategic discussions** around Wikidata. The target group will of course include the Wikida community in its broad sense, especially people and organizations who are already involved in editing, structuring and reusing the data, i ...ther the organizations who may be interested in **using Wikidata and Wikibase**, or contributing in various ways to the evolution

...ticipants: from being inspired (wit

Wikidata:WikidataCon 2021

WIKI DATA CON

WikidataCon 2021 | A sustainable future for Wikidata | Online conference | 29-30-31 October 2021

Welcome | Program | Reimagining Wikidata from the margins | Attend | Latin America and Caribbean grants | Contribute | Organization | Documentation

After the first two editions in 2017 and 2019, the WikidataCon took place again in October 2021.

The WikidataCon is an event focused on the **Wikidata community** in a broad sense: editors, tools builders, but also 3rd party reusers, partner organizations that are using or contributing to the data, the ecosystem of organizations working with Wikibase. The content of the conference will have some parts dedicated to people who want to learn more about Wikidata, some workshops and discussions for the community to share skills and exchange about their practices, and some space left to include side events for specific projects (WikiCite, Wikibase, GLAM, etc.).

As the global COVID pandemic was still hitting the world, the conference took place entirely online. Some small local gatherings were organized by participants to attend the event together. The conference ran on October 29, 30 and 31, and took place on the online platform Venueless. The program was designed and hosted on Pretalx.

The organization and coordination of the WikidataCon was a collaboration between Wikimedia Germany and Wiki Movimento Brasil who brought their experience in running Wikidata community events. Together, we made make sure that the program would include a great diversity of speakers, and we also ran the program Reimagining Wikidata from the margins that aims at empowering people from underrepresented groups on Wikidata.

Visual identity of the WikidataCon 2021

We would like to thank all participants for their active contributions, the interesting discussions and the great mood during the conference. Many thanks to the speakers, the program curators, the helpers and many people who made this event a great success.

Documentation, reports and further content will come soon. You can already check the documentation overview and help us collecting slides, links and transferring the Etherpad notes to wikipages in the full list of sessions.

If you would like to share feedback about the conference publicly, feel free to write on the talk page. If you have any questions, ideas, or suggestions, feel free to also use this talk page or write to info@wikidatacon.org.

Brazil

https://www.wikidata.org/wiki/Wikidata:WikidataCon_2021 + https://www.wikidata.org/wiki/Wikidata:WikidataCon_2019 + https://www.wikidata.org/wiki/Category:WikidataCon https://commons.wikimedia.org/wiki/Category:WikidataCon + https://commons.wikimedia.org/wiki/File:WikidataCon_2019_-_2019-10-26_-_2636_-_Group_Photo.jpg, Pierre-Selim Huard, CC BY 4.0 via Wikimedia Commons + https://commons.wikimedia.org/wiki/File:Participant_WikidataCon.jpg, Kitanago, CC BY-SA 4.0 <https://creativecommons.org/licenses/by-sa/4.0>, via Wikimedia Commons

- Media: https://commons.wikimedia.org/wiki/Category:Wikidata_events

Wikidata Birthdays

Wikidata's 12th birthday

ikidata's distributed birthday | October-November 2024 | #WikidataBirthday

Overview | Run an event | Presents & messages | Articles & videos | Discussions

ikidata went live on 29 October 2012 ; in 2024, we are celebrating **12 years of Wikidata together**! Let's rganize celebration events all around the world. We are hoping to create a huge network of **decentralized, ocal and community-led events**, that could take place onsite or online, in October and November 2024.

he goal of these birthday celebrations are to **celebrate the achievements of the community**, to bring eople together, and also to talk about Wikidata to the rest of the world in order to **get more people onboard**. In various areas of the world, people get together to organize plenty of different birthday events: meetups, workshops, discussions, live streams, editing campaigns... You can have a look at the **events calendar below** to find events in your area.

Wikidata's 10th birthday distributed events. All times in the map are in Coordinated Universal Time (U

Wikidata:Seventh Birthday/Presents

< Wikidata:Seventh Birthday

Here are the presents made by the community and the developers. These presents can b *eces of work like docume*

You can also watch the **birthday presents demo session during WikidataCon**.

- Lexeme uploading tool. -Theklan (talk) 12:56, 15 October 2019 (UTC) [reply]
- Wiki Art Depiction Explorer (WADE) special feature - Fuzheado (talk) 18:46, 21 October 2019 (UTC) [reply]
- MachtSinn - MichaelSchoenitzer (talk)
- The Wikidata Languages Landscape: an analytical system to study the organization, use, and reuse of languages in Wikidata and acr [reply]
- Structured Data on Commons support in Wikidata Image Positions - Lucas Werkmeister (talk)
  - Demo link: toolforge:wd-image-positions/file/CSD Berlin 2019 - Lucas Werkmeister - 24 - Bi, Pan, Ace Flags.jpg
  - more details will be added later
- Blog post in: SLUBlog with Saxonica-Queries. --Jeb (talk) 11:31, 23 October 2019 (UTC) [reply]
- Blog post in: SLUBlog with Saxonica-Queries. --Jeb (talk) 11:31, 23 October 2019 (UTC) [reply]

October 2019 (UTC) [reply]

https://www.wikidata.org/wiki/Wikidata:Twelfth_Birthday - https://www.wikidata.org/wiki/Wikidata:Tenth_Birthday#Events_calendar - https://www.wikidata.org/wiki/Wikidata:Seventh_Birthday/Presents - https://commons.wikimedia.org/wiki/Category:Wikidata%27s_10th_birthday_Benin

Wikidata workshops & trainings

Wikidata:Events/Wikidata for beginners

< Wikidata:Events

Practical information:

- service on Internet (Q1668024) (what platform is required to access this event?): Google
- Call link: https://hangouts.google.com/call/t22dfaXH3KZDQk8LJVccAEEI
  - Call group chat: Group chat is found in the bottom left part of the screen by clicking on an icon.
  - Group chat link: https://hangouts.google.com/group/vdBiSa3ejcCZ7QZ77
- calendar date (Q205892) (when?): Wednesday 1 April between 11:00-15:00 UTC
- language (Q34770) (what language can I speak during the event?): English (Q1860)
- media (Q340169) (what is the main medium of communication?): voice (Q7390), desktop sharing (Q1123

The host is aware of April Fools' Day (Q80949) and its association with Western culture (Q478958).(The ho
as that would reflect poorly on them, the host wants to avoid conflicts and misunderstandings as much as

This event is a global event. People from all cultures are welcome as long as we keep it in English or we
languages we use.

Wikidata:Events/Atelier Wikidata à Montréal

< Wikidata:Events

Atelier Wikidata, le **14 août 2017**, de 13h à 17h (UTC-4) à Montréal.

Contents [show]

Programme [edit | edit source]

- **introduction générale à Wikidata**, le projet, la structure des données, des exemples de réu
- **atelier de contribution** : les participants en autonomie, ajoutent des informations
  dans Wikidata (15min)
- **atelier de requê**

Wikidata:Events/EuropeanaTech 2018 Wikidata workshop day

< Wikidata:Events

On Monday 14 May, Europeana and Wikimedia host a day of free in-depth GLAM-Wiki workshops around Wikidat
structured data on Wikimedia Commons, at the Europeana offices in The Hague. This day is organized in collaboration
and precedes the **EuropeanaTech Conference 2018**, which takes place in Rotterdam 15 and 16 May.

- **When?** Monday 14 May, 2018, from 09:30 till 17:00. Coffee, lunch and a 'borrel' (drinks) will be provided.
- **Where?** Europeana offices at Koninklijke Bibliotheek (National Library of the Netherlands), Prins Willem Alexanderhof 5, The Hague (next to Den Haag Centraal Station). Map
- **For whom?** These workshops are suitable for staff of cultural organizations (GLAMs) who want to learn (more) about Wikidata and structured data on Wikimedia Commons. There are beginner and intermediate/advanced level workshops. A maximum of 50 people can attend.
- **How to participate?** The workshop day is a free and optional addition to the EuropeanaTech Conference program. **Please note that the workshop day is now fully booked!**
- **How to prepare?**
  - Bring your laptop! Editing Wikidata on a tablet or mobile phone is not very user friendly yet - a laptop is highly recommended.
  - If you don't have a Wikidata account yet, please create one before the event. You can do that here: https://w ww.wikidata.org/w/index.php?title=Special:CreateAccount
- Wikimedia Friendly space policy applies to this event.

ntents [show]

ogram [edit | edit source]

europear

WIKIDATA

Wikidata:Twelfth Birthday/Workshop in Maastricht

< Wikidata:Twelfth Birthday

Contents [show]

Wikidata Birthday Celebration / Workshop: Navigating the World of Wiki Cultural Heritage [edit | edit source]

Date and location [edit | edit source]

- **Date and Time**: Tuesday 15 October 2024, 13:30-16:00
- **Location**: The Plant, Grote Gracht 76, Room 0.10, Maastricht University-FASoS, 6112 SZ, Maastricht, The Netherlands
- **Organizers**: Maastricht University Library & The Plant and KB, national library of the Netherlands.
- **Languages**: English

Event description [edit | edit source]

https://theplant.maastrichtuniversity.nl/event/navigating-the-world-of-wikidata-for-research-science-and-cultural-heritage-2/

Wikidata is a free, collaborative, multilingual database, collecting structured open data for anyone in the world to use. It also plays supporting Wikimedia projects, such as Wikipedia and Wikimedia Commons. Over the last 12 years it has strongly increased in p scientific and cultural heritage communities.

In this 2,5 hours workshop you will learn the basics of working with Wikidata, both in theory and practice. You will learn

1. The basics of Wikidata: What it is, and how it works, both technically and socially,

https://www.wikidata.org/wiki/Wikidata:Events/Atelier_Wikidata_%C3%A0_Montr%C3%A9al - https://www.wikidata.org/wiki/Wikidata:Twelfth_Birthday/Workshop_in_Maastricht - https://www.wikidata.org/wiki/Wikidata:Events/Wikidata_for_beginners - https://www.wikidata.org/wiki/Wikidata:Events/EuropeanaTech_2018_Wikidata_workshop_day

Wikidata hackathons & editathons

Wikidata:Events/GLOW Edithaton

< Wikidata:Events

Global Legislative Openness Week (GLOW) is an annual celebration of open, participatory legislative processes around the world. This year´s campaign will start on November 20. So in this context, Wikimedia Spain and mySociety organize an edithaton, as part of the every politician project, to improve the existing information in parliamentarians.

