An introduction to Wikidata for sharing and visualising cultural heritage resources

DSDH-17

Simon Cobb

Wikidata Visiting Scholar at the National Library of Wales

Overview

- Introduction to Wikidata
- Wikimedia Commons
- Identifier properties
- Wikipedia integration
- Data visualisations

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What is Wikidata?

- Collaboratively-created, multilingual knowledge base
- Structured data – machine readable
- Free – released under the public domain waiver (CC0)
- Linked to other database – provides authority control
- Secondary database – sources and references

A few statistics

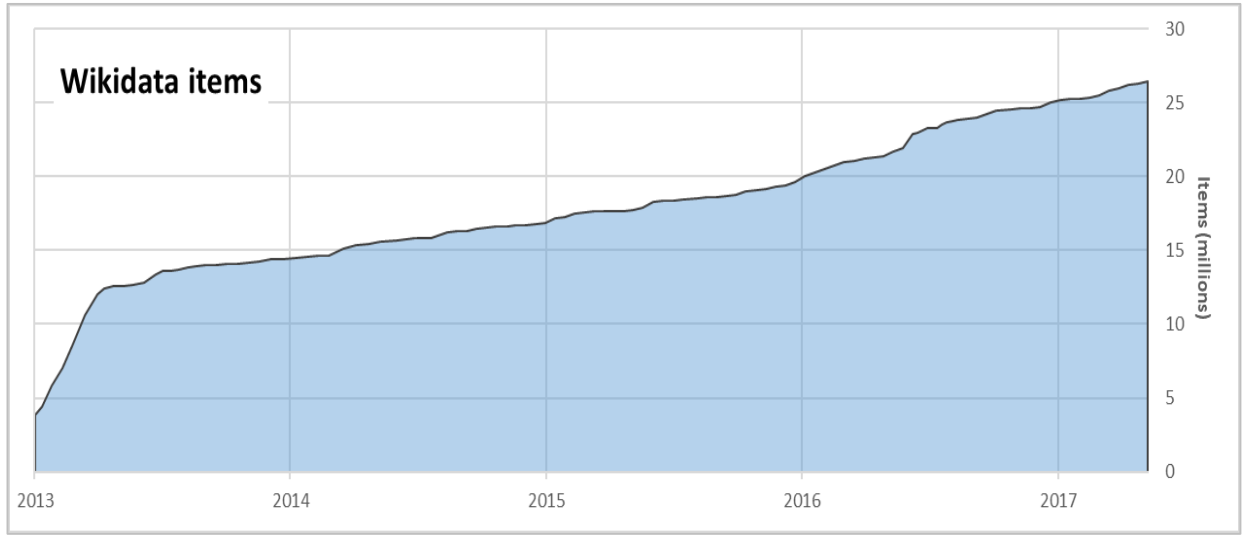
- 26,418,299 items

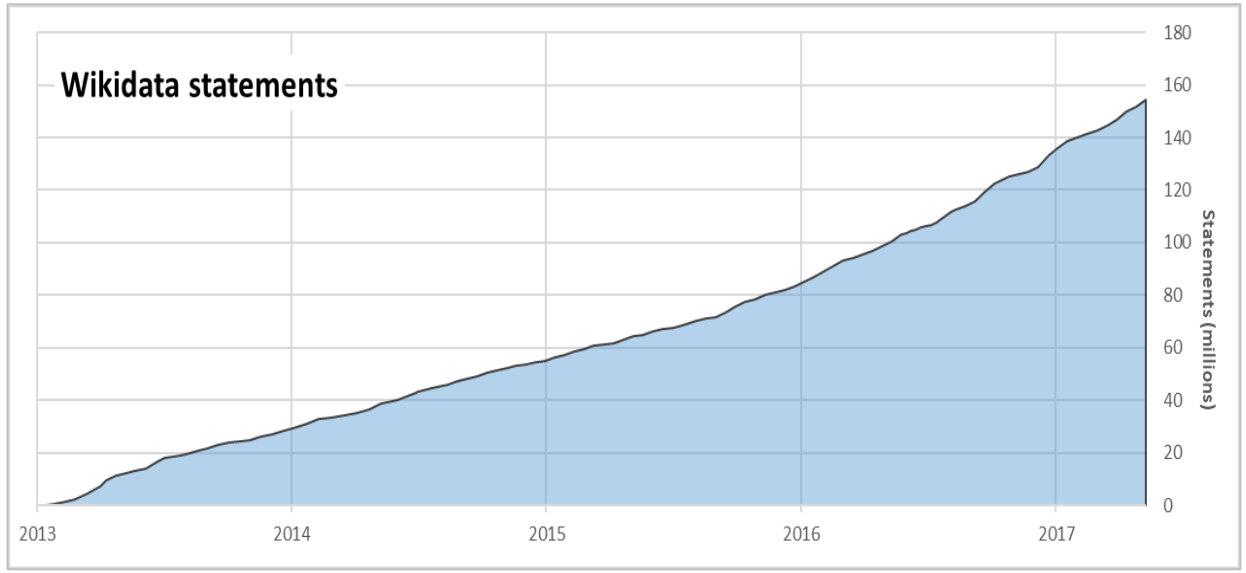
  Described by

- 151,714,968 statements

  Including

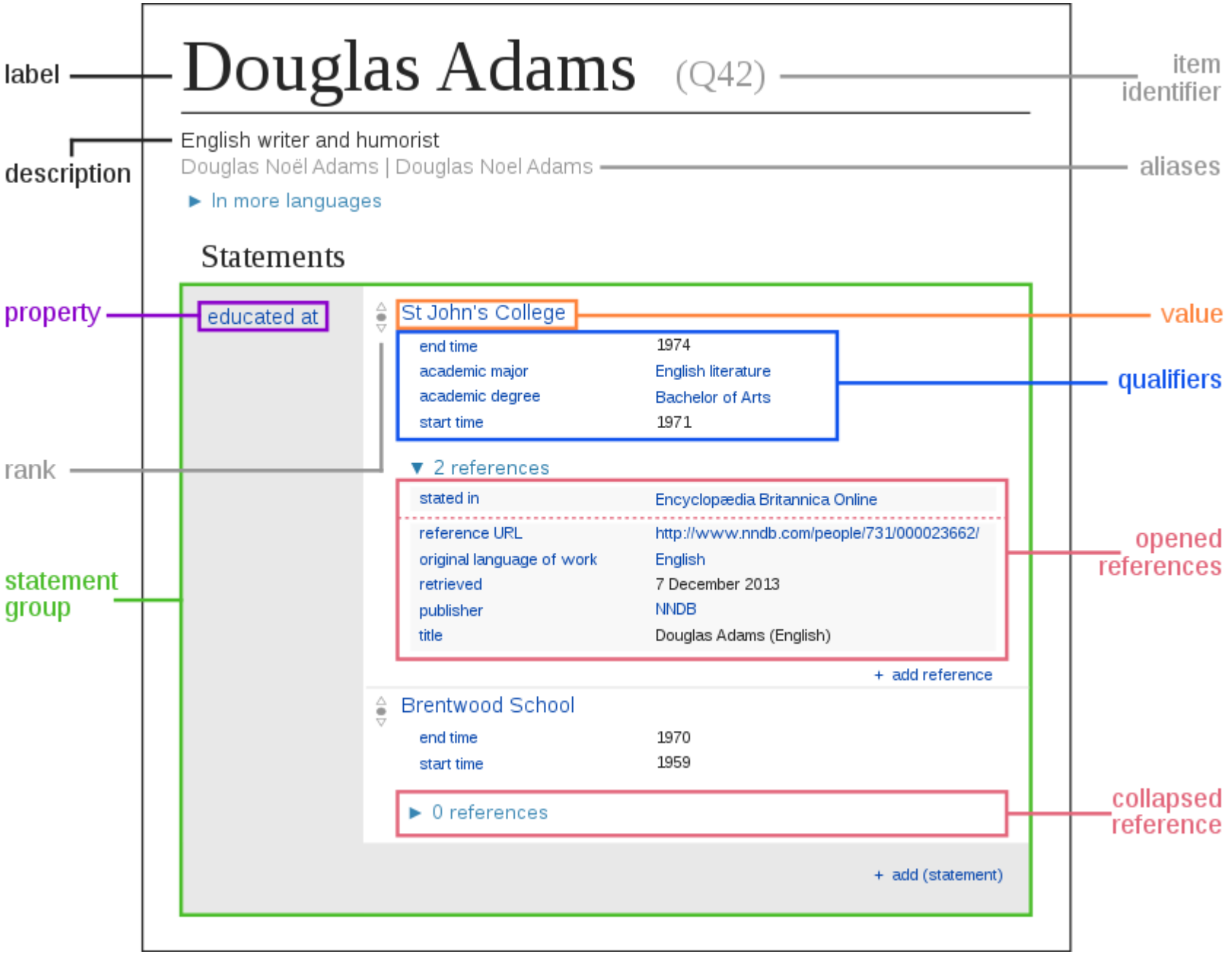
- 87,833,765 item link statements
- 6,254,956 time statements
- 3,347,070 geographic coordinate statements





