



WIKIDATA: GADGETS & USER SCRIPTS

LD4 WIKIDATA AFFINITY GROUP CALLS, [DECEMBER 3](#) & [DECEMBER 17](#), 2019

HILARY THORSEN, WIKIMEDIAN IN RESIDENCE, LINKED DATA FOR PRODUCTION PROJECT

USER: CHICAGO HIL

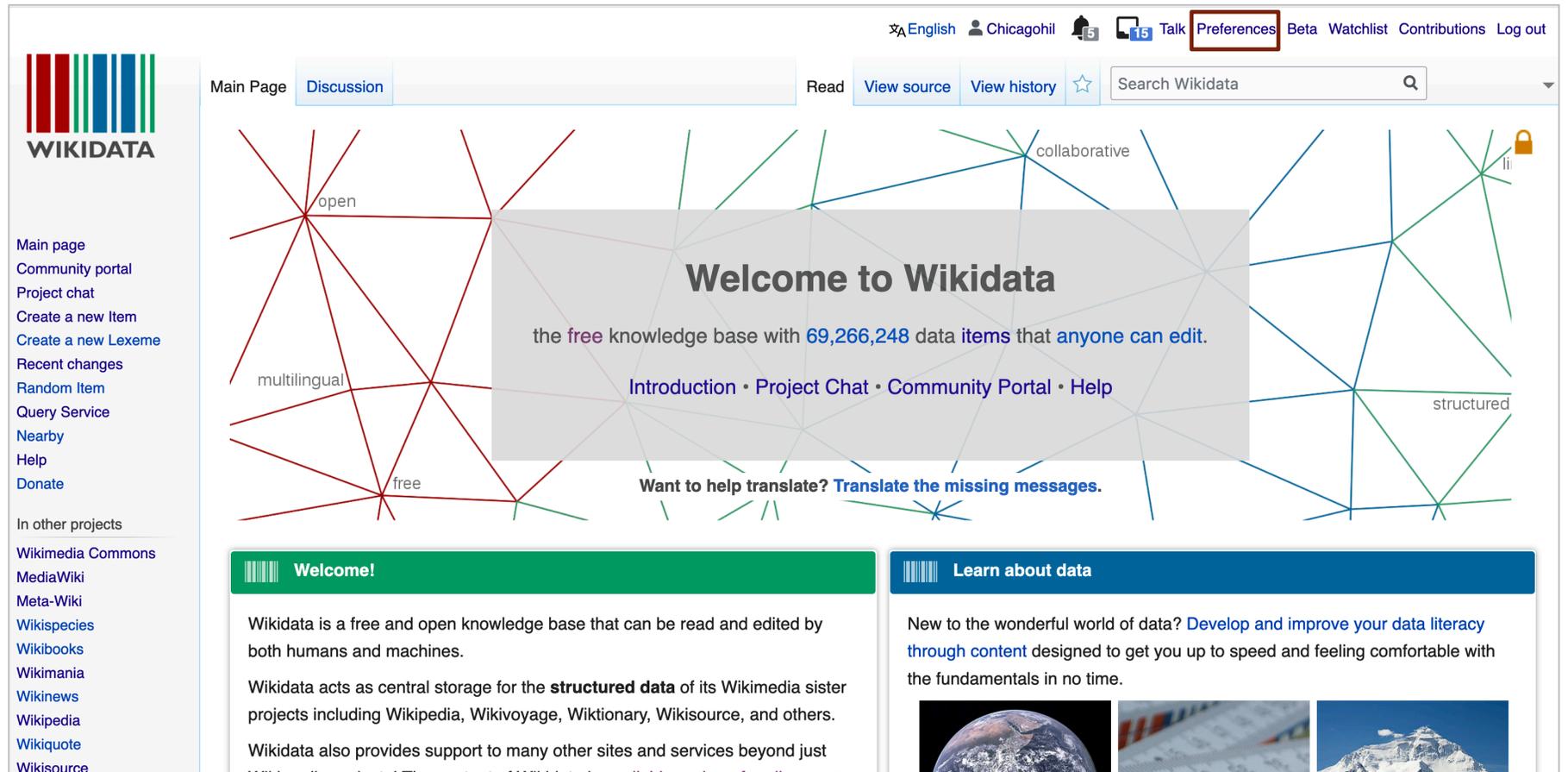
LAST UPDATED: JANUARY 6, 2020

WHAT ARE GADGETS

- Scripts or programs written by users to make tasks more efficient and easier
- Most gadgets are based on JavaScript, so you need to have it enabled in your browser for them to work
- These are usually maintained by users
- Issues with a gadget or ideas for a new one can be [added as a task](#) to Phabricator
- [Brief descriptions of the gadgets](#)

