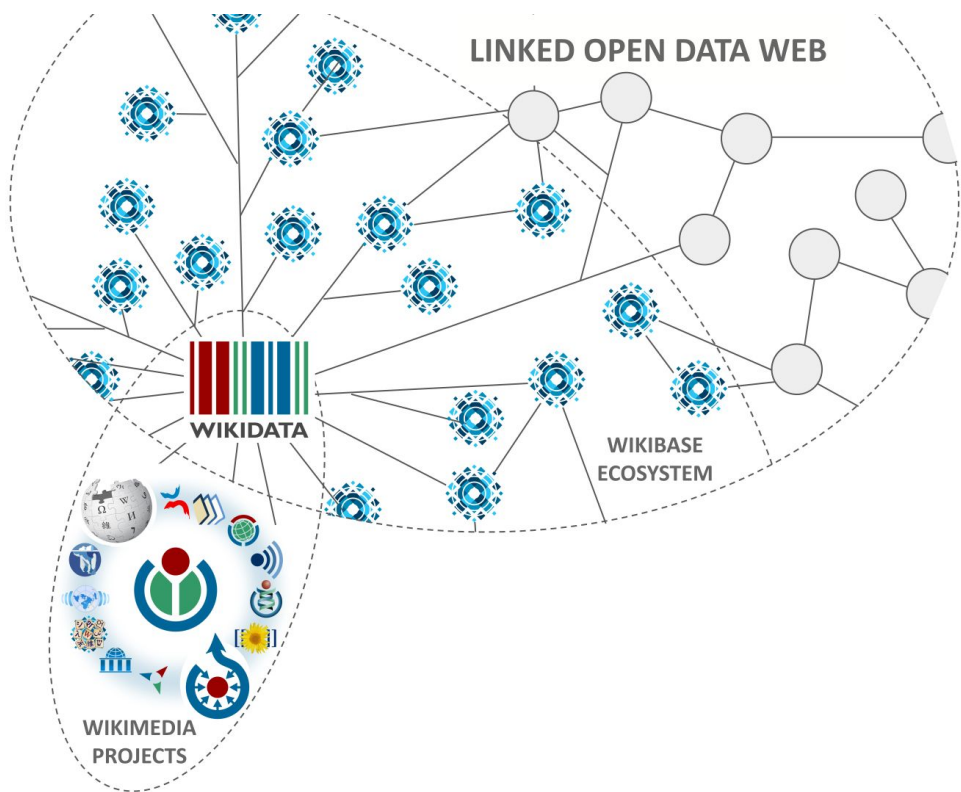




Wikidata + Books



Silvia E. Gutiérrez De la Torre
Senior Program Officer, Libraries (WMF)
#EveryBookItsReader, March 2022



Laurie Bridges
Academic Librarian
Oregon State University

Who are we?

- Oregon State University,
Instruction and Outreach Librarian
- Co-Organizer of
#EveryBookItsReader campaign
 - bit.ly/EveryBookIts
- [Bridgesbio.weebly.com](https://bridgesbio.weebly.com)