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

https://tools.wmflabs.org/wikidata-todo/stats.php



https://www.wikidata.org/wiki/Q42

Linked data

San Francisco is linked to:

- Items
- Geolocation
- Number

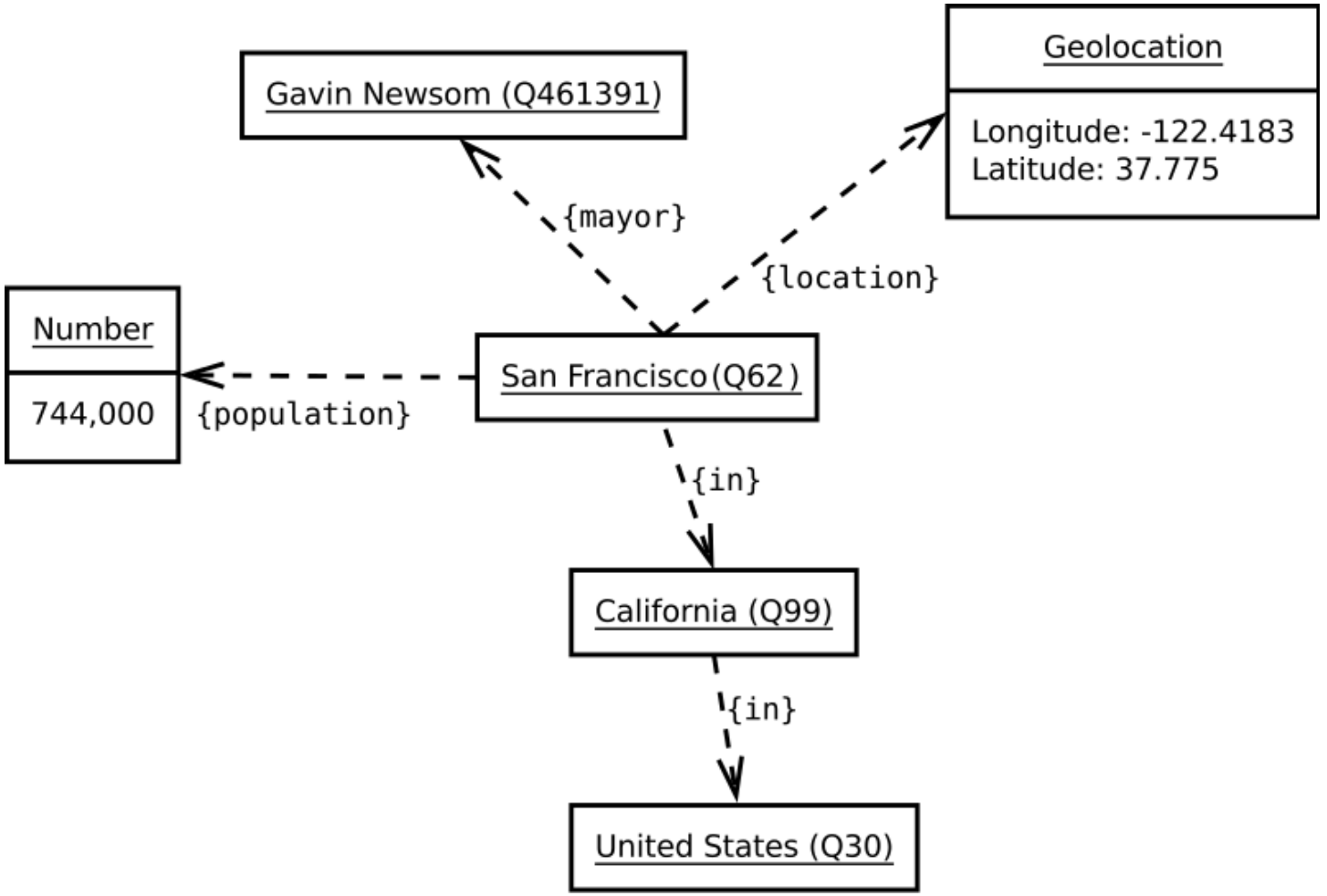
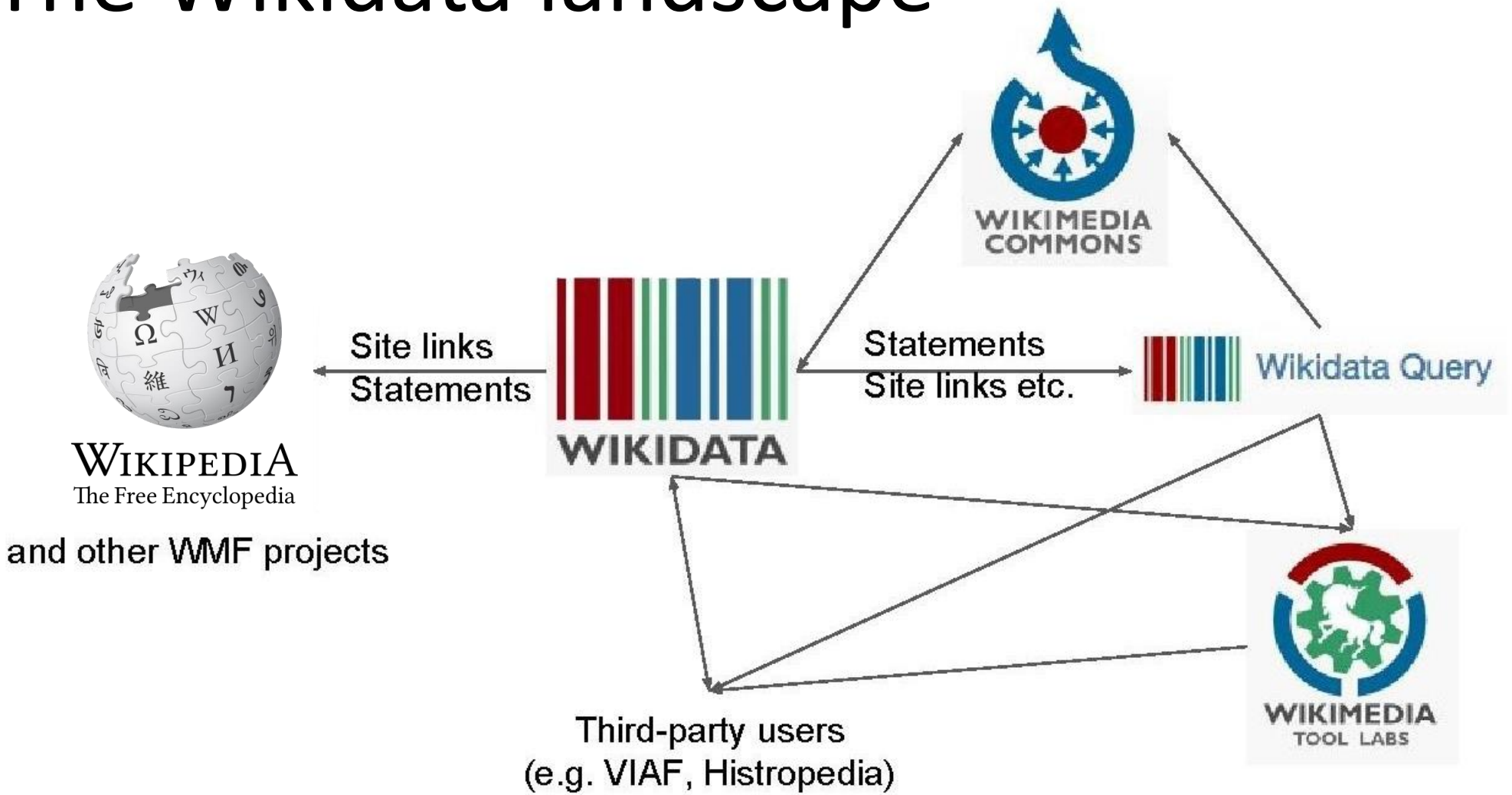