HOW TO ENABLE GADGETS

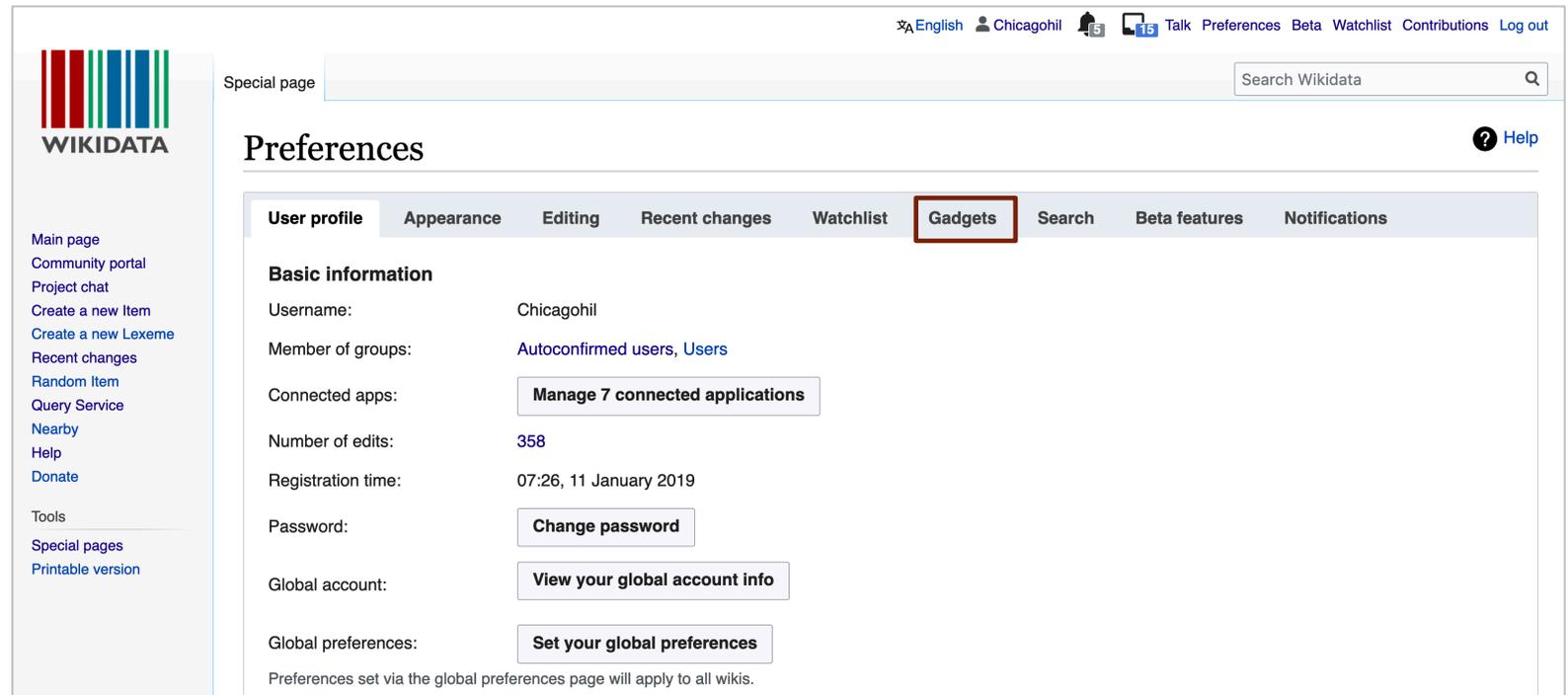
- Log in
- Choose "Preferences" from the top right toolbar



The screenshot shows the Wikidata main page. The top right toolbar contains the following items: English, Chicagohil, a notification bell, a mobile device icon, Talk, **Preferences** (highlighted with a red box), Beta, Watchlist, Contributions, and Log out. The main content area features a large central banner with the text "Welcome to Wikidata" and "the free knowledge base with 69,266,248 data items that anyone can edit." Below this banner are two columns of content: "Welcome!" and "Learn about data". The background of the main content area is a network diagram with nodes and connecting lines, some labeled with terms like "open", "multilingual", "free", "collaborative", and "structured".

HOW TO ENABLE GADGETS

- Click on “Gadgets” tab



The screenshot shows the Wikidata user interface. At the top right, there are navigation links for English, user profile (Chicagohil), and various tools like Talk, Preferences, Beta, Watchlist, Contributions, and Log out. A search bar for Wikidata is also present. The main content area is titled "Preferences" and has a sub-header "Special page" with a search input. Below this, there are several tabs: "User profile", "Appearance", "Editing", "Recent changes", "Watchlist", "Gadgets" (which is highlighted with a red box), "Search", "Beta features", and "Notifications". Under the "Gadgets" tab, the "Basic information" section is visible, showing details for the user Chicagohil, including their member groups, connected apps (7), number of edits (358), registration time, and options to change password, view global account info, and set global preferences.

HOW TO ENABLE GADGETS

- To enable a gadget, click the checkbox next to it
- Then click “Save”

Special page Search Wikidata

Preferences ? Help

User profile Appearance Editing Recent changes Watchlist **Gadgets** Search Beta features Notifications

Below is a list of gadgets you can enable for your account. These gadgets are mostly based on JavaScript, so JavaScript has to be enabled in your browser for them to work. Note that these gadgets will have no effect on this preferences page.

Also note that these special gadgets are not part of the MediaWiki software, and are usually developed and maintained by users on your local wiki. Local administrators can edit the [definitions](#) and [descriptions](#) of available gadgets. The numbers of users for each gadget on this wiki is listed at [Gadget usage statistics](#).

See also: [Wikidata:Tools](#).

i If you have a problem with a gadget or you have an idea for a new gadget: please [add a task](#) to Phabricator.