Contents show

When and where [edit | edit source]

The event will take place on Wednesday, November 29, 2017 at Medialab-Prado (Madrid) betwe pm.

Wikidata:Events/Wikidata Zurich Hackathon2019

< Wikidata:Events

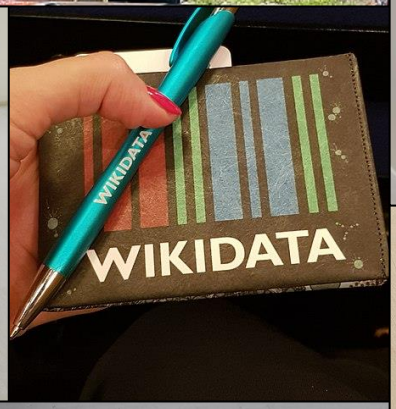
Information [edit | edit source]

- **What?** Wikidata Zurich Hackathon (2019 edition). See Wikidata Zurich Hackathon for the 2018 ed
- **Where?** University of Zurich. UZH Main Building in the center. Address: Karl Schmid-Strasse 4, 80
- **When?** Saturday November 23 (9:00 - 20:00), Sunday November 24 (9:00 - 14:00), 2019.
- **Audience expected?** computer science students, open source developers, private companies technology. Anyone who enjoys coding with great data!

https://www.mediawiki.org/wiki/Wiki_Techstorm_2018 - https://www.wikidata.org/wiki/Wikidata:Events/Wikidata_Zurich_Hackathon2019 - https://www.wikidata.org/wiki/Wikidata:Events/GLOW_Edithaton - https://commons.wikimedia.org/wiki/Category:Wikimedia_Hackathon_Athens_2023#/media/File:Wikimedia_Hackathon_2023_-_Day_2_%E2%80%93_4.jpg

- Media: https://commons.wikimedia.org/wiki/Category:Wikidata_events

Wikidata swag



https://commons.wikimedia.org/wiki/File:Wikidata_Eighth_Birthday_celebration_in_Nigeria_64.jpg // Olaf Janssen, eigen werk, BY-SA 4.0 //
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https://commons.wikimedia.org/wiki/File:%C3%96ppna_upp_dina_data.jpg // https://commons.wikimedia.org/wiki/File:Wikidata_Key_chains.jpg

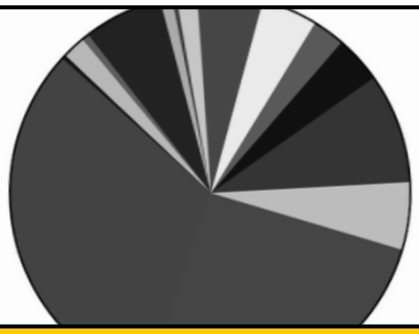
5) Wikidata for research, science and cultural heritage

We saw this slide before…

Wikidata describes all sorts of things

114M things, since October 2012

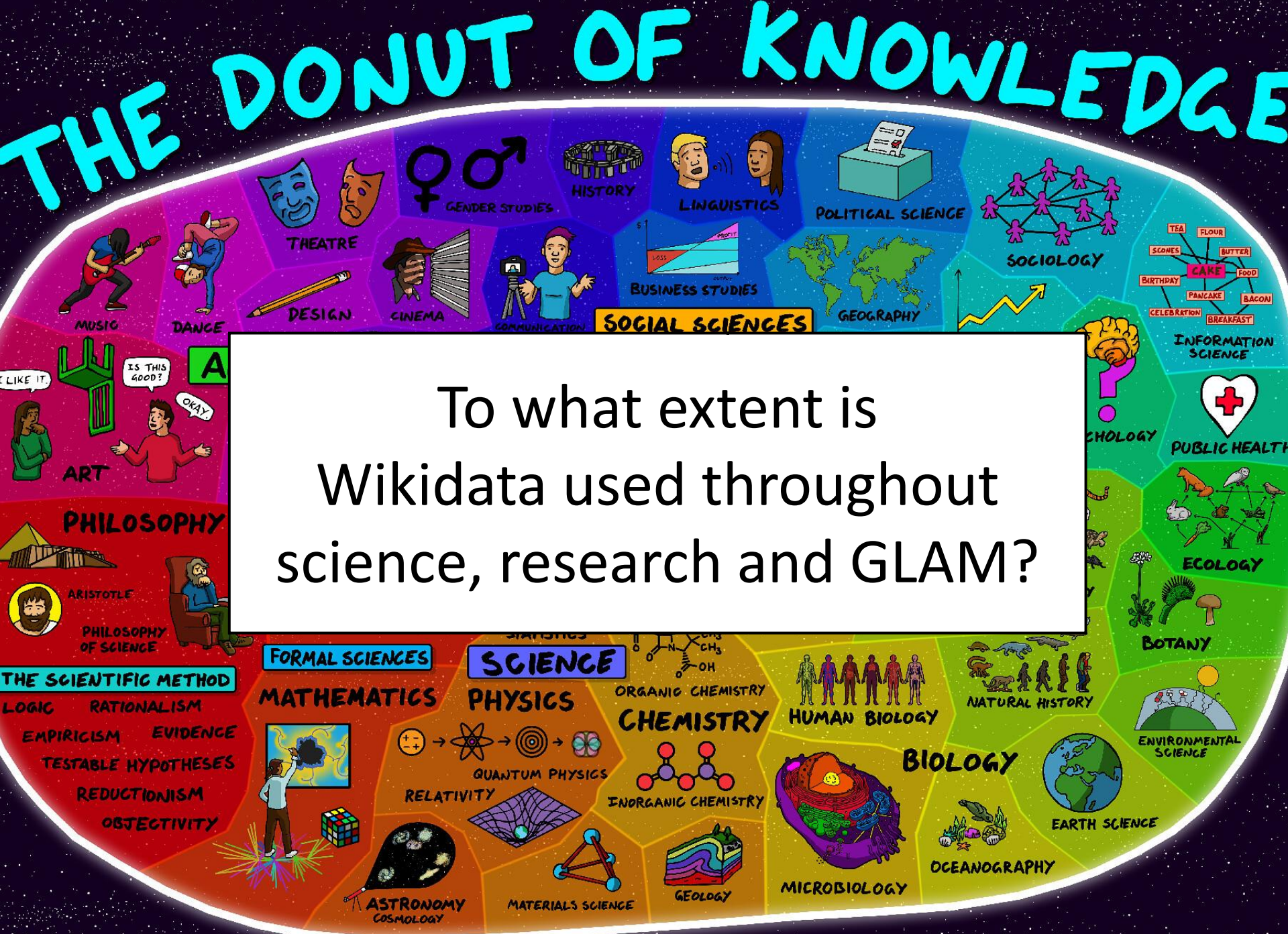
- Scientific articles
- People
- Animals and plants
- Chemical substances
- Astronomical objects
- Genes…
- Etc.



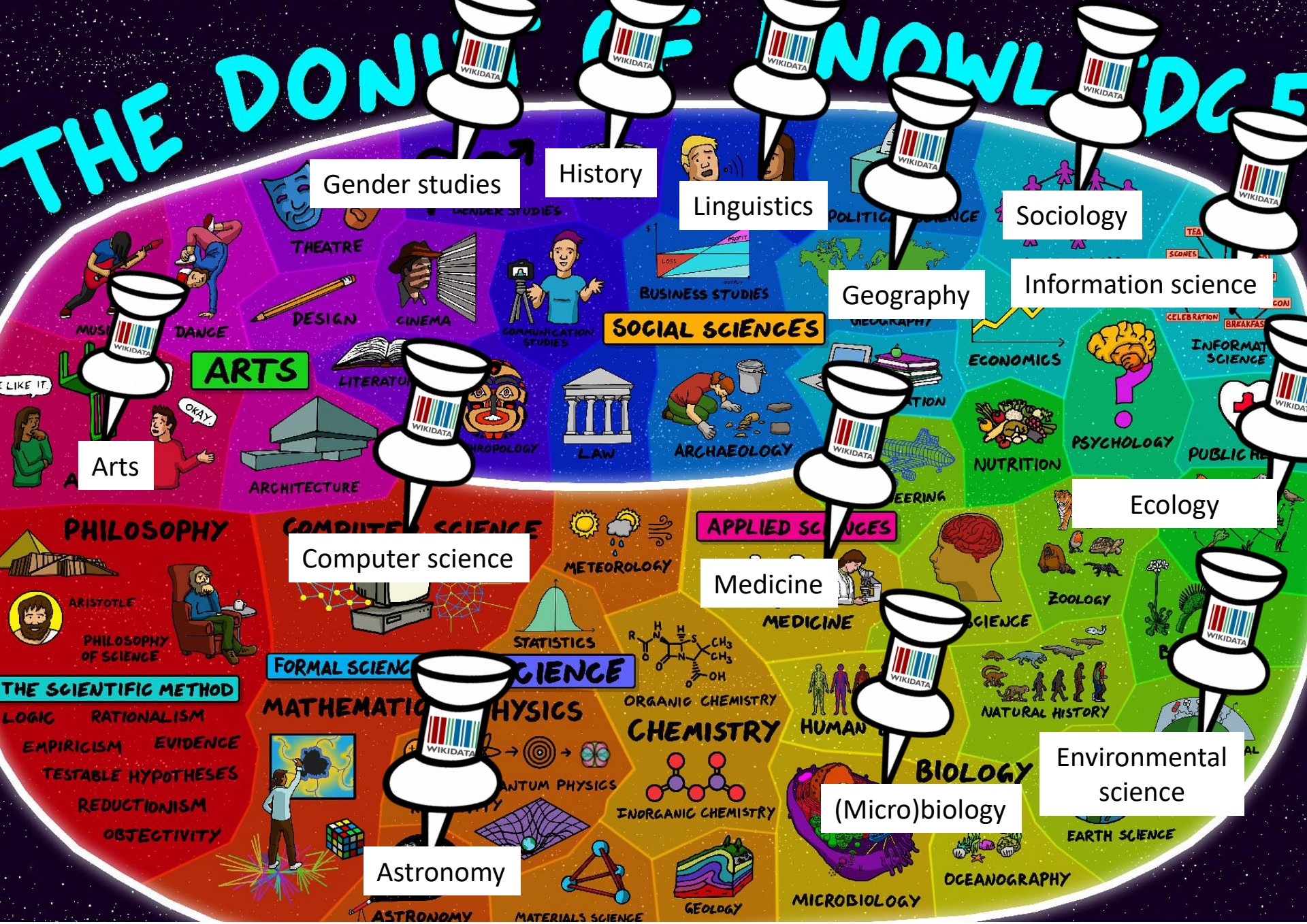
hemellichaam: 4,601,733 (6.4%)
Wikimedia-lijst: 404,454 (0.6%)
Wikimedia-doorverwijspagina: 1,358,230 (1.9%)