Image by Jeblad (Own work) [CC BY-SA 3.0 (http://creativecommons.org/licenses/by-sa/3.0)], via Wikimedia Commons (https://commons.wikimedia.org/wiki/File%3ALinked_Data_-_San_Francisco.svg).

The Wikidata landscape



Adapted from image by Magnus Manske (Own work) [CC BY-SA 4.0 (http://creativecommons.org/licenses/by-sa/4.0)], via Wikimedia Commons (https://commons.wikimedia.org/wiki/File:MediaWiki_talk,_Bern,_2017-02-04,_Magnus_Manske.pdf)

Wikimedia Commons

- Media file repository
- Images, sound and video clips
- Public domain and freely-licensed content
- 40 million+ files

Commons category page view stats

Category	Months	Total views
Library of Congress	80	20,418,257,016
German Federal Archive	82	9,223,304,361
British Museum	82	3,277,464,429
Imperial War Museum	34	3,089,142,437
British Library	63	1,517,505,991
National Library of Wales	35	274,839,662

commons.wikimedia.org

https://tools.wmflabs.org/glamtools/baglama2/

Images in Wikidata

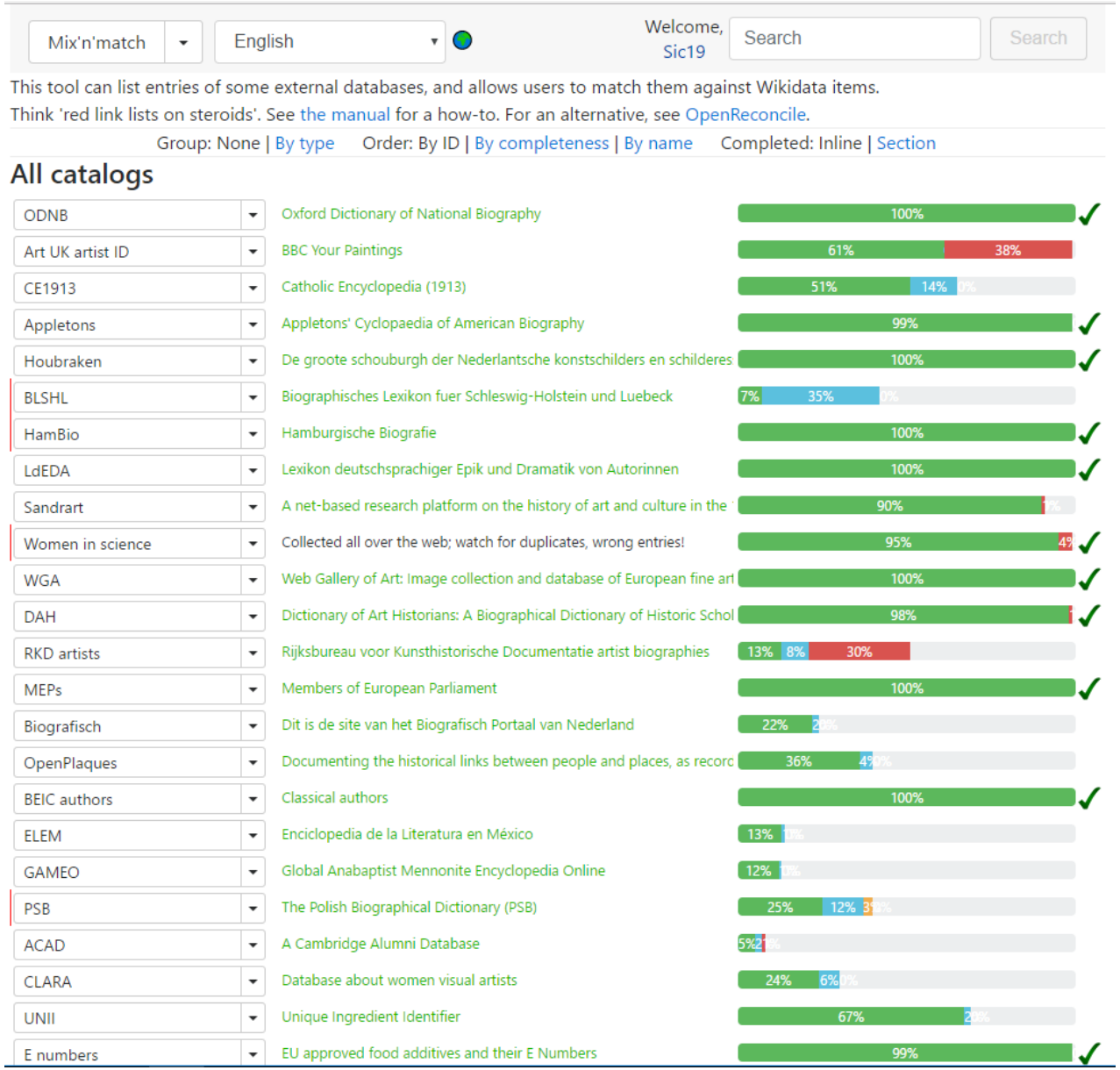
Image (P18)

- flag image (P41)
- coat of arms image (P94)
- signature image (P109)
- logo image (P154)
- seal image (P158)
- locator map image (P242)
- scanned file on Wikimedia Commons (P996)
- image of grave (P1442)
- monogram (P1543)
- detail map (P1621)
- place name sign (P1766)
- commemorative plaque image (P1801)
- service ribbon image (P2425)
- sectional view (P2713)
- collage image (P2716)
- sheet music (P3030)
- plan image (P3311)
- film poster (P3383)
- nighttime view (P3451)
- shield image (P4004)