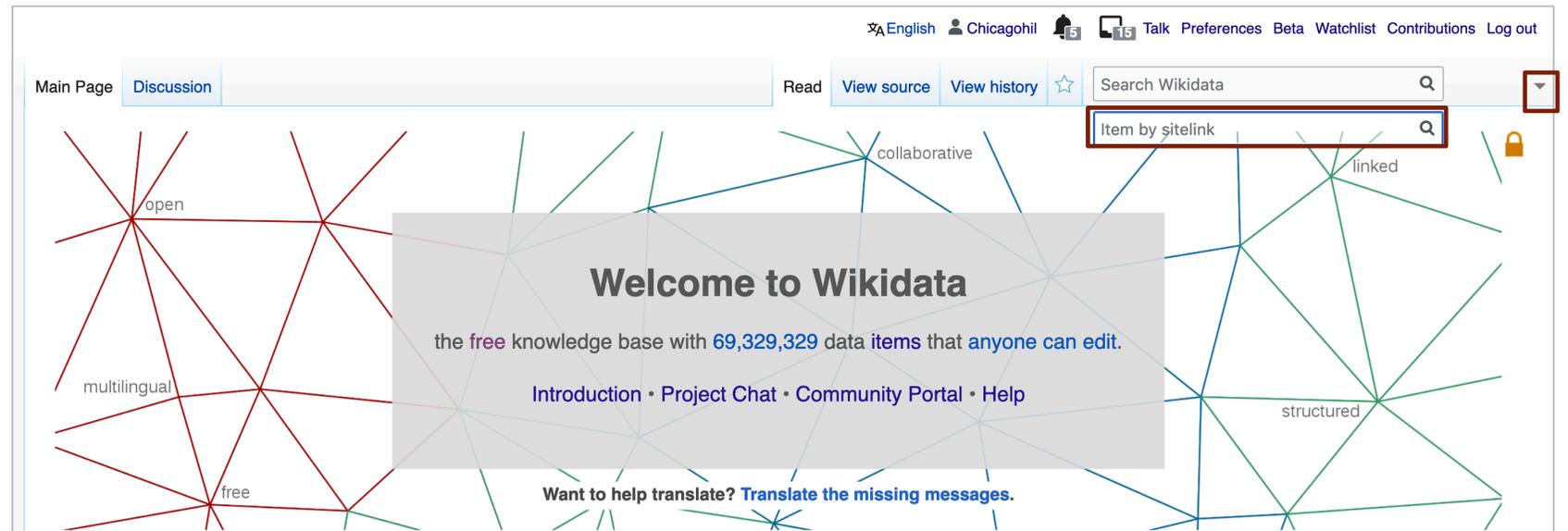
Wikidata-centric

- Merge:** This script adds a tool for merging items
- slurpInterwiki:* Import interwikis from a Wikimedia project.
- autoEdit:* Automatically add labels thanks to existing interwiki links and descriptions thanks to a list that you can customize.
- FindRedirectsForAliases:* Adds a "Find redirects" button in a submenu next to the "Watch" button that, when clicked, displays a list of Wikipedia redirects and allows the user to select some of them to add as aliases.
- labelLister:* Show and edit labels, descriptions and aliases from other languages.
- Mass:* Add a mass tool to the site that allows to mass edit labels, descriptions and aliases.

Save [Restore all default settings \(in all sections\)](#)

SEARCH

- Enabled by default
- Shows a small downward pointing arrow to the right of the search field
- Clicking it brings up a search box to find an item directly by its sitelink
- Helpful if you know what the item is called in Wikipedia and want to find it quickly in Wikidata



AUTHORITYCONTROL

- Enabled by default
- <https://www.wikidata.org/wiki/MediaWiki:Gadget-AuthorityControl.js>
- Provides external links based on string properties for some Wikidata statements that are not external identifiers
- In the past was used with external identifiers
 - [Property:VIAF](#) could add a link to <http://viaf.org/viaf/> + property value
 - Now covered by [property formatter URL](#)

PROTECTION INDICATORS

- Enabled by default
- Adds a padlock page indicator for protected entities
- [Protected pages documentation](#)
- [List of protected pages](#)



Item Discussion Read View history Search Wikidata

Library of Congress (Q131454)

(de facto) national library of the United States of America [edit](#)

LOC | LoC | Congressional Library | LC | United States. Library of Congress | loc.gov | US Library of Congress

[In more languages](#)

Language	Label	Description	Also known as
English	Library of Congress	(de facto) national library of the United States of America	LOC LoC Congressional Library LC United States. Library of Congress loc.gov US Library of Congress
Spanish	Biblioteca del Congreso de Estados Unidos	biblioteca nacional (de facto) de Estados Unidos	Librería del Congreso de los Est... U.S. Library of Congress

SITE ID TO INTERWIKI

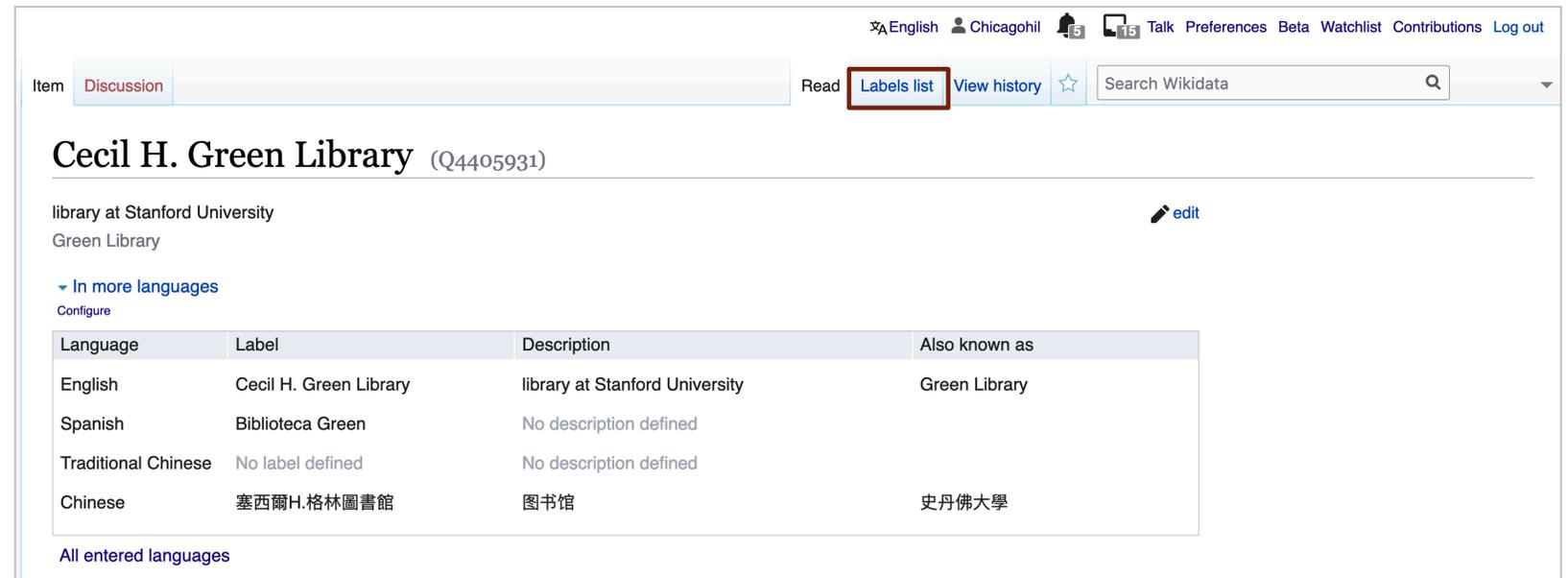
- Enabled by default
- Replaces the site ID with the interwiki code in the sitelinks section (example: enwiki > en)