Wikidata holds data about many fields of science and research…

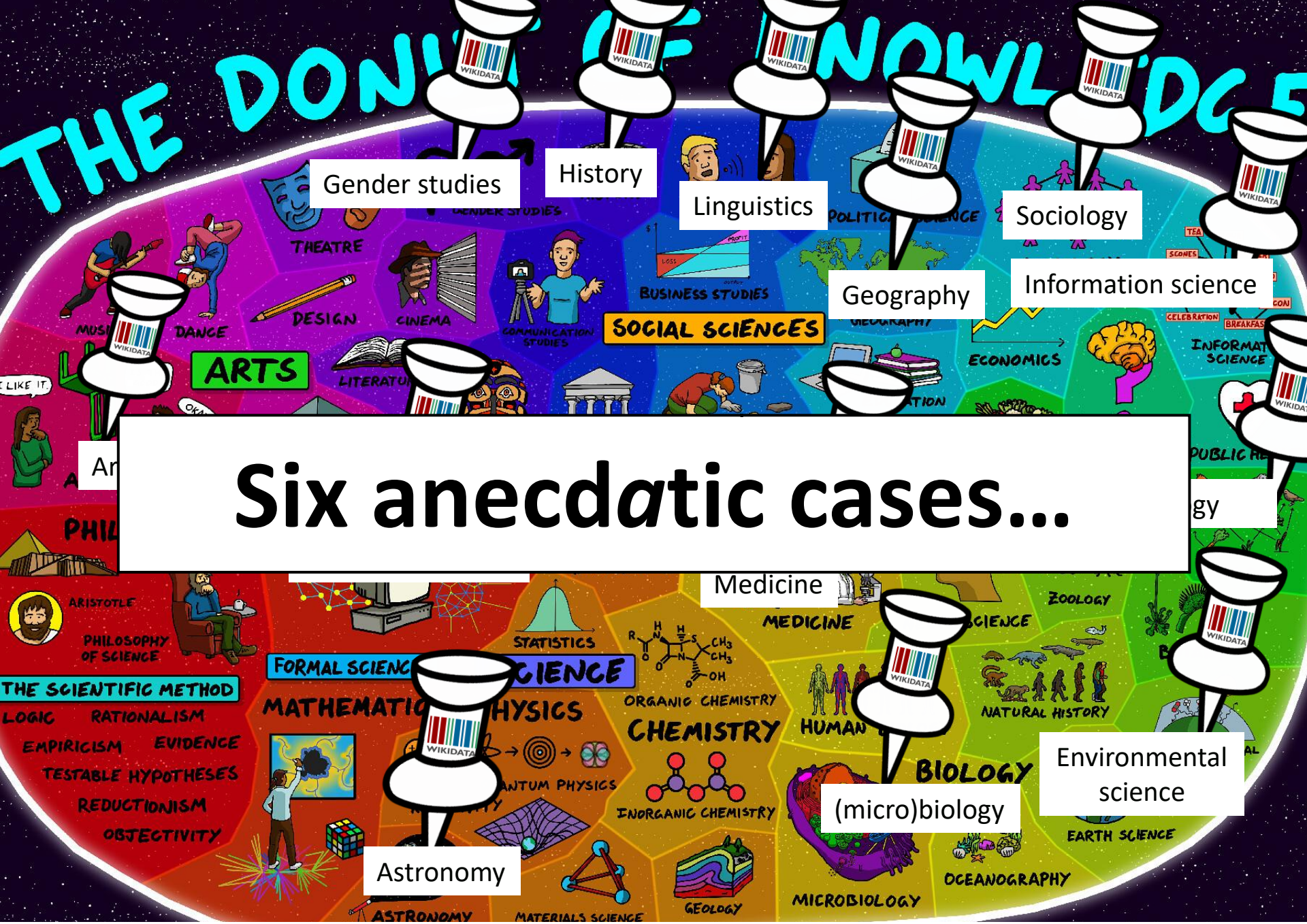
… Let’s invert it!



The Donut of Knowledge - Domain of Science - Dominic Walliman - https://www.flickr.com/photos/95869671@N08/29852456427/

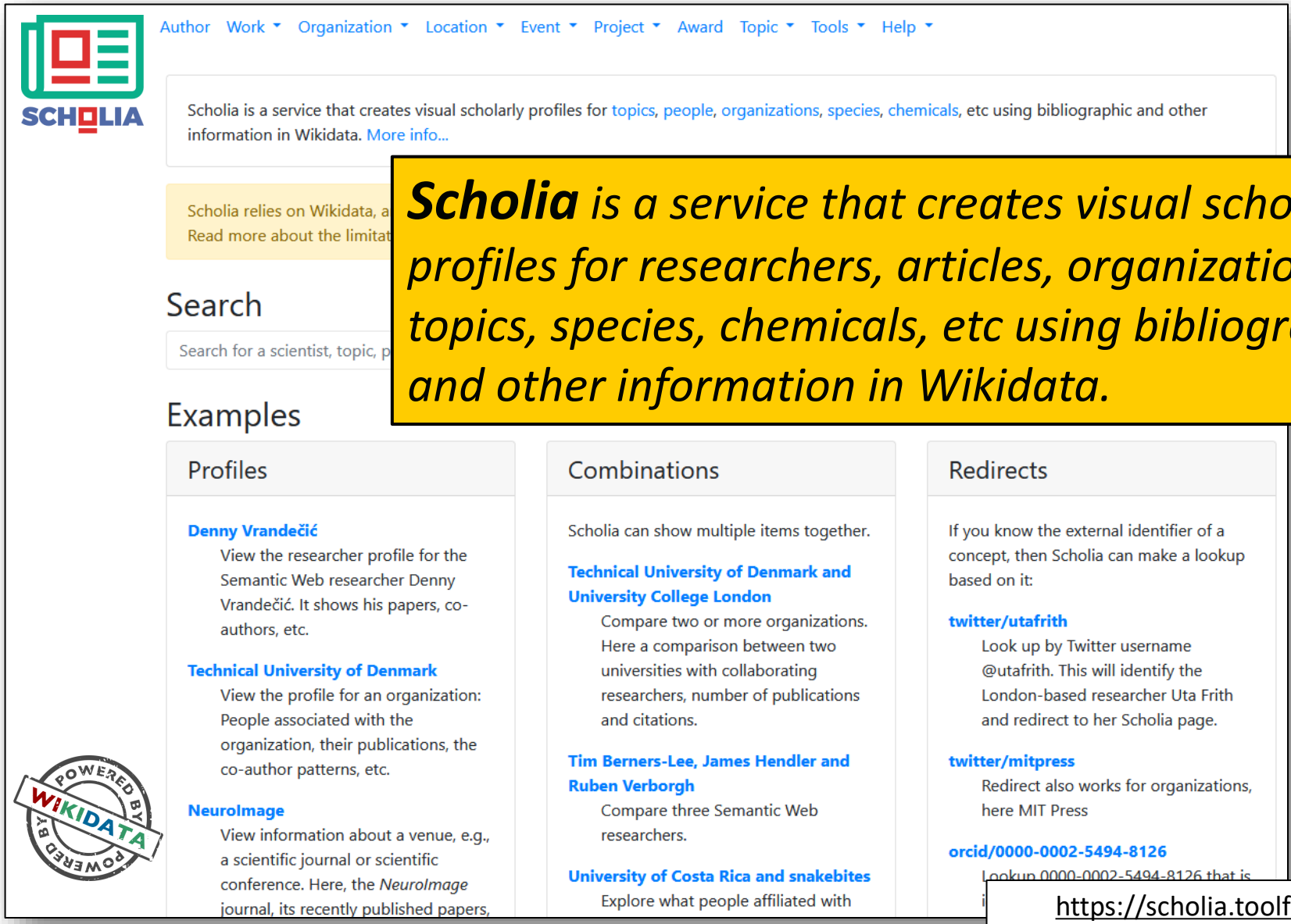


- The Donut of Knowledge - Domain of Science - Dominic Walliman - https://www.flickr.com/photos/95869671@N08/29852456427/
- Fields of study related to Wikidata: https://www.semanticscholar.org/search?&q=wikidata



- The Donut of Knowledge - Domain of Science - Dominic Walliman - https://www.flickr.com/photos/95869671@N08/29852456427/
- Fields of study related to Wikidata: https://www.semanticscholar.org/search?&q=wikidata

1. Scientometrics / scholarly communication



Scholia *is a service that creates visual scholarly profiles for researchers, articles, organizations, topics, species, chemicals, etc using bibliographic and other information in Wikidata.*

https://scholia.toolforge.org

Scholia - *Gerard van Breukelen*

SCHOLIA

author / Q40107826 Improve data

Gerard van Breukelen (Q40107826)

https://orcid.org/0000-0003-0949-0272 | https://cris.maastrichtuniversity.nl/portal/en/persons/gerard-van-breukelen(7c3cdd05-4a23-4c59-b9fb-e0a5a346f7bb).html

Table of Contents

- List of publications
  - Number of publications per year
  - Number of pages per year
- Topics
  - Topic scores
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  - Topics-works matrix
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- Venue statistics
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- Co-author graph
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- Other locations
- Timeline
- Academic tree
- Citation statistics
  - Most cited works
  - Citations by year
  - Citing authors
- Associated images
- Events