https://www.wikidata.org/wiki/Q2326923

Mix’n’Match

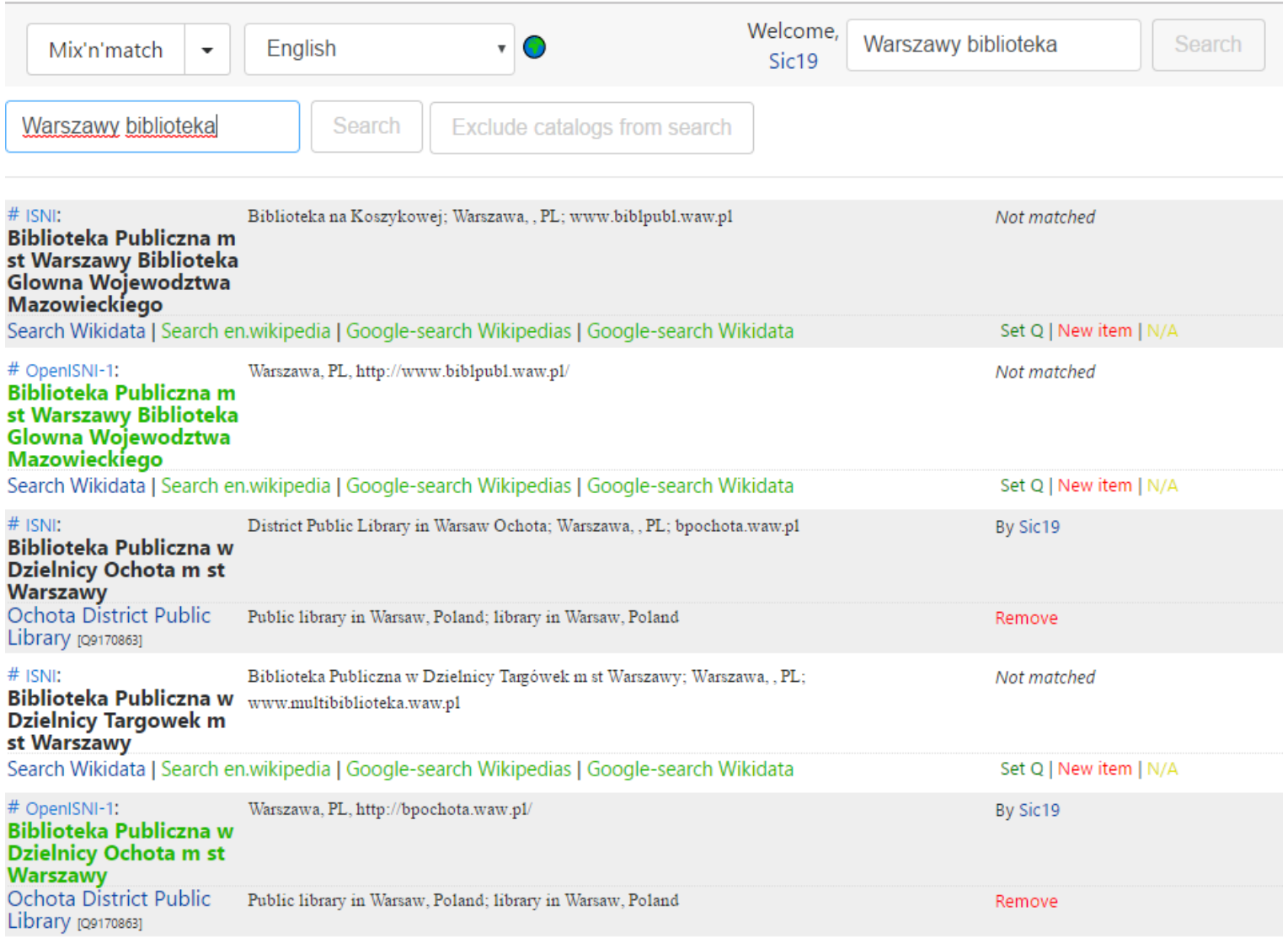
- 480 external catalogues
- Match identifiers with Wikidata items
- Identifiers are added to item pages – creating link to external information
- Semi and fully automatic matching
- Manual matching - browsing and searching
- Download matched records



https://tools.wmflabs.org/mix-n-match/#/

Warsaw Public Library

- Matched with ISNI
- ISNI (P213) identifier property added to Wikidata
- Link from Wikidata to ISNI is created
- ISNI is linked to authority files, including VIAF
- Authority files can be added to Wikidata
- Wikidata will appear in VIAF



https://www.wikidata.org/wiki/Q2326923

VIAF (Virtual International Authority File)

- Aggregates authority control data from 45 institutions
- Includes personal and organisational names, works and their translations
- Creates a cluster record for each unique name with links to national authority records
- Links in Wikidata (and thus Wikipedia)
- One of most frequently accessed sources consumed by linked data services
- Over 1 million Wikidata items have a VIAF Identifier

WIKIDATA

VIAF identifier	34457918
	3 references

WIKIPEDIA
The Free Encyclopedia

Authority control	WorldCat Identities · VIAF: 34457918 · LCCN: n79081313 · ISNI: 0000 0001 2127 2257 · GND: 118548018 · SELIBR: 205911 · SUDOC: 026917688 · BNF: cb119071433 (data)

维基百科
自由的百科全书

规范控制	WorldCat标识符 • VIAF: 34457918 • LCCN: n79081313 • ISNI: 0000 0001 2127 2257 • GND: 118548018 • SELIBR: 205911 • SUDOC: 026917688 • BNF: cb119071433 (数据) •

Adapted from a presentation by Eric Childress (2015) [CC BY (http://creativecommons.org/licenses/by/4.0)], via OCLC (http://www.oclc.org/content/dam/research/presentations/childress/oclcresearch-viaf-2015.pptx

WIKIPEDIA
The Free Encyclopedia

Main page
Contents
Featured content
Current events
Random article
Donate to Wikipedia
Wikipedia store

Interaction
Help
About Wikipedia
Community portal
Recent changes
Contact page

Tools
What links here
Related changes
Upload file
Special pages
Permanent link
Page information
Wikidata item
Cite this page
JS Wiki Browser
JS Wiki Browser

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In other projects
Wikimedia Commons

National Library of Poland

From Wikipedia, the free encyclopedia

Coordinates: 52°12'52"N 21°00'16"E

The **National Library of Poland** (Polish: *Biblioteka Narodowa*) is the central Polish library, subject directly to the Ministry of Culture and National Heritage of the Republic of Poland.

The library collects books, journals, electronic and audiovisual publications published in the territory of Poland, as well as Polonica published abroad. It is the most important humanities research library, the main archive of Polish writing and the state centre of bibliographic information about books. It also plays a significant role as a research facility and is an important methodological center for other Polish libraries.

The National Library receives a copy of every book published in Poland as legal deposit. The Jagiellonian Library is the only other library in Poland to have a national library status.

Biblioteka Narodowa (National Library of Poland)

Type National library

Established 1928 (89 years ago)
(Imperial Public Library was

Contents [hide]

1 Organizational structure
2 History
3 Collections
4 See also
4.1 Notes
4.2 References
5 External links

Organizational structure [edi

There are three general sections:

- The Library
- The Bibliographic Institute of the Natio
- The Book and Readership Institute

History [edit | edit source]

The National Library's history has origins i
Sobieski which were obtained from his gra

National Library of Poland (Q856423)

national library *English* edit

In more languages Configure

Language	Label	Description	Also known as
British English	National Library of Poland	No description defined	
English	National Library of Poland	national library	Biblioteka Narodowa National Library
Welsh	No label defined	No description defined	
French	Bibliothèque nationale de Pologne	No description defined	BN Biblioteka Narodowa