<p>Wikipedia (81 entries) edit</p> <p>enwiki Library of Congress</p> <p>alswiki Library of Congress</p> <p>arwiki مكتبة الكونغرس mktbth alkwnghrs</p> <p>arwiki مكتبة الكونغرس الامريكى mktbth alkwnjrs alamryká</p> <p>astwiki Biblioteca del Congresu d'Estaos Xunios Biblioteca del Congresu d'Estaos Xunios</p> <p>aswiki দ্য লাইব্ৰেৰী অব্ কংগ্ৰেছ dya läibrerī ab kamgrecha</p>	<p>Wikibooks (0 entries) edit</p> <p>Wikinews (2 entries) edit</p> <p>dewikinews Kategorie:Library of Congress</p> <p>ruwikinews Категория:Библиотека Конгресса Kategoriya:Biiblioteka Kongressa</p>
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<p>Wikipedia (81 entries) edit</p> <p>en Library of Congress</p> <p>als Library of Congress</p> <p>ar مكتبة الكونغرس mktbth alkwnghrs</p> <p>arz مكتبة الكونغرس الامريكى mktbth alkwnjrs alamryká</p> <p>ast Biblioteca del Congresu d'Estaos Xunios Biblioteca del Congresu d'Estaos Xunios</p> <p>as দ্য লাইব্ৰেৰী অব্ কংগ্ৰেছ dya läibrerī ab kamgrecha</p> <p>az Kongres Kitabxanası Kongres Kitabxanası</p>	<p>Wikibooks (0 entries) edit</p> <p>Wikinews (2 entries) edit</p> <p>de Kategorie:Library of Congress</p> <p>ru Категория:Библиотека Конгресса Kategoriya:Biiblioteka Kongressa</p> <p>Wikiaquote (0 entries) edit</p>
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LABELLISTER

- Show and edit labels, descriptions and aliases from other languages
- Shows all languages supported in the specific item
- Edit labels without changing your main language
- Edit multiple languages at a time



The screenshot shows the Wikidata page for 'Cecil H. Green Library' (Q4405931). The 'Labels list' tab is highlighted with a red box. The page displays the library's name in English and Chinese, along with its description and aliases in multiple languages.

Item: [Discussion](#) | Read | **Labels list** | [View history](#) | [Search Wikidata](#)

Cecil H. Green Library (Q4405931)

library at Stanford University
Green Library [edit](#)

[In more languages](#)
Configure

Language	Label	Description	Also known as
English	Cecil H. Green Library	library at Stanford University	Green Library
Spanish	Biblioteca Green	No description defined	
Traditional Chinese	No label defined	No description defined	
Chinese	塞西爾H.格林圖書館	图书馆	史丹佛大學

[All entered languages](#)

LABELLISTER

- New beta version, which has a better interface

Labels list

NEW ! : Change several language in one fell swoop ([go to beta version](#)).

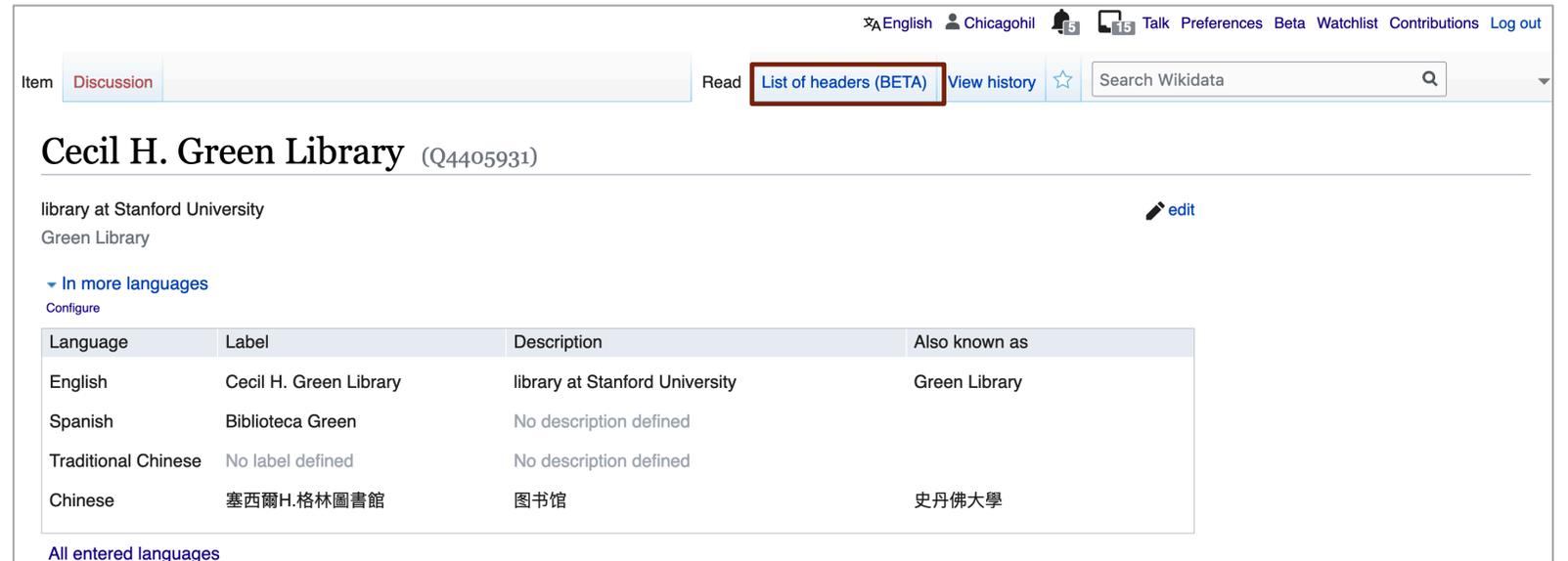
Labels list of **Q4405931**:

#	Label	Description	Alias
ar		مكتبة	
bg		библиотека	
de		Bibliothek	
en	Cecil H. Green Library	library at Stanford University	Green Library
es	Biblioteca Green		
fr	bibliothèque Cecil-H.-Green	bibliothèque	bibliothèque Green
he		ספרייה בארצות הברית	
ja		図書館	
ko		도서관	
ky		китепкана	
nl		bibliotheek in Californië, Verenigde Staten van Amerika	
ru		библиотека	
tg		китобхона	
zh	塞西爾H.格林圖書館	图书馆	史丹佛大學

? Edit Close

LABELLISTER

- Beta version changes name of the tab to “List of headers (BETA)”



The screenshot shows the Wikidata interface for the item 'Cecil H. Green Library' (Q4405931). The 'List of headers (BETA)' tab is selected and highlighted with a red box. The table below lists the labels and descriptions for this library in various languages.

Language	Label	Description	Also known as
English	Cecil H. Green Library	library at Stanford University	Green Library
Spanish	Biblioteca Green	No description defined	
Traditional Chinese	No label defined	No description defined	
Chinese	塞西爾H.格林圖書館	图书馆	史丹佛大學

[All entered languages](#)

LABELLISTER

- Search to see if a language is already there
- Add a new language
- Click “Preview” to see your changes

List of all labels in different languages

BETA version : This is a beta version, please check your contributions. ([go back to released version](#))

Tips and tricks : Just click to edit. You need to preview changes before saving. Click [here](#) to get more information.