SCHOLIA

POWERED BY WIKIDATA

https://scholia.toolforge.org/author/Q40107826

List of publications

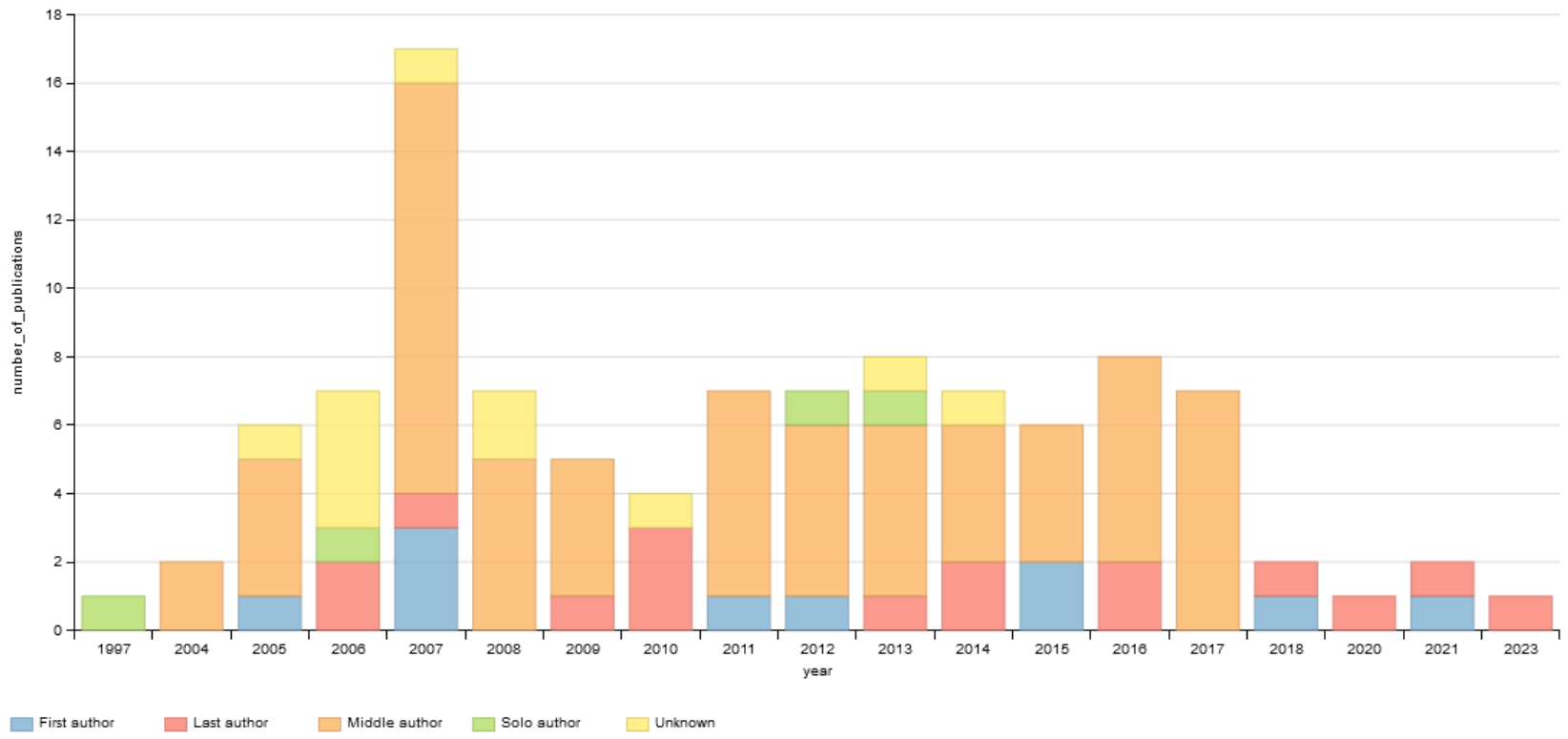
Reload

Show 10 entries

Search:

Date	Work	Type	Pages	Venue	Authors
2023-02-01	Sample size calculation and optimal design for regression-based norming of tests and questionnaires.	scholarly article		Psychological Methods	Francesco Innocenti, Math Candel, Gerard van Breukelen

Number of publications per year



Scholia - *Gerard van Breukelen* - https://scholia.toolforge.org/author/Q40107826

Research topics

Topics based on a weighting between fields of work, topics of authored works and topics of citing works.

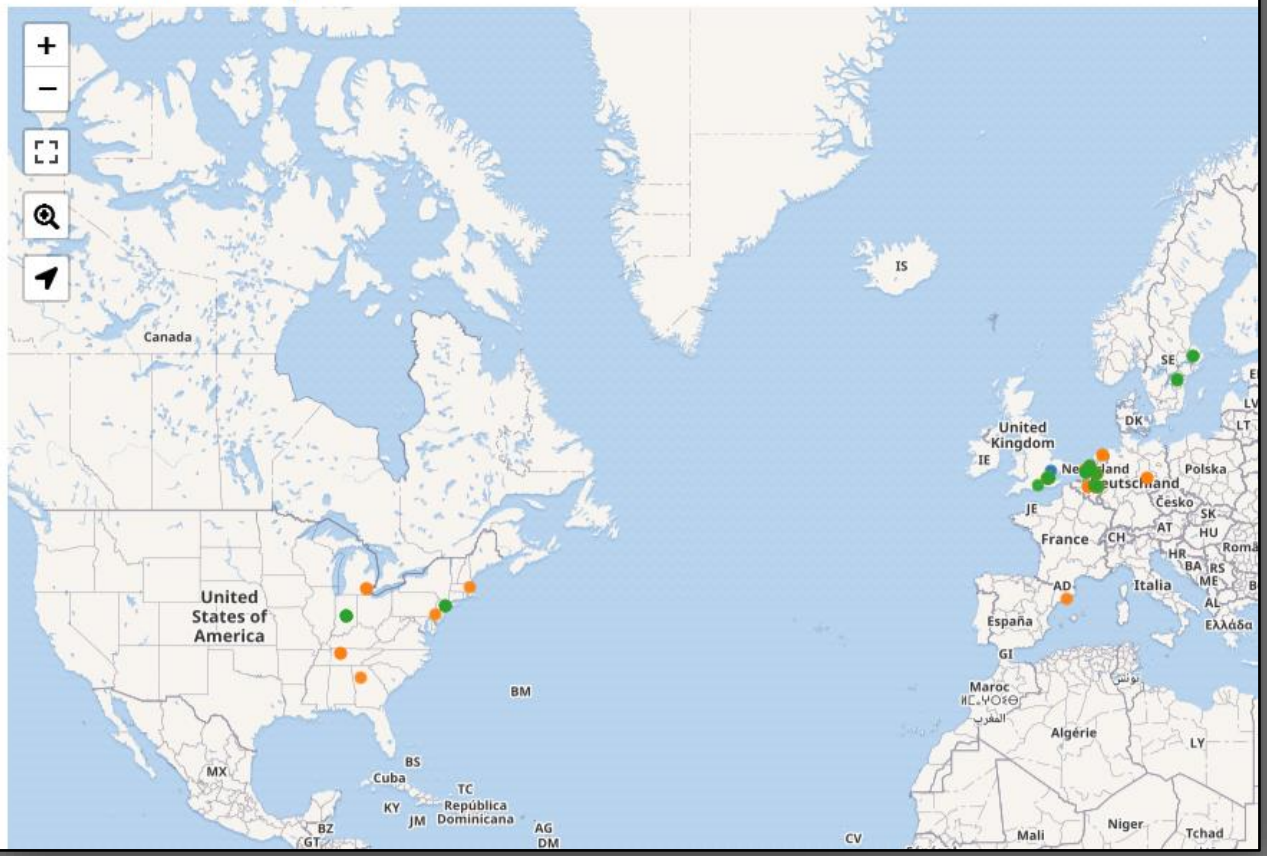
Journals

Scholia - *Gerard van Breukelen* - https://scholia.toolforge.org/author/Q40107826

Research topics

Co-author graph

Co-author map



Scholia - *Gerard van Breukelen* - https://scholia.toolforge.org/author/Q40107826

Research topics

Co-author graph

Citation statistics

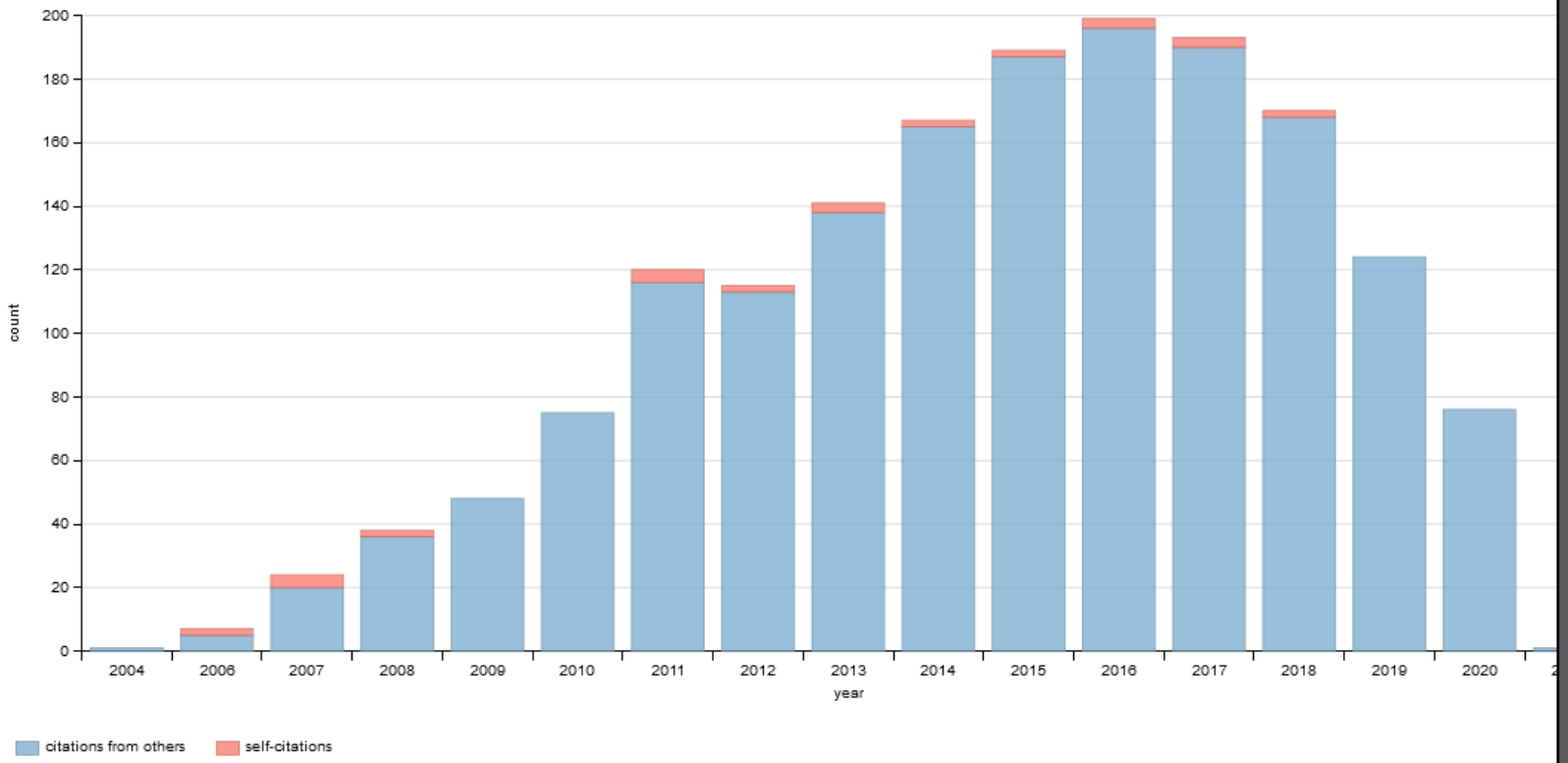
Most cited works

Works of

Show 10

Count
206
200
178
103
93
88

Citations by year



Scholia - *Gerard van Breukelen* - https://scholia.toolforge.org/author/Q40107826