All entered languages

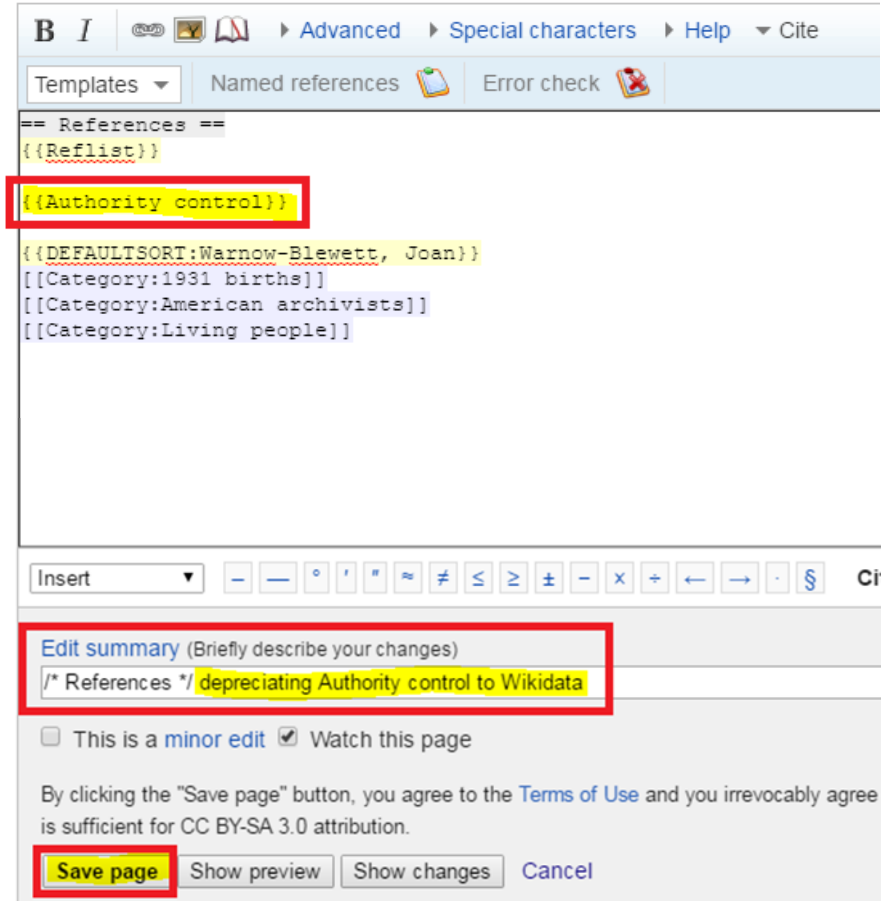
Statements

instance of	national library	edit
	1 reference	
		+ add

Wikipedia (20 entries) edit

be	Нацыянальная бібліятэка Польшчы Nacyyanal'naya bibliyatèka Pol'shchy	[ref]
ca	Biblioteca Nacional de Polònia Biblioteca Nacional de Polonia	[ref]
csb	Nôrodnô Bibloteka (Warszawa) Norodno Bibloteka (Warszawa)	[ref]
de	Biblioteka Narodowa	[ref]
en	National Library of Poland	[ref]
eo	Nacia Biblioteko de Pollando	[ref]
es	Biblioteca Nacional de Polonia	[ref]
fa	کتابخانه ملی لهستان ktabkhanh mly lhstan	[ref]
fi	Puolan kansalliskirjasto	[ref]
fr	Bibliothèque nationale (Pologne) Bibliotheque nationale (Pologne)	[ref]
hy	Լեհաստանի ազգային գրադարան Lehast'ani azgajin gradaran	[ref]
ka	პოლონეთის ეროვნული ბიბლიოთეკა polonethis erovnuli bibliotheka	[ref]
ko	국립도서관 (폴란드) guk립do서관 (폴란드)	[ref]
nl	Nationale Bibliotheek van Polen	[ref]
pl	Biblioteka Narodowa (Warszawa)	[ref]
ru	Национальная библиотека Польши	[ref]

{{Authority control}}



Add the following authority files from Wikidata:

- VIAF ID (P214)
- LCAuth identifier (P244)
- ISNI (P213)
- ORCID iD (P496)
- GND ID (P227)
- SELIBR (P906)
- SUDOC authorities (P269)
- BnF ID (P268)
- ULAN ID (P245)
- Biografisch Portaal number (P651)
- MusicBrainz artist ID (P434)
- NLA (Australia) ID (P409)
- NDL Auth ID (P349)
- BIBSYS ID (P1015)
- ResearcherID (P1053)
- RKDartists ID (P650)

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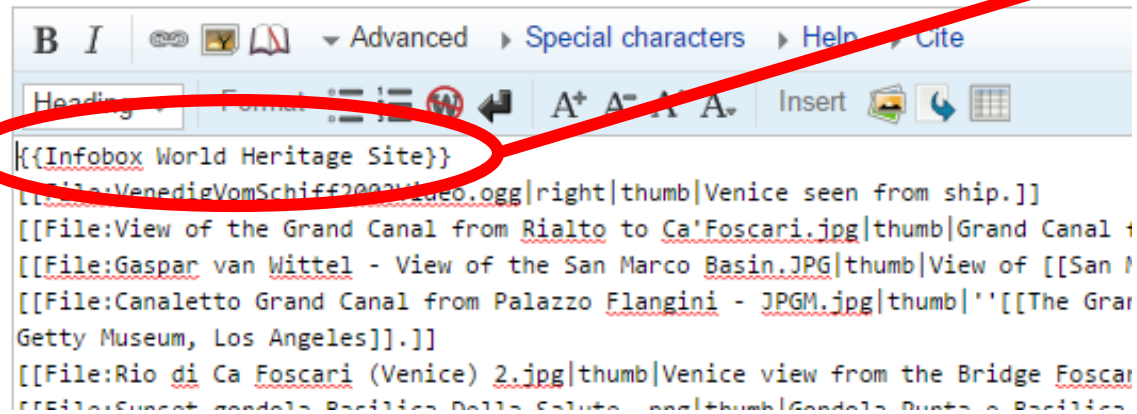
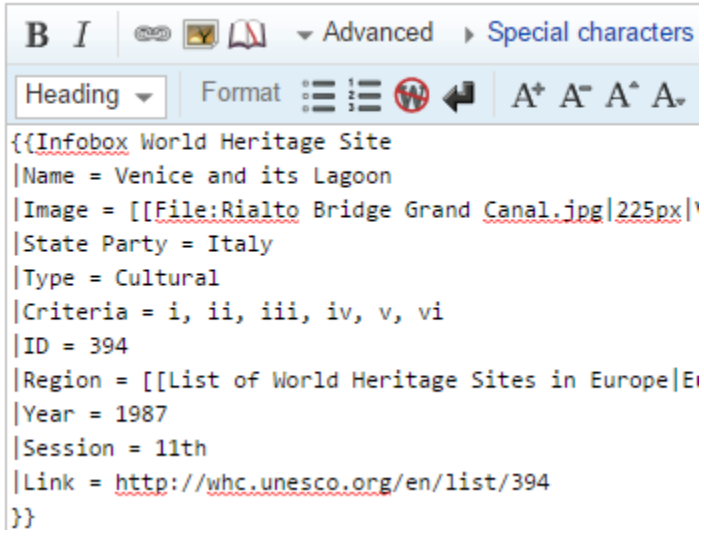
{{Infobox World Heritage Site}}

Editing Venice





https://en.wikipedia.org/wiki/Template:Infobox_World_Heritage_Site

https://en.wikipedia.org/wiki/Venice

Listeria – Wikidata list template

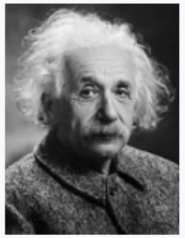
User:Sic19/authors of books burned in 1933

From Wikipedia, the free encyclopedia
< User:Sic19

This list is automatically generated from data in Wikidata and is periodically updated by Listeriabot.

Automatically update the list now | SPARQL | Find images

Edits made within the list area will be removed on the next update!

image	name	description	occupation	date of birth	place of birth	date of death	place of death	archives at
	Maxim Gorky	Russian and Soviet writer	writer playwright novelist autobiographer diarist screenwriter journalist poet	1868-03-16	Nizhny Novgorod	1936-06-18	Gorki Leninskiye Moscow	University of Pennsylvania Libraries Library of Congress
	Albert Einstein	German-American physicist and founder of the theory of relativity	theoretical physicist philosopher of science inventor science writer educator university teacher professor physicist non-fiction writer	1879-03-14	Ulm	1955-04-18	Princeton	Swiss Literary Archives
	Walter Benjamin	German literary critic, philosopher and social critic (1892-1940)	philosopher writer translator essayist literary critic sociologist	1892-07-15	Berlin	1940-09-26	Portbou	National Library of Israel Museum of Modern Art

https://en.wikipedia.org/wiki/User%3ASic19%2Fauthors_of_books_burned_in_1933

Dynamic Wikidata lists

Dynamic Wikidata Lists | Create new list | About this tool | Text or Q number(s) | Find | Logged in as Sic19

Libraries damaged during World War II

by Sic19 | 150 items in list | Last update: 2017-06-26 00:17:05 | Force list update | Find images | AutoList

Data | View | Columns | Sections

Language : English [en]