[+] Add new language

Language	Data
English	Label : Cecil H. Green Library Aliases : <input type="text" value="Green Library"/> Description : library at Stanford University
Spanish	Label : Biblioteca Green Aliases : Description :
Chinese	Label : 塞西爾H.格林圖書館 Aliases : <input type="text" value="史丹佛大學"/> Description : 图书馆
French	Label : bibliothèque Cecil-H.-Green Aliases : <input type="text" value="bibliothèque Green"/> Description : bibliothèque
Dutch	Label : Aliases : Description : bibliotheek in Californië, Verenigde Staten van Amerika
Hebrew	Label : Aliases : Description : ספרייה בארצות הברית
Japanese	Label : Aliases : Description : 図書館

LABELLISTER

- Click “Accept changes”
- You should see a message saying “This edit has been correctly sent to the database”

List of all labels in different languages ×

BETA version : This is a beta version, please check your contributions. ([go back to released version](#))

Tips and tricks : Just click to edit. You need to preview changes before saving. Click [here](#) to get more information.

Type	Language	Data
description	Spanish	[empty] biblioteca de la Universidad Stanford

Summary :
desc(new[es])

List of all labels in different languages ×

BETA version : This is a beta version, please check your contributions. ([go back to released version](#))

Tips and tricks : Just click to edit. You need to preview changes before saving. Click [here](#) to get more information.

✓ **Success** : This edit has been correctly sent to the database

KEY SHORTCUTS

- Keyboard shortcuts for tasks
- Press lowercase L to start editing an entity's label
- Press lowercase D to start editing an entity's description
- Press lowercase S to scroll down to the statements
- Press lowercase I to scroll down to the sitelinks
- Press lowercase A to start adding a new statement

DESCRIPTIONS

- Shows the description of items and properties when hovering them

Item [Discussion](#) Read [View history](#) [☆](#) [Q](#)

Cecil H. Green Library (Q4405931)

library at Stanford University [edit](#)
Green Library

[↕ In more languages](#)

Language	Label	Description	Also known as
English	Cecil H. Green Library	library at Stanford University	Green Library
Spanish	Biblioteca Green	No description defined	
Portuguese	No label defined	No description defined	

[All entered languages](#)

Statements

instance of	library edit
	<div style="border: 1px solid red; padding: 2px;">institution charged with the care of a collection of literary, musical, artistic, or reference materials, such as books, manuscripts, recordings, or films</div>
	+ add reference
	+ add value

REASONATOR

- Adds a link to [Reasonator](#) for every item
- More advanced search and display of Wikidata items
- Displays Wikidata entries in an item-type-optimized fashion, and shows related significant data through simple reasoning
- Useful for viewing items that have a very large number of statements

The screenshot shows the Wikidata page for the 'Library of Congress' (Q131454). The page includes a sidebar with navigation links, a main content area with a table of multilingual labels and descriptions, and a search bar. The 'Reasonator' link is highlighted in the sidebar.

Wikidata

Item: [Discussion](#) [Read](#) [View history](#) [Search Wikidata](#)

Library of Congress (Q131454)

(de facto) national library of the United States of America [edit](#)

LOC | LoC | Congressional Library | LC | United States. Library of Congress | loc.gov | US Library of Congress

[In more languages](#)

Language	Label	Description	Also known as
English	Library of Congress	(de facto) national library of the United States of America	LOC LoC Congressional Library LC United States. Library of Congress loc.gov US Library of Congress
Spanish	Biblioteca del Congreso de Estados Unidos	biblioteca nacional (de facto) de Estados Unidos	Librería del Congreso de los Est... U.S. Library of Congress Biblioteca del Congreso de Esta... Biblioteca del Congreso Biblioteca del Congreso de los ... Library of Congress Biblioteca del Congreso de los ... Biblioteca del Congreso de Was... Librería del Congreso de los Est... Biblioteca del Congreso de Esta... Biblioteca del Congreso de los ...
Portuguese	Biblioteca do Congresso	Biblioteca dos Estados Unidos	Library of congress Biblioteca do Congresso Americ... Livraria do congresso

Print/export
Create a book
Download as PDF
Printable version

Tools
[What links here](#)
[Related changes](#)
[Special pages](#)
[Permanent link](#)
[Page information](#)
[Concept URI](#)
[Cite this page](#)
[Reasonator](#)

EASYQUERY

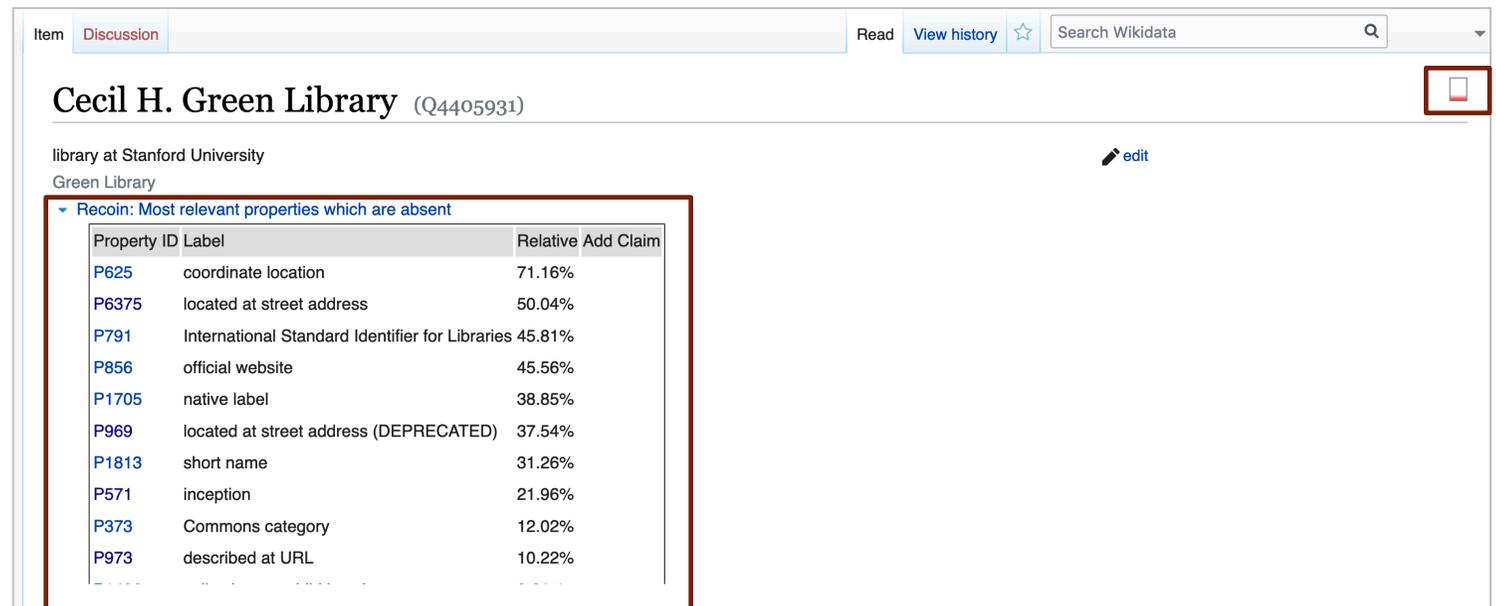
- Adds ... icon next to items
- Clicking it initiates a query to find similar items