meta.wikimedia.org/wiki/EveryBooksItsReader_2023



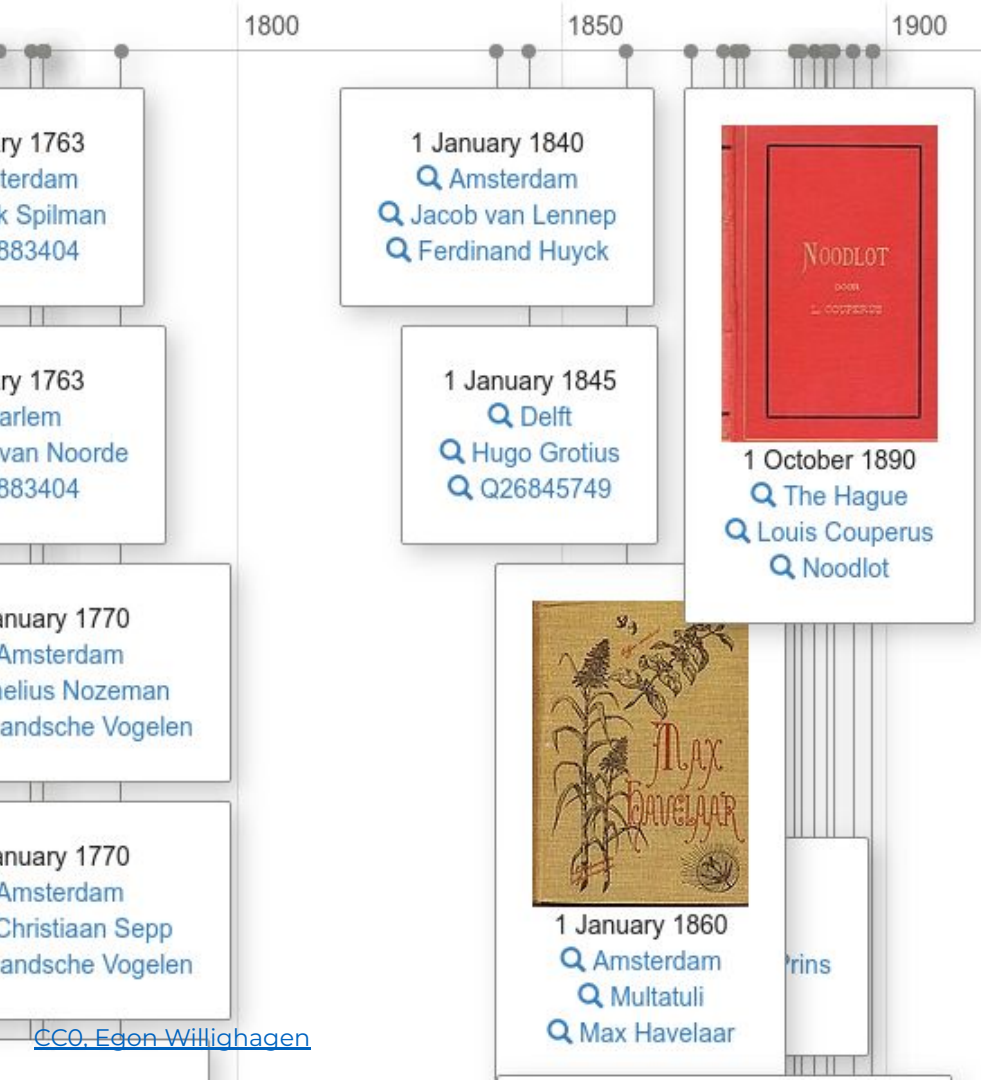
**#EVERY BOOK
ITS READER**

Who are we?

- Digital Humanities Librarian (~ 7 years)
- Passionate about connecting, enriching and visualizing data (because I believe it is a way of critical thinking)
- Wikidata mosquito bite in [2014](#)