Sectioning: one table per section | one big table | tabbed

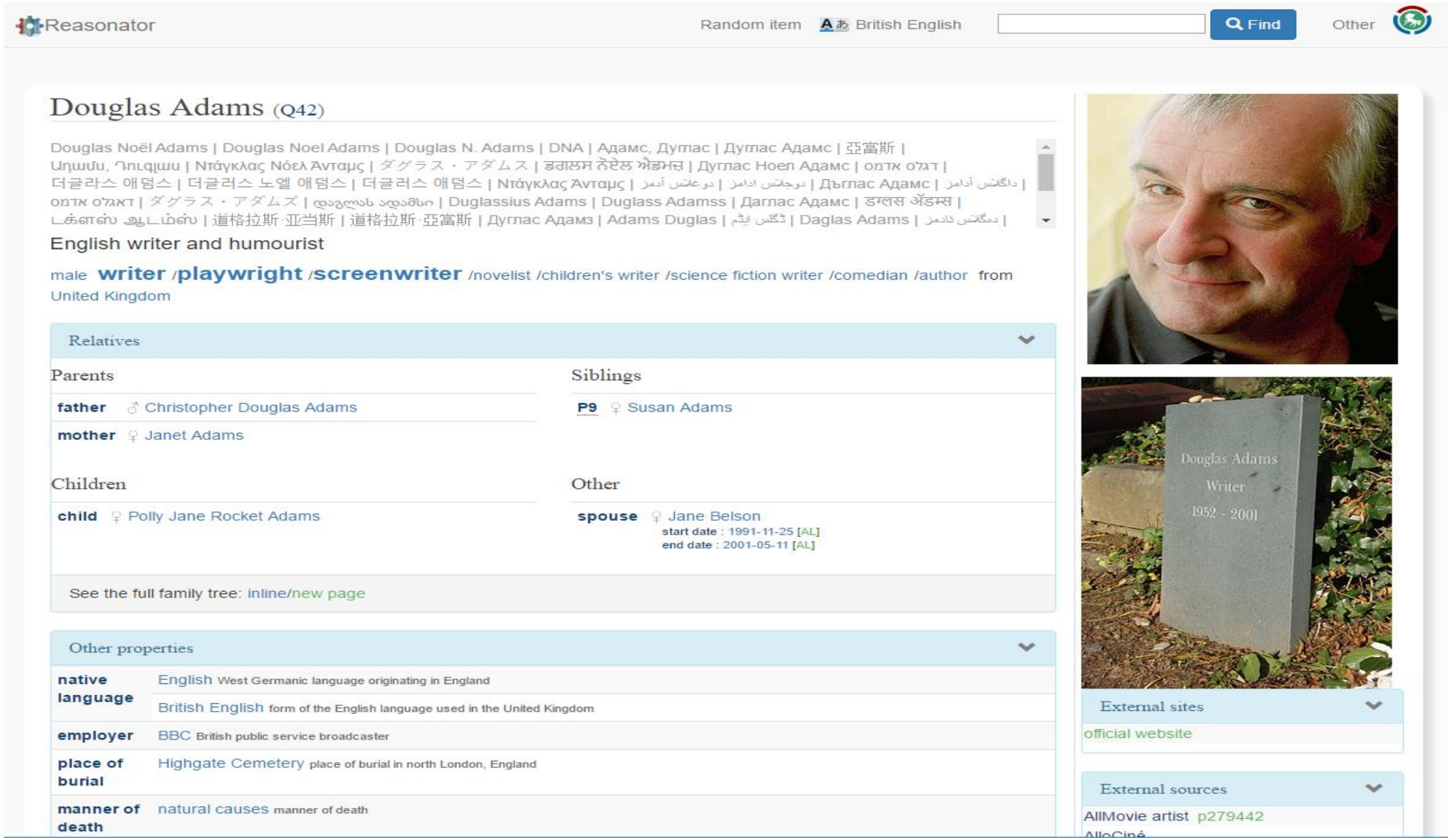
Update | Save list | Save list as

Germany | Poland | United Kingdom | Czech Republic | France | Italy | People's Republic of China | Netherlands | Austria | Belgium | Ukraine | Hungary | Philippines | Romania | Other

country	image	Label	located in the administrative territorial entity	instance of
Poland		Raczyński Library	Poznań	library
Poland		Załuski Library	Śródmieście	public library
Poland		National Library of Poland	Warsaw	national library
Poland		Central Judaic Library	Warsaw	library
Poland		Warsaw University Library	Warsaw	library college library
Poland		Ossolineum	Wrocław	publisher