Scholia – UM related examples

organization

article

journal

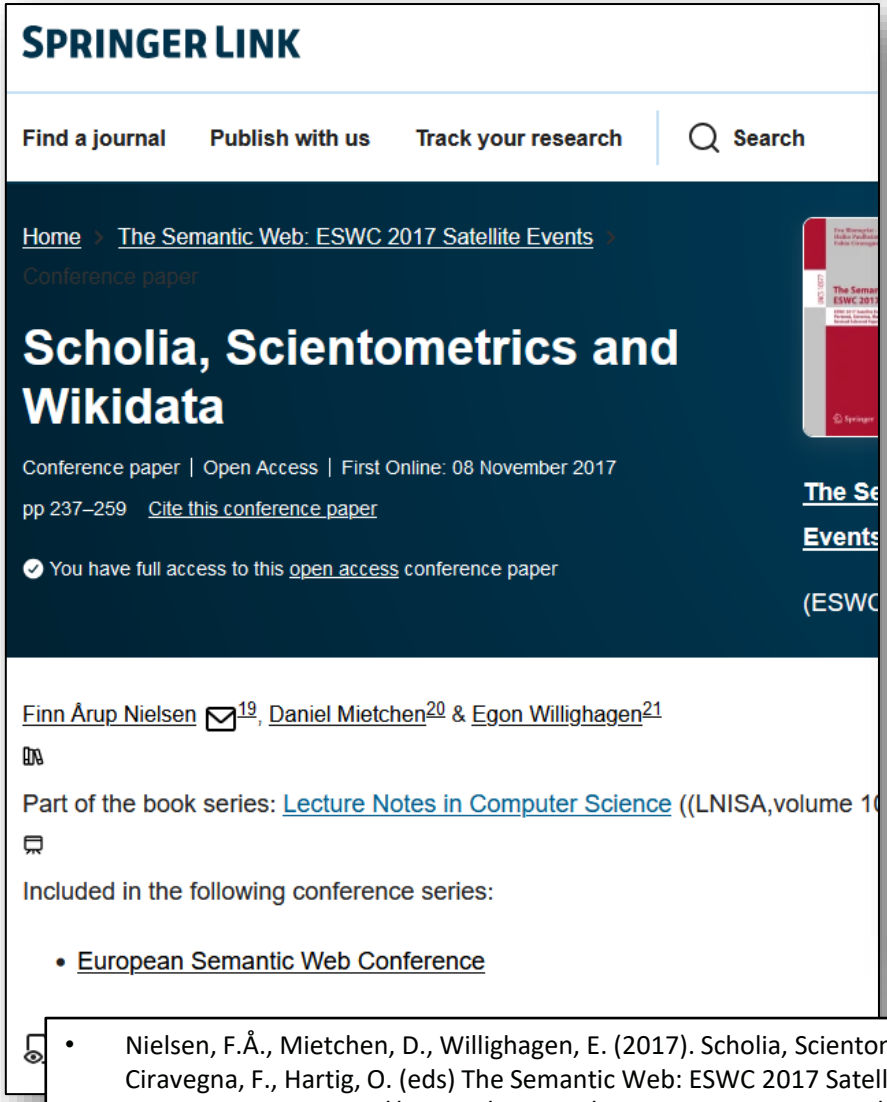
topic

taxon

chemical element

https://scholia.toolforge.org/work/Q27860791 - https://scholia.toolforge.org/organization/Q1137652 - https://scholia.toolforge.org/topic/Q12174 - https://scholia.toolforge.org/taxon/Q312131 - https://scholia.toolforge.org/venue/Q15760278 - https://scholia.toolforge.org/chemical-element/Q623

Scholia - further reading



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Conference paper

Scholia, Scientometrics and Wikidata

Conference paper | Open Access | First Online: 08 November 2017

pp 237–259 Cite this conference paper

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The Se

Events

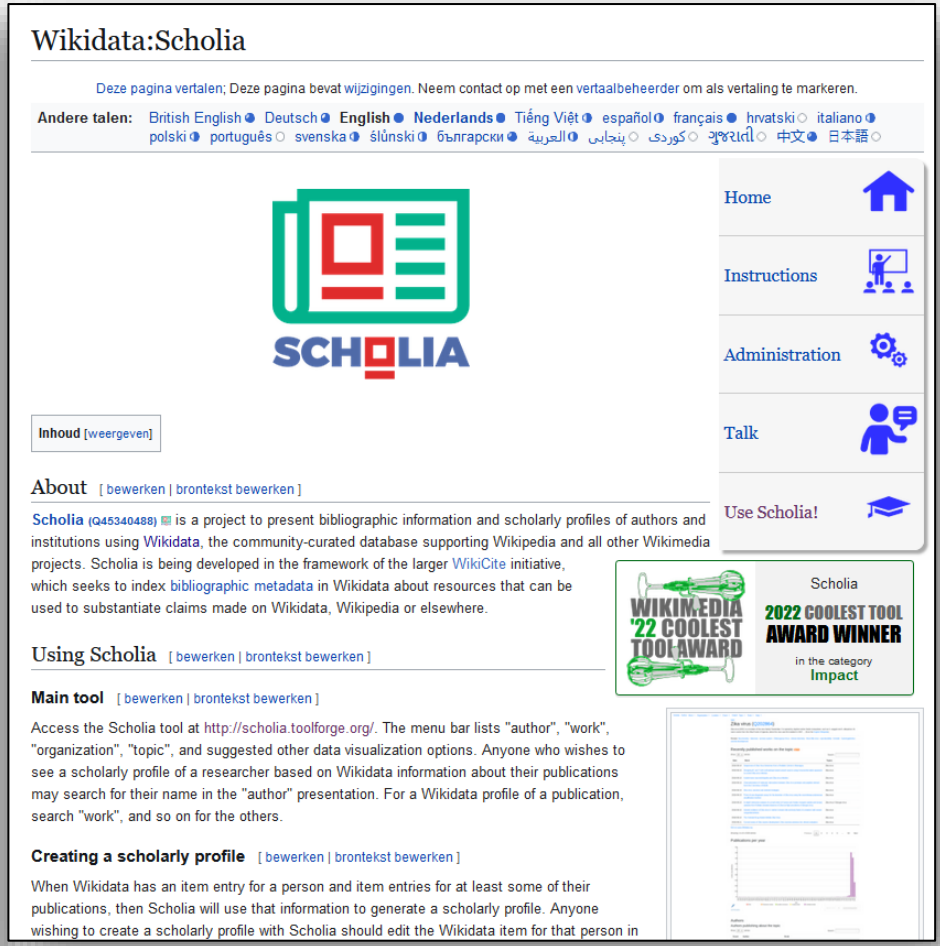
(ESWC

Finn Årup Nielsen [19], Daniel Mietchen[20] & Egon Willighagen[21]

Part of the book series: Lecture Notes in Computer Science ((LNISA,volume 1

Included in the following conference series:

- European Semantic Web Conference



Wikidata:Scholia

Deze pagina vertalen; Deze pagina bevat wijzigingen. Neem contact op met een vertaalbeheerder om als vertaling te markeren.

Andere talen: British English | Deutsch | English | Nederlands | Tiếng Việt | español | français | hrvatski | italiano | polski | português | svenska | ślůnski | български | العربية | پنجابی | کوردی | ગુજરાતી | 中文 | 日本語

SCHOLIA

Home | Instructions | Administration | Talk | Use Scholia!

Inhoud [weergeven]

About [bewerken | brontekst bewerken]

Scholia (Q45340488) is a project to present bibliographic information and scholarly profiles of authors and institutions using Wikidata, the community-curated database supporting Wikipedia and all other Wikimedia projects. Scholia is being developed in the framework of the larger WikiCite initiative, which seeks to index bibliographic metadata in Wikidata about resources that can be used to substantiate claims made on Wikidata, Wikipedia or elsewhere.

WIKIMEDIA '22 COOLEST TOOL AWARD

Scholia

2022 COOLEST TOOL AWARD WINNER

in the category Impact

Using Scholia [bewerken | brontekst bewerken]

Main tool [bewerken | brontekst bewerken]

Access the Scholia tool at http://scholia.toolforge.org/. The menu bar lists "author", "work", "organization", "topic", and suggested other data visualization options. Anyone who wishes to see a scholarly profile of a researcher based on Wikidata information about their publications may search for their name in the "author" presentation. For a Wikidata profile of a publication, search "work", and so on for the others.

Creating a scholarly profile [bewerken | brontekst bewerken]

When Wikidata has an item entry for a person and item entries for at least some of their publications, then Scholia will use that information to generate a scholarly profile. Anyone wishing to create a scholarly profile with Scholia should edit the Wikidata item for that person in

- Nielsen, F.Å., Mietchen, D., Willighagen, E. (2017). Scholia, Scientometrics and Wikidata. In: Blomqvist, E., Hose, K., Paulheim, H., Ławrynowicz, A., Ciravegna, F., Hartig, O. (eds) The Semantic Web: ESWC 2017 Satellite Events. ESWC 2017. Lecture Notes in Computer Science(), vol 10577. Springer, Cham. https://doi.org/10.1007/978-3-319-70407-4_36 // https://arxiv.org/abs/1703.04222 + https://arxiv.org/pdf/1703.04222
- https://www.wikidata.org/wiki/Wikidata:Scholia
- https://github.com/WDscholia

eLIFE
elifesciences.org

2. Life and biomedical sciences

SCIENCE FORUM

Wikidata as a knowledge graph for the life sciences

Abstract Wikidata is a community-maintained knowledge base that has been assembled from repositories in the fields of genomics, proteomics, genetic variants, pathways, chemical compounds, and diseases, and that adheres to the FAIR principles of findability, accessibility, interoperability and reusability. Here we describe the breadth and depth of the biomedical knowledge contained within Wikidata, and discuss the open-source tools we have built to add information to Wikidata and to synchronize it with source databases. We also demonstrate several use cases for Wikidata, including the crowdsourced curation of biomedical ontologies, phenotype-based diagnosis of disease, and drug repurposing.