The screenshot displays the 'Statements' section of the EasyQuery interface. It features a list of statements with a dropdown menu for the 'national library' statement. The dropdown menu is open, showing a list of similar items with their labels and images.

item	label	_image
wd:Q11420348	Japan. Kunaishō. Zushoryō	
wd:Q11421240	Q11421240	
wd:Q12016613	National Library of Turkmenistan	commons:Ashgabat - National Library (3891768059).jpg
wd:Q12193681	National Library of the Comoros	
wd:Q12406834	United States National Agricultural Library	commons:National Agricultural Library by Matthew Bisanz.jpg

RECOIN

- Relative Completeness Indicator
- Extends Wikidata entity pages with information about the relative completeness of the information by adding an icon
- Measured by comparing information found in an item based on its class with that of similar items
- Tells you most relevant properties that item does not yet have
- Helps to give you ideas of what can be added to the item
- Can also be helpful for consumers to know how complete an item is and whether it is useful to them



The screenshot shows the Wikidata page for 'Cecil H. Green Library' (Q4405931). The page includes a navigation bar with 'Item', 'Discussion', 'Read', 'View history', and a search box. The main content area displays the item name and a description: 'library at Stanford University' and 'Green Library'. A red box highlights a small icon in the top right corner of the main content area. Below the description, a section titled 'Recoin: Most relevant properties which are absent' is expanded, showing a table of missing properties.

Property ID	Label	Relative	Add Claim
P625	coordinate location	71.16%	
P6375	located at street address	50.04%	
P791	International Standard Identifier for Libraries	45.81%	
P856	official website	45.56%	
P1705	native label	38.85%	
P969	located at street address (DEPRECATED)	37.54%	
P1813	short name	31.26%	
P571	inception	21.96%	
P373	Commons category	12.02%	
P973	described at URL	10.22%	

RELATED ITEMS

- Adds a button to the bottom of item pages to display inverse statements

NLA Trove ID 904789 [edit](#)

▼ 0 references

[+ add reference](#)

[+ add value](#)

[+ add statement](#)

[show derived statements](#)

[+ add statement](#)

Wikipedia (81 entries) [edit](#)

en [Library of Congress](#)

als [Library of Congress](#)

Wikibooks (0 entries) [edit](#)

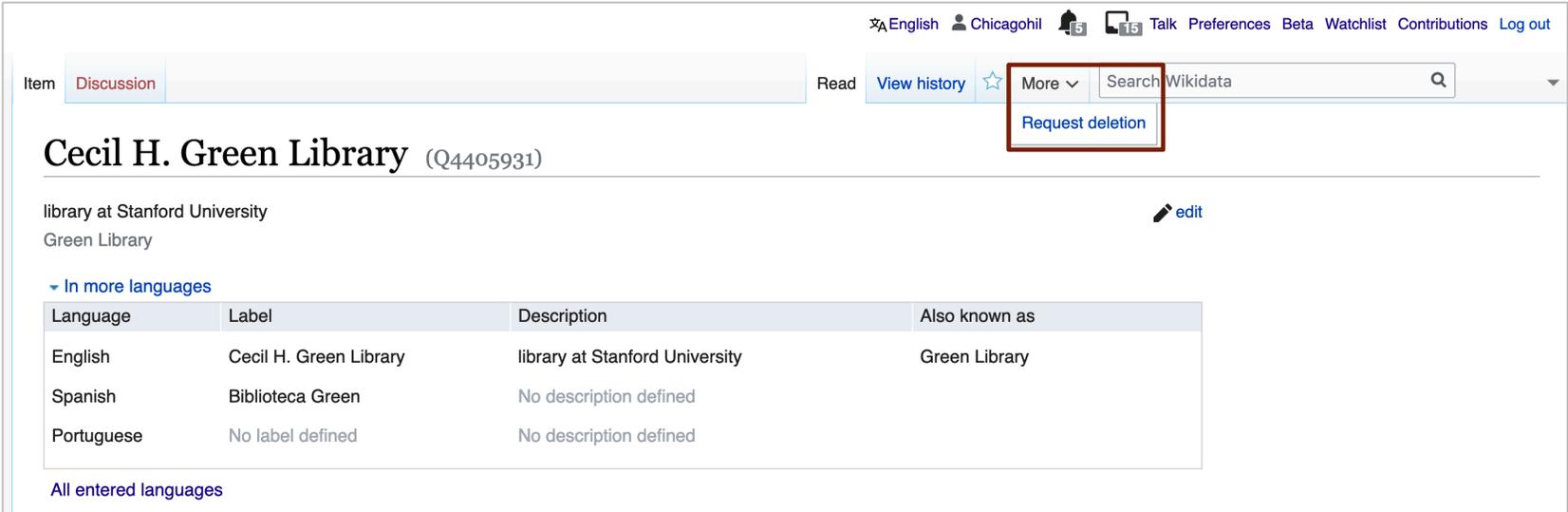
Wikinews (2 entries) [edit](#)

Derived statements

employee	John Earl Haynes
	Helen Field Conover
	Mary-Jane Deeb
	Beverly Ann Gray

REQUEST DELETION

- Adds a link at the top of each item for requesting a deletion



The screenshot shows the Wikidata interface for the item 'Cecil H. Green Library' (Q4405931). At the top right, there are navigation links for 'English', 'Chicagohil', 'Talk', 'Preferences', 'Beta', 'Watchlist', 'Contributions', and 'Log out'. Below these, there are buttons for 'Item', 'Discussion', 'Read', 'View history', and a 'More' dropdown menu. The 'More' dropdown menu is open, and the 'Request deletion' option is highlighted with a red box. Below the item name, there is a description: 'library at Stanford University' and 'Green Library'. There is also an 'edit' link. Below the description, there is a section for 'In more languages' with a table showing the item's label and description in English, Spanish, and Portuguese.