https://tools.wmflabs.org/listeria/dynamic.html#list=201

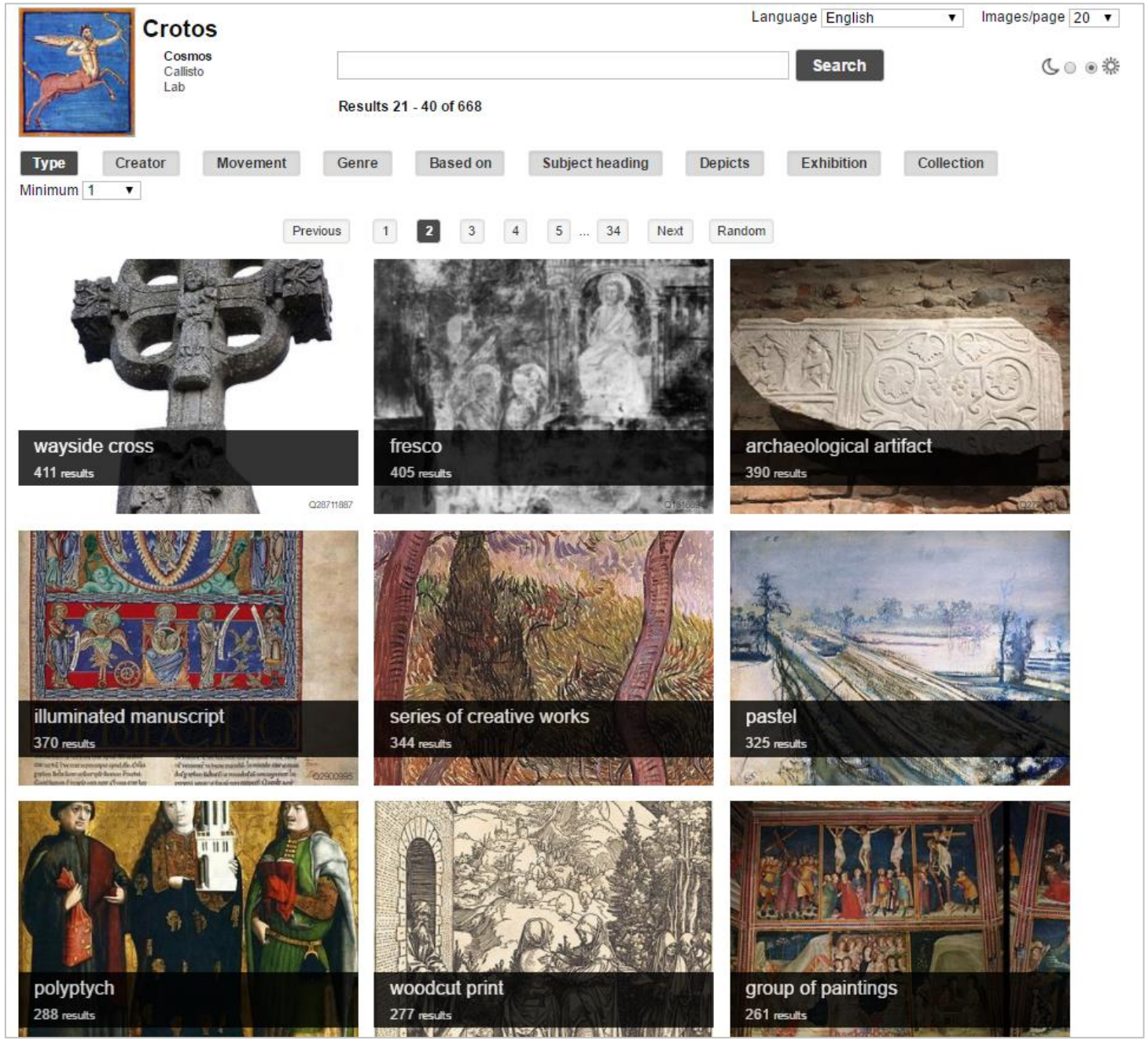
Reasonator – Douglas Adams



https://tools.wmflabs.org/reasonator/?q=Q42&lang=en

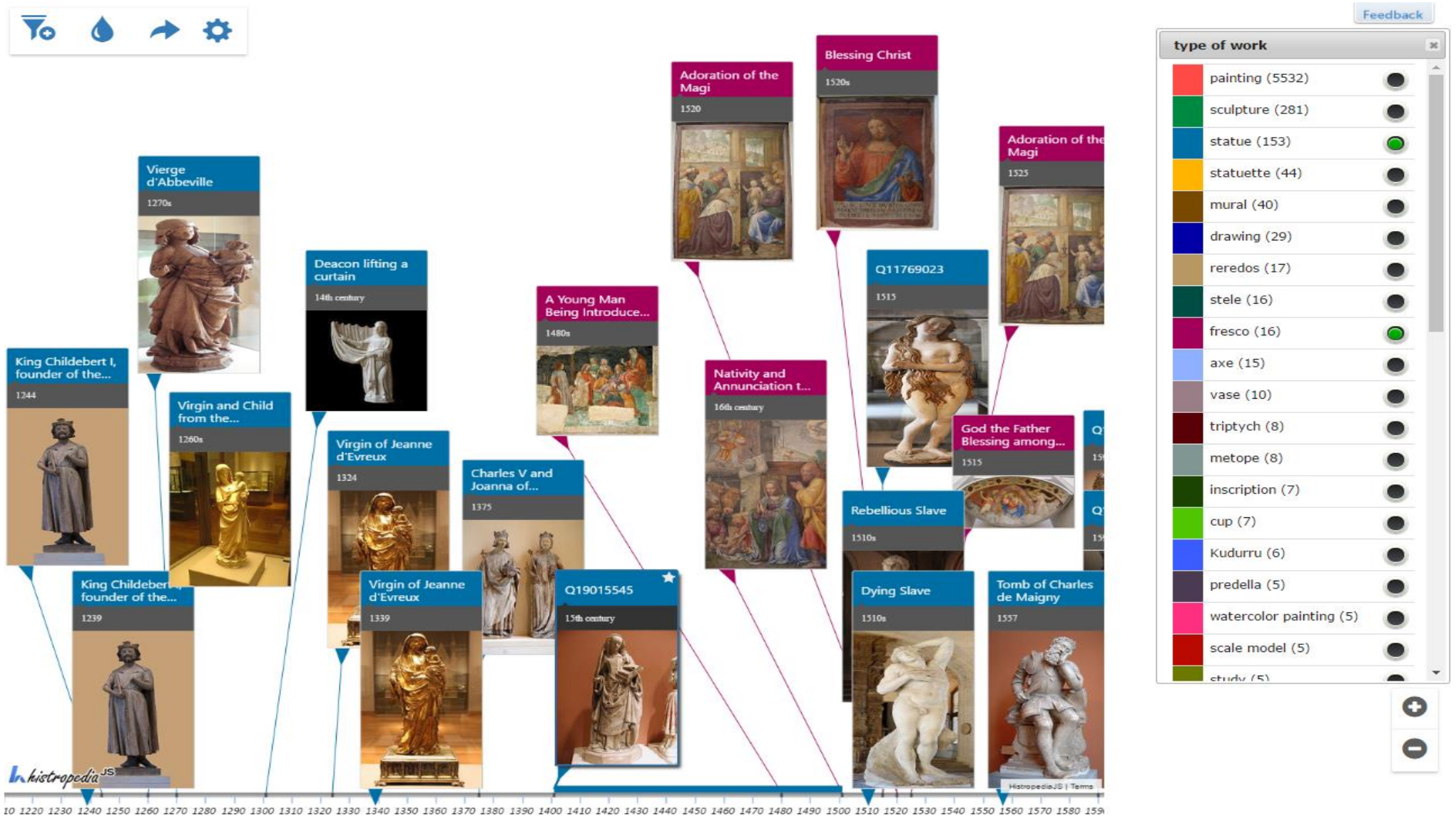
Crotos

- Multilingual artwork browser
- Searches Wikidata
- Files from Commons
- Links to Wikipedia
- Filter artworks by type (e.g. painting, sculpture), time period, creator, institution, etc.