ANDRA WAAGMEESTER†, GREGORY STUPP†, SEBASTIAN BURGSTALLER-MUEHLBACHER, BENJAMIN M GOOD, MALACHI GRIFFITH, OBI L GRIFFITH, KRISTINA HANSPERS, HENNING HERMJAKOB, TOBY S HUDSON, KEVIN HYBISKE, SARAH M KEATING, MAGNUS MANSKE, MICHAEL MAYERS, DANIEL MIETCHEN, ELVIRA MITRAKA, ALEXANDER R PICO, TIMOTHY PUTMAN, ANDERS RIUTTA, NURIA QUERALT-ROSINACH, LYNN M SCHRIML, THOMAS SHAFEE, DENISE SLENTER, RALF STEPHAN, KATHERINE THORNTON, GINGER TSUENG, ROGER TU, SABAH UL-HASAN, EGON WILLIGHAGEN, CHUNLEI WU AND ANDREW I SU*

Waagmeester et al. (2020). Wikidata as a knowledge graph for the life sciences. eLife. 9. http://dx.doi.org/10.7554/eLife.52614

Introduction

Integrating data and knowledge is a formidable

advance efforts by the open-data community to build a rich and heterogeneous network of scien-

Human coronaviruses

BMC Biology

Methodology article | Open access | Published: 22 January 2021

A protocol for adding knowledge to Wikidata: aligning resources on human coronaviruses

Andra Waagmeester orcid.org/0000-0001-9773-4008[1], Egon L. Willighagen orcid.org/0000-0001-7542-0286[2], Andrew I. Su orcid.org/0000-0002-9859-4104[3], Martina Kutmon

Waagmeester, A., Willighagen, E.L., Su, A.I. *et al.* A protocol for adding knowledge to Wikidata: aligning resources on human coronaviruses. *BMC Biol* 19, 12 (2021). https://doi.org/10.1186/s12915-020-00940-y

Abstract

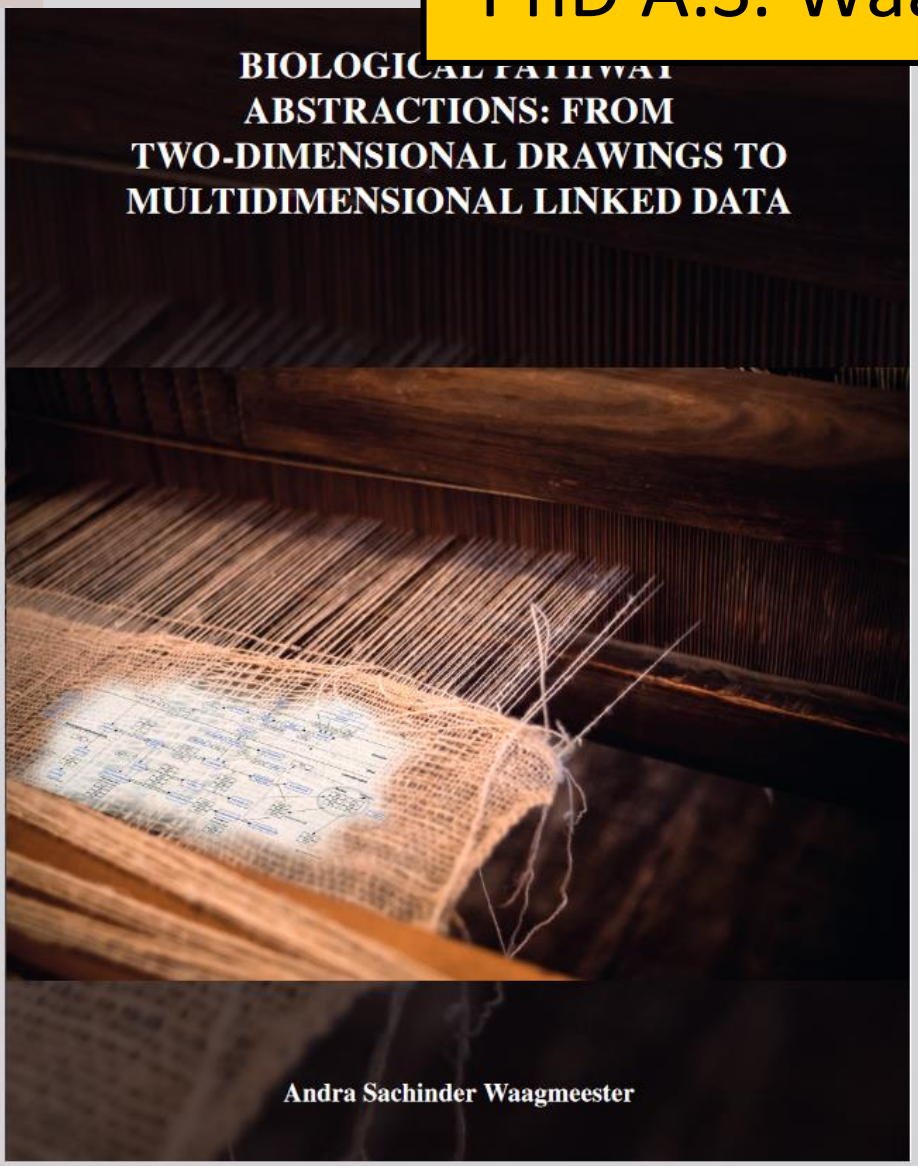
Background

Pandemics, even more than other medical problems, require swift integration of knowledge. When caused by a new virus, understanding the underlying biology may help finding solutions. In a setting where there are a large number of loosely related projects and initiatives, we need common ground, also known as a "commons." Wikidata, a public knowledge graph aligned with Wikipedia, is such a commons and uses unique identifiers to link knowledge in other knowledge bases. However, Wikidata may not always have the right schema for the urgent questions. In this paper, we address this problem by showing how a data schema required for the integration can be modeled with entity schemas represented by Shape Expressions.

Results

As a telling example, we describe the process of aligning resources on the genomes and proteomes of the SARS-CoV-2 virus and related viruses as well as how Shape Expressions can be defined for Wikidata to model the knowledge, helping others studying the SARS-CoV-2 pandemic. How this model can be used to make data between various resources interoperable is demonstrated by integrating data from NCBI (National Center for Biotechnology

PhD A.S. Waagmeester (MU)



Waagmeester, A. S. (2024). Biological pathway abstractions: from two-dimensional drawings to multidimensional linked data. [Doctoral Thesis, Maastricht University]. Maastricht University. https://doi.org/10.26481/dis.20240116aw

WIKIDATA

wikidata | Alles markeren | Hoofdlettergevoelig | Diakritische tekens gebruiken | Hele woorden | 7 van 415 overeenkomsten

Biological taxonomy literature

PeerJ

Wikidata and the bibliography of life

Roderic D. M. Page

Institute of Biodiversity, Animal Health and Comparative Medicine, College of Medical, Veterinary & Life Sciences, University of Glasgow, Glasgow, United Kingdom

ABSTRACT

Biological taxonomy rests on a long tail of publications spanning nearly three centuries. Not only is this literature vital to resolving disputes about taxonomy and nomenclature, for many species it represents a key source—indeed sometimes the only source—of information about that species. Unlike other disciplines such as biomedicine, the taxonomic community lacks a centralised, curated literature database (the "bibliography of life"). This article argues that Wikidata can be that database as it has flexible and sophisticated models of bibliographic information, and an active community of people and programs ("bots") adding, editing, and curating that information.

Subjects Biodiversity, Bioinformatics, Taxonomy
Keywords Wikidata, Taxonomy, Knowledge graph, Bibliometrics, Crowd sourcing

INTRODUCTION

Much of the primary data about the planet's biodiversity is contained in the taxonomic literature, a *corpus* that dates from the eighteenth century. Whereas other biological

- Page, R.D.M. 2022. Wikidata and the bibliography of life. PeerJ 10:e13712 https://doi.org/10.7717/peerj.13712
- https://vimeo.com/451179359

3. Astronomy

Cornell University

We gratefully acknow

arXiv > cs > arXiv:2312.08579

Search...

Help | Adv

Computer Science > Computation and Language

[Submitted on 14 Dec 2023 (v1), last revised 17 Dec 2023 (this version, v2)]

Identifying Planetary Names in Astronomy Papers: A Multi-Step Approach

Golnaz Shapurian, Michael J Kurtz, Alberto Accomazzi

The automatic identification of planetary feature names in astronomy publications presents numerous challenges. These features include craters, defined as roughly circular depressions resulting from impact or volcanic activity; dorsas, which are elongate raised structures or wrinkle ridges; and lacus, small irregular patches of dark, smooth material on the Moon, referred to as "lake" (Planetary Names Working Group, n.d.). Many feature names overlap with places or people's names that they are named after, for example, Syria, Tempe, Einstein, and Sagan, to name a few (U.S. Geological Survey, n.d.). Some feature names have been used in many contexts, for instance, Apollo, which can refer to mission, program, sample, astronaut, seismic, seismometers, core, era, data, collection, instrument, and station, in addition to the crater on the Moon. Some feature names can appear in the text as adjectives, like the lunar craters Black, Green, and White. Some feature names in other cor
some features share identical names across differer
on both the Moon and Mars. We present a multi-ste
speech (POS) tagging, named entity recognition (NE
inference with a locally installed large language mod
evaluated on a dataset of astronomy papers from th
0.97 in disambiguating planetary feature names.

Subjects: **Computation and Language (cs.CL)**; Instrumentatio
Cite as: arXiv:2312.08579 **[cs.CL]**
(or arXiv:2312.08579v2 **[cs.CL]** for this version)
https://doi.org/10.48550/arXiv.2312.08579

A custom Wikidata (Wikidata, n.d.) vocabulary is created by extracting planetary names from Wikidata, encompassing a wide range of astronomical concepts and phenomena. These terms include the names of celestial bodies such as stars (e.g., Sirius), planets (e.g., Jupiter), moons (e.g., Europa), asteroids (e.g., Ceres), comets (e.g., Halley's), and deep-sky objects (e.g., Crab Nebula, Andromeda Galaxy). Additionally, the list includes names of astronomical phenomena like variable stars, novas, supernovas, pulsars, bursts, and binary systems. The keywords also cover surface features on planetary bodies, such as mountains (e.g., Olympus Mons), valleys (e.g., Valles Marineris), and craters (e.g., Basin). Furthermore, the extracted terms include important scientific concepts related to planetary astronomy, such as surface formations, ring systems, planet types based on motion, orbits around planets, and positions relative to planets. Examples of such terms include quadrangle, ring, inferior/superior planet, retrograde motion, circumplanetary, synchronous orbits, and sub-Earth point.