Language	Label	Description	Also known as
English	Cecil H. Green Library	library at Stanford University	Green Library
Spanish	Biblioteca Green	No description defined	
Portuguese	No label defined	No description defined	

[All entered languages](#)

TRANSCRIPTIONS

- Appends approximate transliteration of page titles to each site link
- Potentially useful for working with not familiar scripts

The screenshot displays a search interface for the term "Library of Congress". The results are organized into several sections:

- Wikipedia (81 entries)**: A list of 25 entries in various languages, including English, Arabic, Armenian, Asturian, Assamese, Azerbaijani, Bashkir, Belarusian, Bulgarian, Breton, Bosnian, Catalan, Chechen, Kurdish, Czech, Croatian, Welsh, Danish, German, Dinka, and Greek. The English entry "en Library of Congress" is highlighted in green.
- Wikibooks (0 entries)**: No results.
- Wikinews (2 entries)**: Two entries in German and Russian: "de Kategorie:Library of Congress" and "ru Категория:Библиотека Конгресса".
- Wikiquote (0 entries)**: No results.
- Wikisource (0 entries)**: No results.
- Wikiversity (0 entries)**: No results.
- Wikivoyage (0 entries)**: No results.
- Wiktionary (0 entries)**: No results.
- Other sites (1 entry)**: One entry in Commons: "commons Library of Congress".

DUPLICATE REFERENCES

- Adds a link to copy references and add them to other statements on the same item
- Covered in more detail in a past LD4 Affinity Group Call
 - [Slides](#)
 - [Notes](#)
 - [Recording](#)

located in the administrative territorial entity

California

edit

1 reference

reference URL	https://library.stanford.edu/libraries/green/about
retrieved	3 December 2019

+ add reference

+ add value

copy

part of

Stanford University Libraries

edit

0 references

+ add reference

+ add value

insert reference

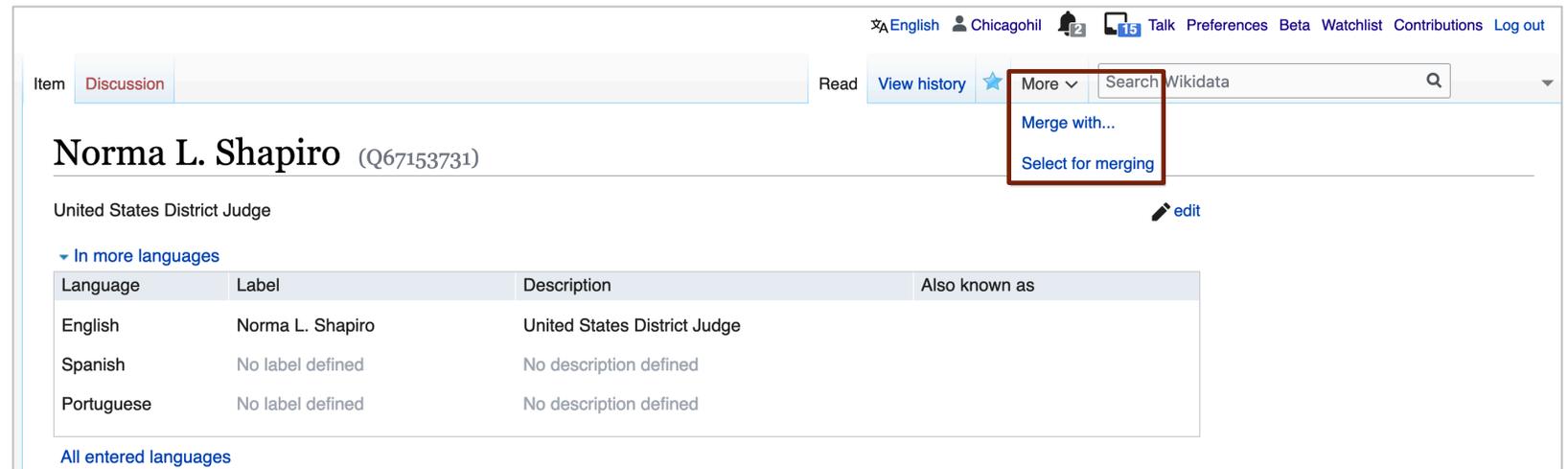
CURRENTDATE

- Automatically adds the date of today while using the property retrieved (P813).

The screenshot shows a metadata editor interface. On the left, a blue sidebar contains the text "part of". The main area displays a list of items. The first item is "Stanford University Libraries" in a text box, with a "publish" checkmark, "remove" trash icon, "cancel" X icon, and a help icon. Below it is a "+ add qualifier" button. A section titled "1 reference" is expanded, showing a "retrieved" property with a value of "2019-12-03". The date is highlighted with a red box. To the right of the date are "remove" and "add" buttons. Below the reference section are "+ add reference" and "+ add value" buttons.

MERGE GADGET

- Allows you to merge items that you determine to be duplicates
- [Documentation](#)
- Covered in more detail during past Affinity Group Call
 - [Slides](#)
 - [Notes](#)
 - [Recording](#)



The screenshot shows the Wikidata interface for the item 'Norma L. Shapiro' (Q67153731). The page title is 'Norma L. Shapiro (Q67153731)'. Below the title, it identifies her as a 'United States District Judge'. A table titled 'In more languages' lists the item's labels and descriptions in English, Spanish, and Portuguese. The English entry shows the label 'Norma L. Shapiro' and the description 'United States District Judge'. The Spanish and Portuguese entries show 'No label defined' and 'No description defined'. A 'More' dropdown menu is open, with 'Merge with...' and 'Select for merging' options highlighted by a red box. The interface also includes a search bar, a 'View history' button, and a 'Discussion' tab.