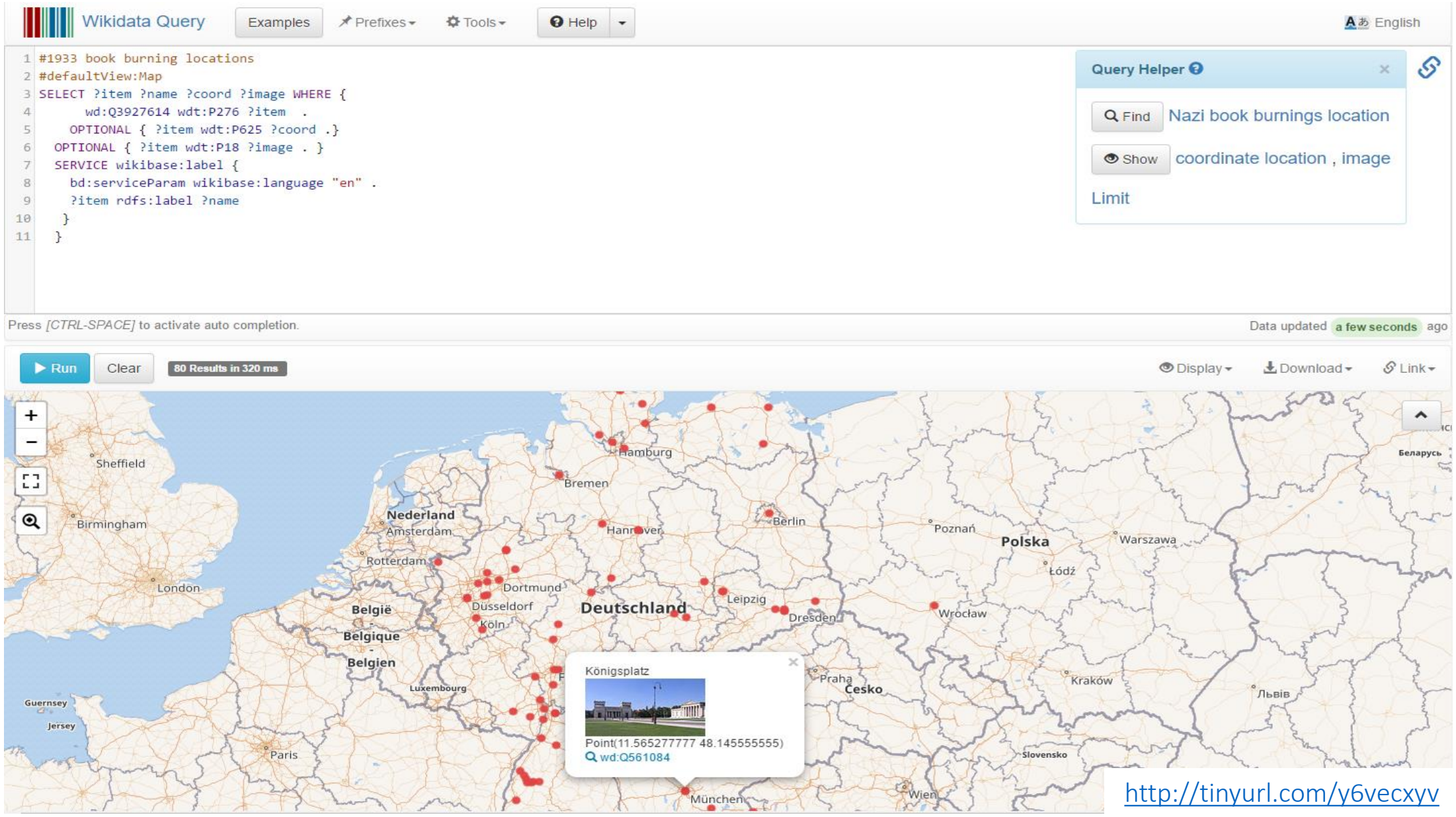
http://zone47.com/crotos/

Histropedia - The Louvre collections



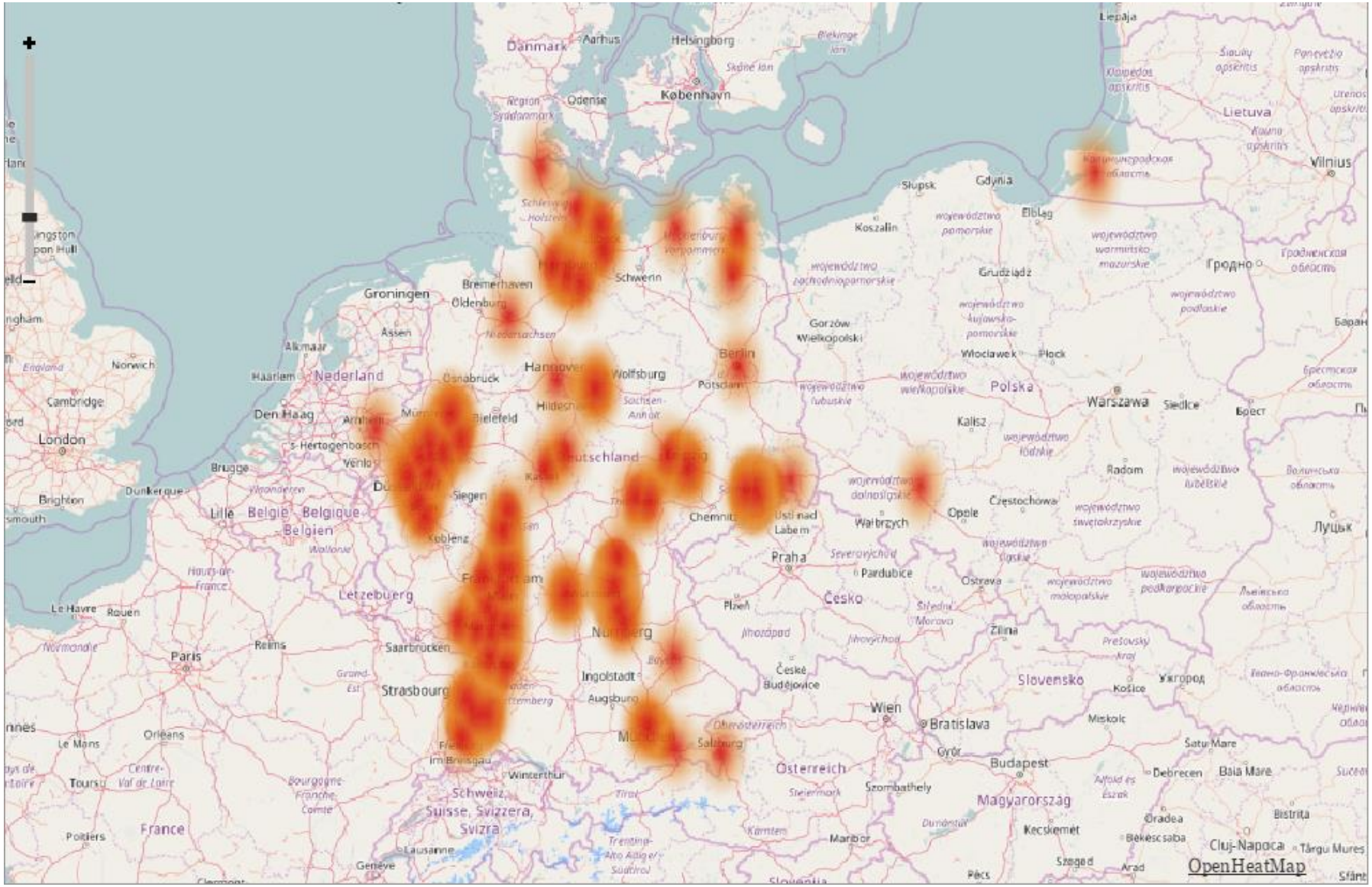
http://www.histropedia.com/showcase/wikidata-viewer.html (see examples)

Wikidata query service (WDQS)



http://tinyurl.com/y6vecxyv

Reuse data – 1933 book burning locations heat map



http://www.openheatmap.com

Thank you!

Any questions?

Contact details:

https://www.wikidata.org/wiki/User_talk:Sic19

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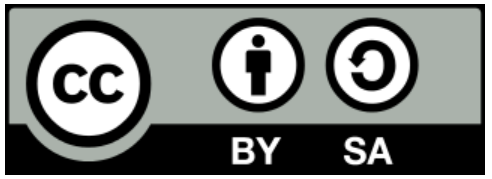

Start editing Wikidata

Wikidata tours:

- https://www.wikidata.org/wiki/Wikidata:Tours

A Gentle Introduction to Wikidata for Absolute Beginners:

- Video - https://www.youtube.com/watch?v=eVrAx3AmUvA
- Slides – https://commons.wikimedia.org/wiki/File:Wikidata_-_A_Gentle_Introduction_for_Complete_Beginners_(WMF_February_2017).pdf

An Ambitious Wikidata Tutorial:

- Video - https://commons.wikimedia.org/wiki/File:An_Ambitious_Wikidata_Tutorial_(all_parts).webm
- Slides - https://commons.wikimedia.org/wiki/File:An_Ambitious_Wikidata_Tutorial.pdf

Need help?

- https://www.wikidata.org/wiki/Wikidata:Project_chat

More information about Wikidata

Wikidata introduction:

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

Structured data:

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

Help portal:

- https://www.wikidata.org/wiki/Help:Contents

Community portal:

- https://www.wikidata.org/wiki/Wikidata:Community_portal

List of properties:

- https://www.wikidata.org/w/index.php?title=Special:ListProperties

Wikidata API:

- https://www.wikidata.org/w/api.php

Tools

- https://www.wikidata.org/wiki/Wikidata:Tools
- https://tools.wmflabs.org/hay/propbrowse/
- https://tools.wmflabs.org/wikidata-game/
- https://angryloki.github.io/wikidata-graph-builder/
- https://tools.wmflabs.org/wikishootme
- https://tools.wmflabs.org/wikidata-todo/quick_statements.php
- http://tools.wmflabs.org/wikidata-todo/tree.html
- https://tools.wmflabs.org/wikidata-todo/missing_images.html

Wikidata reconciliation service (OpenRefine):

- https://github.com/OpenRefine/OpenRefine/wiki/Reconciliation

Wikidata query service

Introduction:

- https://www.wikidata.org/wiki/Wikidata:SPARQL_query_service/A_gentle_introduction_to_the_Wikidata_Query_Service

User manual:

- https://www.mediawiki.org/wiki/Wikidata_query_service/User_Manual

Help portal:

- https://www.wikidata.org/wiki/Wikidata:SPARQL_query_service/Wikidata_Query_Help

SPARQL tutorial:

- https://www.wikidata.org/wiki/Wikidata:A_beginner-friendly_course_for_SPARQL

SPARQL queries:

- https://www.wikidata.org/wiki/Wikidata:SPARQL_query_service/queries
- https://www.wikidata.org/wiki/Wikidata:SPARQL_query_service/queries/examples

Share your data

General information:

- https://www.wikidata.org/wiki/Wikidata:Data_donation
- https://blog.wikimedia.org/2016/08/23/wikidata-glam/

Case studies:

- https://www.wikidata.org/wiki/Wikidata:Flemish_art_collections,_Wikidata_and_Linked_Open_Data/Whitepaper
- https://www.wikidata.org/wiki/Wikidata:WikiProject_Cultural_heritage/Reports/Ingesting_Swiss_heritage_institutions

Projects:

- https://www.wikidata.org/wiki/Wikidata:WikiProject_sum_of_all_paintings
- https://www.wikidata.org/wiki/Wikidata:WikiProject_Cultural_heritage