Shapurian, Golnaz, Michael J. Kurtz, and Alberto Accomazzi. "Identifying Planetary Names in Astronomy Papers: A Multi-Step Approach." *arXiv preprint arXiv:2312.08579* (2023). https://doi.org/10.48550/arXiv.2312.08579

Observation Facility Vocabulary

Inter
Virtual
Observatory
Alliance

Using Wikidata for an Observation Facility Vocabulary

Version 1.0
IVOA Note 2023-11-15

Working Group
Semantics
This Version
https://www.ivoa.net/documents/ObsFacilityWikidat
Latest Version
https://www.ivoa.net/documents/ObsFacilityWikidat
Previous Versions
This is the first public release
Author(s)
Baptiste Cecconi
Laura Debisschop
Mireille Louys
Emmanuelle Perret
Markus Demleitner
Editor(s)
Baptiste Cecconi

Abstract

This document presents how Wikidata can be used for d

Status of this Document

5 A Name Resolver for Observation Facilities

Using the Wikidata knowledge base, it is possible to build a name resolver for observation facilities. A prototype is planned that would in regular intervals retrieve the relevant Wikidata content using queries similar to the one given in Appendix C. This query provides a JSON document that can be easily ingested into an elastic-search data base (or similar) to set a name resolver very similarly to the Quaero service of IMCCE.

6 A Vocabulary for Observation Facilities

An observation facility vocabulary could be built using Wikidata as an external knowledge base, similarly to the *IVOA-flavoured UAT* vocabulary[15].

The internal Wikidata identifier would be hidden to the user, which would use the record title as a human readable identifier (with the same transformation as for the UAT: lower-cased and hyphen-split). Using the same examples as in the previous section we would have:

- Q2513: hubble-space-telescope
- Q719617: venera-2
- Q466863: mount-wilson-observatory
- Q320638: solar-and-heliospheric-observatory
- Q49445: cosmic-background-explorer
- Q1031946: canada-france-hawaii-telescope
- Q3944788: event-horizon-telescope

https://ivoa.net/documents/Notes/ObsFacilityWikidata/20231115/NOTE-ObsFacilityWikidata-1.0-20231115.html

4. Language technology / AI / LLMs

Fine-tuned LLMs Know More, Hallucinate Less with Few-Shot Sequence-to-Sequence S

Silei Xu* Shicheng Liu* Theo C
Meng-Hsi Wu[1] Sina J. Sem
Computer Science Departmen
Stanford, C
{silei, shicheng, tculhane, pertseva
[1]Ailly.ai
jwu@ailly

Abstract

While large language models (LLMs) can answer many questions correctly, they can also hallucinate and give wrong answers. Wikidata, with its over 12 billion facts, can be used to ground LLMs to improve their factuality.

This paper presents WikiWebQuestions, a high-quality question answering benchmark for Wikidata. Ported over from WebQuestions for Freebase, it consists of real-world data with SPARQL annotation.

This paper presents a few-shot sequence-to-sequence semantic parser for Wikidata. We modify SPARQL to use the unique domain and property names instead of their IDs. We train the parser to use either the results from an entity linker or mentions in the query. We fine-tune LLaMA by adding the few-shot training data

Xu, Silei et al. "Fine-tuned LLMs Know More, Hallucinate Less with Few-Shot Sequence-to-Sequence Semantic Parsing over Wikidata." Conference on Empirical Methods in Natural Language Processing (2023). - https://arxiv.org/abs/2305.14202

Refining Wikidata Taxonomy using Large Language Models

Yiwen Peng[1 [0009−0007−7902−4097]], Thomas Bonald[1 [0000−0003−0468−0384]], and Mehwish Alam[1 [0000−0002−7867−6612]]

Télécom Paris, Institut Polytechnique de Paris, France
{first.last}@telecom-paris.fr

Abstract. Due to its collaborative nature, Wikidata is known to have a complex taxonomy, with recurrent issues like the ambiguity between instances and classes, the inaccuracy of some taxonomic paths, the presence of cycles, and the high level of redundancy across classes. Manual efforts to clean up this taxonomy are time-consuming and prone to errors or subjective decisions. We present WiKC, a new version of Wikidata taxonomy cleaned automatically using a combination of Large Language Models (LLMs) and graph mining techniques. Operations on the taxonomy, such as cutting links or merging classes, are performed with the help of zero-shot prompting on an open-source LLM. The quality of the refined taxonomy is evaluated from both intrinsic and extrinsic perspectives, on a task of entity typing for the latter, showing the practical interest of WiKC.

Keywords: Knowledge Graphs · Large Language Models · Graph Mining · Taxonomy Refinement.

Peng, Yiwen, Thomas Bonald and Mehwish Alam. "Refining Wikidata Taxonomy using Large Language Models." (2024). - https://arxiv.org/abs/2409.04056

4. Language technology / AI / LLMs

User-friendly Comparison of Similarity Algorithms on Wikidata

Filip Ilievski, Pedro Szekely, Gleb Satyukov, and Amandeep Singh

Information Sciences Institute, University of Southern California
{ilievski,pszekely,gleb,amandeep}@isi.edu

Abstract. While the similarity between two concept words has been evaluated and studied for decades, much less attention has been devoted to algorithms that can compute the similarity of nodes in very large knowledge graphs, like Wikidata. To facilitate investigations and head-to-head comparisons of similarity algorithms on Wikidata, we present a user-friendly interface that allows flexible computation of similarity between Qnodes in Wikidata. At present, the similarity interface supports four algorithms, based on: graph embeddings (TransE, ComplEx), text embeddings (BERT), and class-based similarity. We demonstrate the behavior of the algorithms on representative examples about semantically similar, related, and entirely unrelated entity pairs. To support anticipated applications that require efficient similarity computations, like entity linking and recommendation, we also provide a REST API that can compute most similar neighbors for any Qnode in Wikidata.

Keywords: Wikidata · Knowledge Graphs · Similarity · Embeddings

Ilievski, Filip, Pedro A. Szekely, Gleb Satyukov and Amandeep Singh. “User-friendly Comparison of Similarity Algorithms on Wikidata.” ArXiv abs/2108.05410 (2021): https://arxiv.org/abs/2108.05410

5. GLAM / cultural heritage

Beatrijs
(1374)

Atlas Ortelius
(1571)

Visboeck Adriaan Coenen
(1579)

Nederlandsche vogelen van Nozeman en Sepp (1770-1829)

KB collection highlights
Our national heritage

KB nationale bibliotheek

KB collection highlights

Our highlights as presented on KB websites are nice to view and read *(consume)…*

Taxidermied Monarch Butterfly in a bell jar, Jeremy Johnson, CC BY-SA 4.0, via Wikimedia Commons

..but rather unsuitable as building blocks for people to build stuff with *(create).*

Ethan Crying in Legos by Derek Marshall, via Flickr

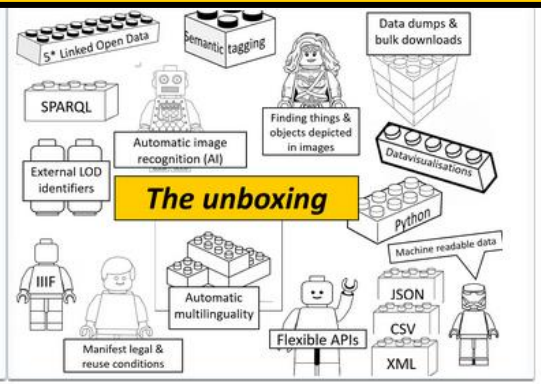
KB collection highlights as building blocks

Build stuff?

- *Online:* Maps, timelines, visualisations, apps, data stories, AI-stuff, tools, games, websites etc.
- *Offline:* prints, publications, art etc.

KB collection highlights as building blocks

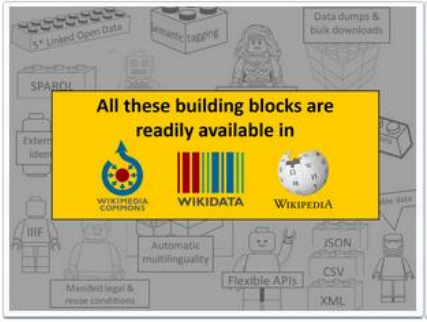
Wikifying KB's collection highlights

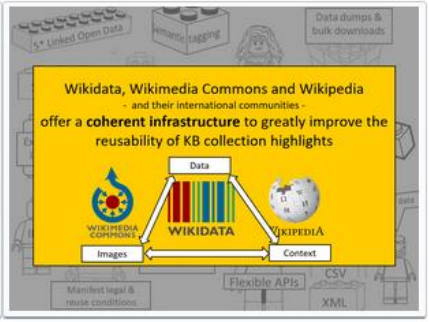


Wikifying KB's collection highlights

If you look closely at our LEGO® box, you'll notice that its 'powered by' Wikidata, Wikimedia Commons and Wikipedia. This is no coincidence, as many of the building blocks we were looking for were readily available in the Wikimedia infrastructure. Think for instance:

- an open platform for uploading, describing, curating and sharing 1000s of public domain images of KB's highlights (*Wikimedia Commons*)
- an open platform for creating, managing, linking and sharing multilingual 5* Linked Open Data under CC0-licensing (*Wikidata*)
- an open and extremely well-visited platform for providing context for our highlights (*Wikipedia*)
- with SPARQL endpoints (*Wikidata and Wikimedia Commons*)
- and REST APIs delivering machine readable outputs in CSV, JSON or RDF (*all three*)
- and data visualisation tools (*Wikidata and Wikimedia Commons*)
- with good integrations for Python, PHP and many other popular languages.



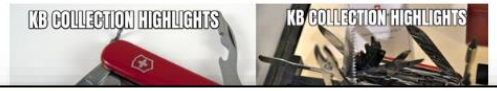


Source: 50 cool new things you can now do with KB's collection highlights - Part 1, Introduction

More context in these articles

50 cool new things you can now do with KB's collection highlights - Part 1, Introduction

In this series of 5 articles I show the added value of putting images and metadata of digitised collection highlights of the KB, national library of the Netherlands, into the Wikimedia infrastructure. B Wikipedia, dozens of new f can now do things with th



Collection highlig

Before I begin to unfold the tell a bit more about the co native websites of the KB.