Language	Label	Description	Also known as
English	Norma L. Shapiro	United States District Judge	
Spanish	No label defined	No description defined	
Portuguese	No label defined	No description defined	

USER SCRIPTS

- Short scripts that add extra functionality to the Wikidata user interface for an individual, logged-in, user
- Each script is stored on a special page, belonging to the user who wrote it
- Each user has a special page where they list the scripts they wish to use (mine is <https://www.wikidata.org/wiki/User:Chicagohil/common.js>)
- Documentation: https://www.wikidata.org/wiki/Help:User_scripts

HOW TO ADD USER SCRIPTS

- Go to <https://www.wikidata.org/wiki/Special:MyPage/common.js>, which will redirect you to your own common.js page
- If you haven't created the page before you will get this message:



- Then you can click on “Create” or “edit this page” to create it

MIX'N'MATCH

- `importScript('User:Magnus_Manske/mixnmatch_gadget.js');`
 - Looks for possible matches in the Mix'n'Match catalogs for the item you are working with
 - Appears just below the label and description section

Jane Austen (Q36322)...

English novelist  edit

[Recoin: Most relevant properties which are absent](#)

[In more languages](#)

Language	Label	Description	Also known as
English	Jane Austen	English novelist	
Spanish	Jane Austen	novelista británica	
Portuguese	Jane Austen	romancista británica	

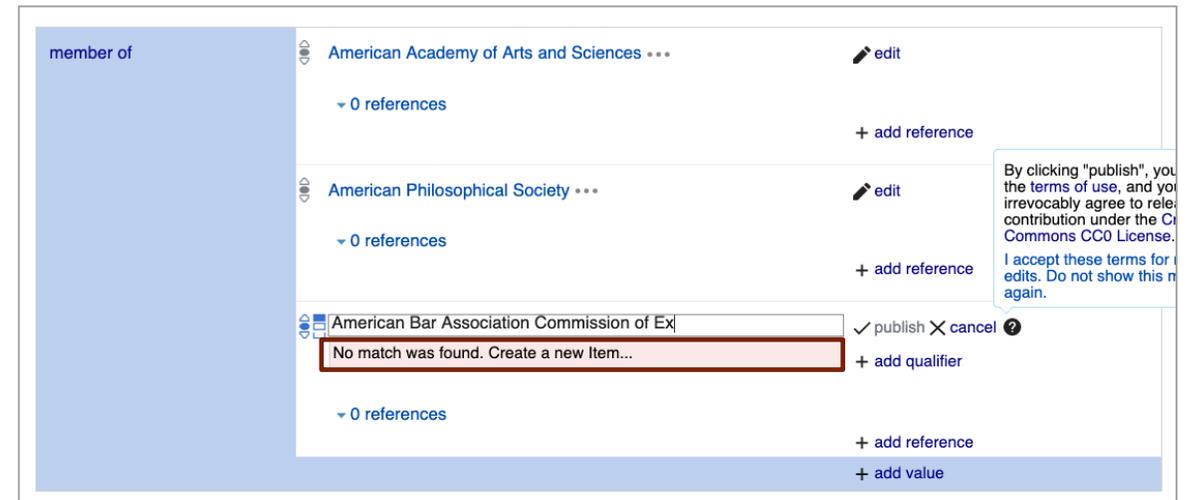
[All entered languages](#)

Mix'n'match entries for this item

<input checked="" type="checkbox"/> ODNB (entry in catalog)	Jane Austen Austen, Jane (1775–1817), novelist	
<input checked="" type="checkbox"/> OpenPlaques (entry in catalog)	Jane Austen PERSON: Jane Austen (1775-1817)	
<input checked="" type="checkbox"/> DBNL authors (entry in catalog)	Jane Austen (1775-1817)	
<input checked="" type="checkbox"/> BMT (entry in catalog)	Jane Austen Person; female; The novelist; author/poet; British; 1775-1817	
<input checked="" type="checkbox"/> NNDB (entry in catalog)	Jane Austen Author; Pride and Prejudice	
<input checked="" type="checkbox"/> NPG (entry in catalog)	Jane Austen (1775-1817), Novelist	

CREATENEWITEM

- `mw.loader.load(`
`'//www.wikidata.org/w/index.php?title=User:Efly/G`
`adget-`
`CreateNewItem.js&action=raw&ctype=text/javasc`
`ript'); // [[User:Efly/Gadget-CreateNewItem.js]]`
- Adds a "create new item" link in the dropdown menu when you want to add an item to a property, but the item does not exist yet



OPEN STREET MAP SEARCH

- `importScript('User:Mxn/overpass.js');`
- Does a search in Open Street map for an object with the same Q#
- Pulls up the map below the sitelinks

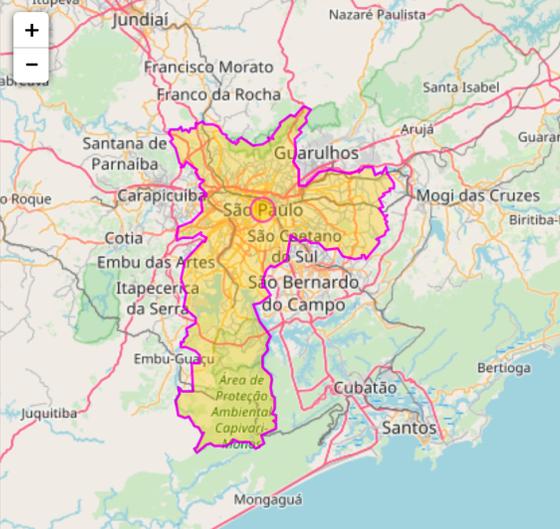
Wikipedia (211 entries) [edit](#)

diq	São Paulo
dsb	São Paulo
dtb	साओ पाउलो
dv	ساؤ پاولو
el	Σάο Πάολο
eml	São Paulo
en	São Paulo
eo	San-Paŭlo (urbo)
es	São Paulo
et	São Paulo
eu	São Paulo
ext	São Paulo
fa	ساؤ پاولو
fiu_vro	São Paulo
fi	São Paulo
fj	São Paulo
fo	São Paulo
frp	Sant Pòl du Brèsil
frr	São Paulo
fr	São Paulo
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