The more than 70 highlight Ranging from the early Mid armorials, atlases, alba amic in high resolution and are p

50 cool new things you can now do with KB's collection highlights - Part 2, Overviews of all highlights

Latest update 16-06-2021

In this series of 5 articles I added value of putting ima metadata of digitised colle highlights of the KB, nation the Netherlands, into the W infrastructure. By putting o highlights into Wikidata, W Commons and Wikipedia, new functionalities have be now you can do things with

In Part 1 of this the WikiProject look at which ha

Overviews

Here we go:

1) A thumbnail page (on Wikime copyright, you'll

50 cool new things you can now do with KB's collection highlights - Part 3, Overviews per highlight

Latest update 16-06-2021

In this series of 5 articles I show the added value of putting images and metadata of digitised collection highlights of the KB, national library of the Netherlands, into the Wikimedia infrastructure. By putting our collection highlights into Wikidata, Wikimedia Commons and Wikipedia, dozens of new functionalities have been created. As a result of what you can do things with

In the previous part of this highlights combined have b overviews & tables and an

50 cool new things you can now do with KB's collection highlights - Part 4, Images

Latest update 16-06-2021

In this series of 5 articles I show the added value of putting images and metadata of digitised collection highlights of the KB, national library of the Netherlands, into the Wikimedia infrastructure. By putting our collection highlights into Wikidata, Wikimedia

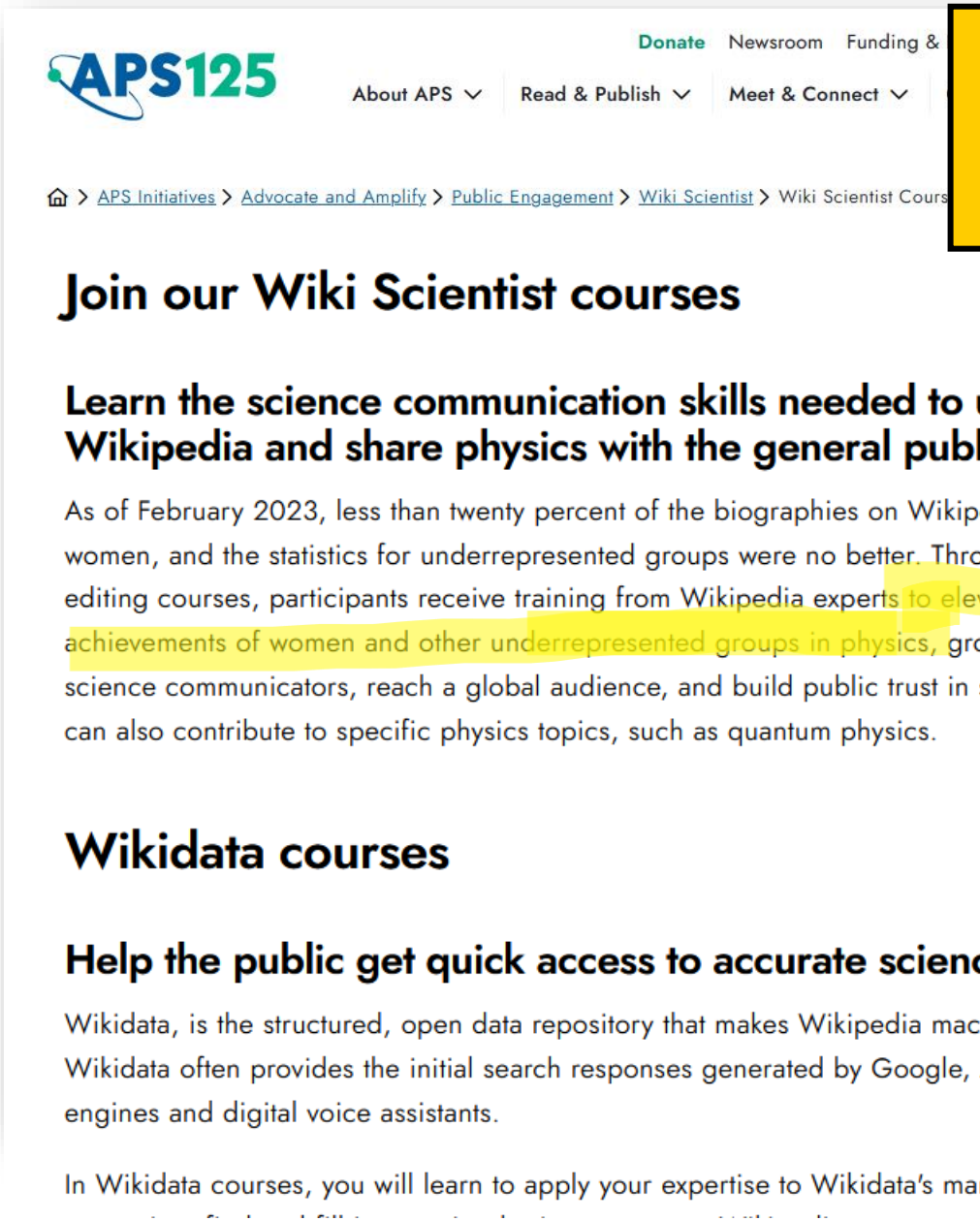
50 cool new things you can now do with KB's collection highlights - Part 5, Reuse

Latest update 16-06-2021

In this series of 5 articles I show the added value of putting images and metadata of digitised collection highlights of the KB, national library of the Netherlands, into the Wikimedia infrastructure. By putting our collection

https://kbnlwikimedia.github.io/KBCollectionHighlights/stories/Cool%20new%20things%20you%20can%20now%20do%20with%20the%20KB's%20collection%20highlights/

6. Representation of (female) scientists



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APS Initiatives > Advocate and Amplify > Public Engagement > Wiki Scientist > Wiki Scientist Cours

Join our Wiki Scientist courses

Learn the science communication skills needed to update Wikipedia and share physics with the general public

As of February 2023, less than twenty percent of the biographies on Wikipedia were about women, and the statistics for underrepresented groups were no better. Through Wikipedia editing courses, participants receive training from Wikipedia experts to elevate the achievements of women and other underrepresented groups in physics, grow as effective science communicators, reach a global audience, and build public trust in science. Participants can also contribute to specific physics topics, such as quantum physics.

Wikidata courses

Help the public get quick access to accurate science information

Wikidata, is the structured, open data repository that makes Wikipedia machine-readable. Wikidata often provides the initial search responses generated by Google, Alexa, other search engines and digital voice assistants.

In Wikidata courses, you will learn to apply your expertise to Wikidata's manual curation as well

https://www.aps.org/initiatives/advocate-amplify/public-engagement/wiki-scientist/courses

6. Representation of (female) scientists

Smithsonian Institution Archives

Collections What We Do Smithsonian History

ABOUT BLOG PRESS EVENTS

Please read Smithsonian Libraries and Archives' Statement on Harmful Content

Improve #WomenInSTEM Representation with Wikidata!

This journey started with our history of science and the media research fellow, Marcel LaFollette, who created basic records for female scientists she uncovered in the Archives' Science Service collection, including many who worked at the Smithsonian. We then created a campaign to amplify the records, and create a secondary source for Wikipedia with our "Women in Science Wednesday" campaign. Then we held several Wikipedia edit-a-thons with our local Wikimedia DC chapter to turn those resources into articles. Tomorrow we are kicking off a mini-campaign to take the hard work that wikipedia volunteers have done and turn it into better structured data for Wikidata!

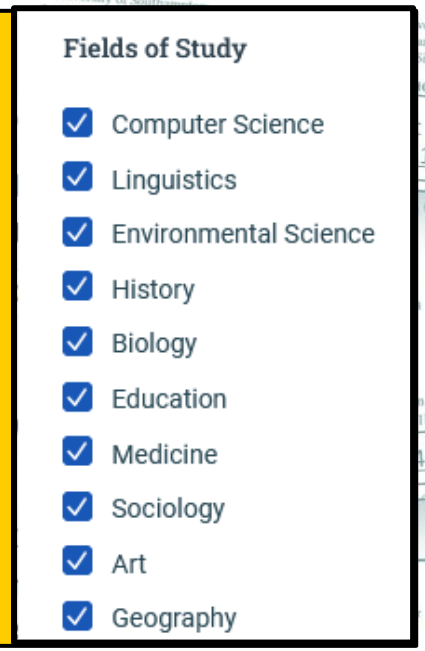
Botanist and suffragette, **Mary Agnes Chase**, led the Smithsonian's Herbarium, was the eminent expert on grasses, and at the age of 93, published a 3-volume index of U.S. grasses with over 80,000 species.
#Groundbreaker

(LEFT) Infobox for Mary Agnes Chase article on Wikipedia. (RIGHT) Google search results for Mary Agnes Chase showing the right side of a user's browser.

https://siarchives.si.edu/blog/improve-womeninstem-representation-wikidata

Wikidata & science: further reading

- Wikidata:Bibliography of Wikidata
- Google Scholar
- Semantic Scholar - by field of study
- Arxiv
  - Articles mentioning 'Wikidata'
  - Articles with 'Wikidata' in the title
- Open Research Knowledge Graph (ORKG)




WIKIDATA
Nearly finished…..

Further Wikidata guidance

Wikidata general overview

General overview of the Wikidata universe for newcomers to get more familiar and self-reliant in this (sometimes) confusing ecosystem. Collected and curated by KB, national library of the Netherlands.

This page is a textual summary of

1. the (Dutch language) course *Guide to Wikidata* for employeees of KB, national library of the Netherlands on 6th June 2023. The (rather long) full slidedeck for this course is available on Wikimedia Commons and Zenodo as PDFs.
2. In October 2024 the section on Wikidata for research, science and cultural heritage was expanded, based on the content from the corresponding section in the presentation *Wikidata Workshop - Theoretical part - Maastricht*

Contact

This page is maintained by Olaf Janssen, Wikimedia coordinator of KB. See his Wik kb.nl for contact details.

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- https://zenodo.org/record/8006441
- https://commons.wikimedia.org/wiki/File:Wegwijzer_in_Wikidata,_Introductiecurus_Wikidata_-_Koninklijke_Bibliotheek,_6_juni_2023.pdf

Questions?
Suggestions?

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KB nationale bibliotheek

WIKIDATA

Maastricht University

https://zenodo.org/records/13837957