Silvia Gutiérrez
Sr Program Officer Libraries
Wikimedia Foundation



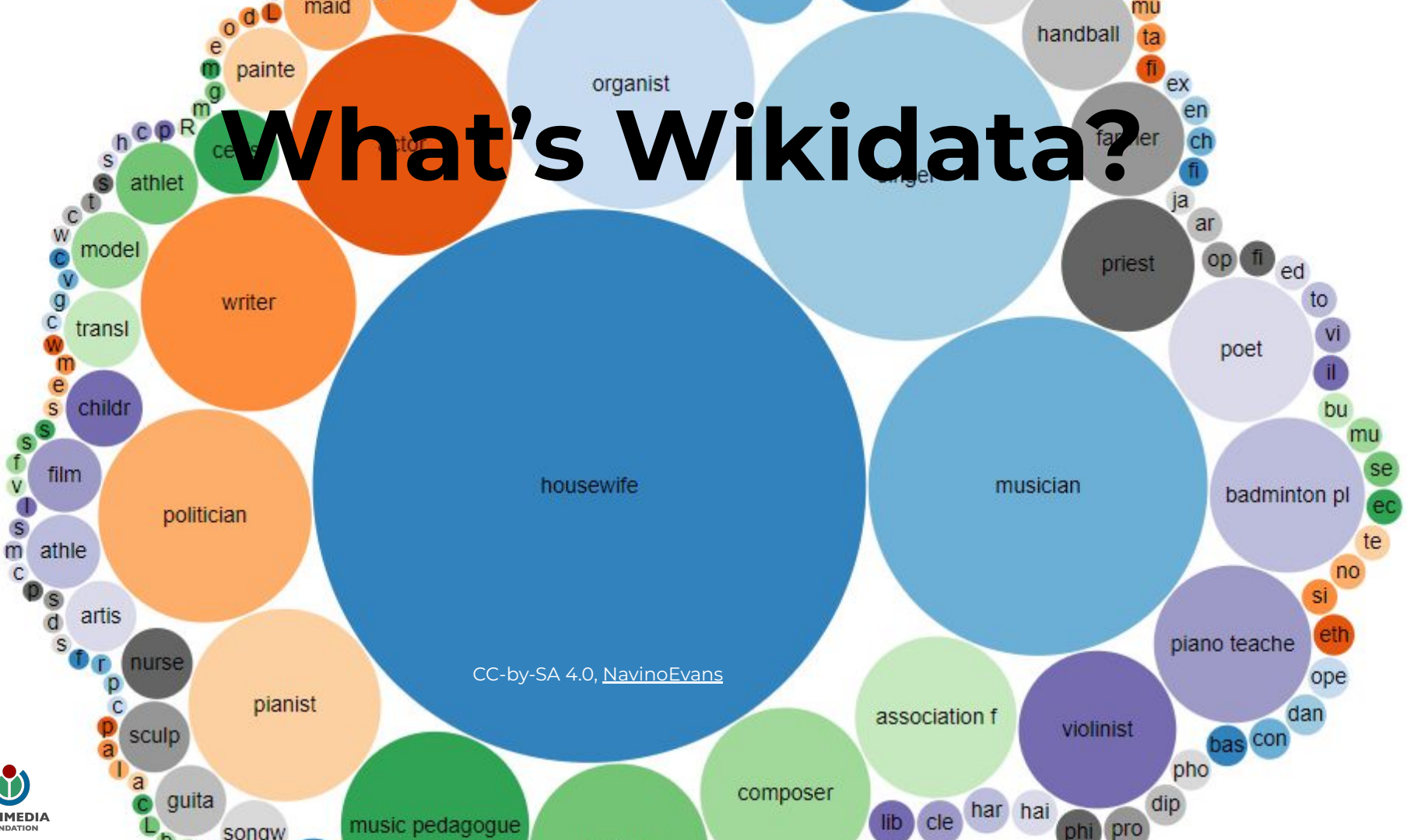
What we'll cover today

- Wikidata, what's that?
- The power of linked data through SPARQL queries
- Searching Wikipedia & Wikisource through Wikidata
- Adding missing information

Wikimedia projects



What's Wikidata?



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Wikidata is ... BIG!

~100M items

20k active editors

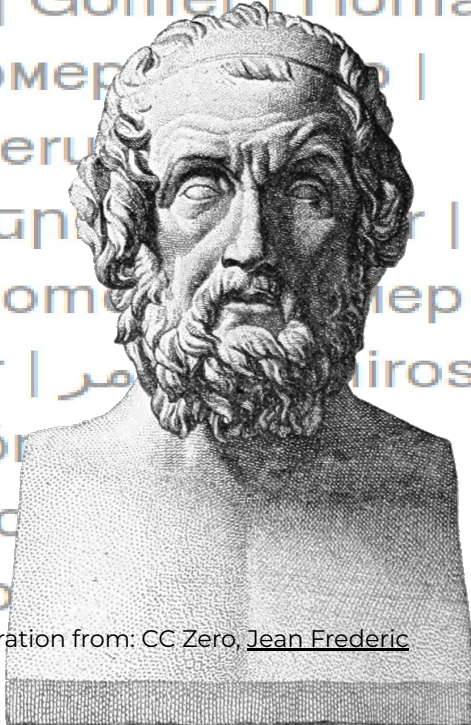
~300 languages

Wikidata is ... collaborative!



Photo by [Pierre-Selim Huard](#), CC BY 4.0
Inspiration from: [CC Zero](#), [Jean Frederic](#)

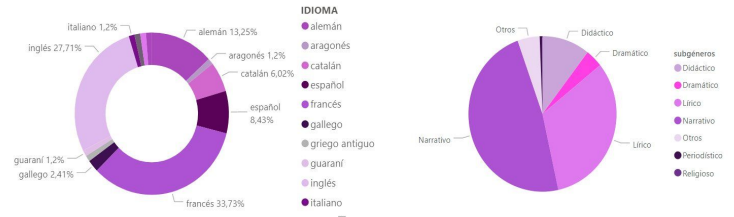
호머 | האמער | Homerus | Ὅμηρος | Homeros | Omer |
Pseudo-Homer | Omero. | Hoéimeéar | Homère | Homeros.
| Homer. | Hema | Homérosz | Ho-ma | Omero | Homeras |
Gomer. | Omir | Homéros | Homeérosz | Hóiméar | Homeri |
Pseudo-Omero | Homero | Homere | Gomer | Homa
| ホメロス | غومر | Ὅμηρος | هوميروس | হোমার | Гомер
Омир | হোমার | Ὅμηρος | هوميروس | Ὅμηρος | Omeru
Omêr | Homêros | 荷馬 | הומרוס | होमर | Հոմերոս
ホメーロス | ಹೊಮೆರೊಸ್ | homer | 호메로스 | Homero
| Houmero | ಹೊಮೆರೊಸ್ | Hómeros | Omèr | Homeros
| Hümer | هومر | హోమర్ | Хомер | โฮเมอรัส | Hómēros
האמער | Hozmaj | 荷马 | Гамэр | ਹੋਮਰ | Huc
Homeru | ହୋମେର | Umer | ಹೋಮರ್ | Homéro
آلاسکا | ميلر لندينق، آلاسکا | Ὅμηρος | ಹೊಮೆರೊಸ್



Inspiration from: CC Zero, [Jean Frederic](#)

free to (re)use

¿De dónde son?



histropedia Top 20 Timelines

histropedia.com



wikitrivia.tomjwatson.com

Heracitus
Pre-Socratic Greek philosopher

born

Song dynasty
Former empire in Eastern Asia

960

Phillis Wheatley
American poet

1753

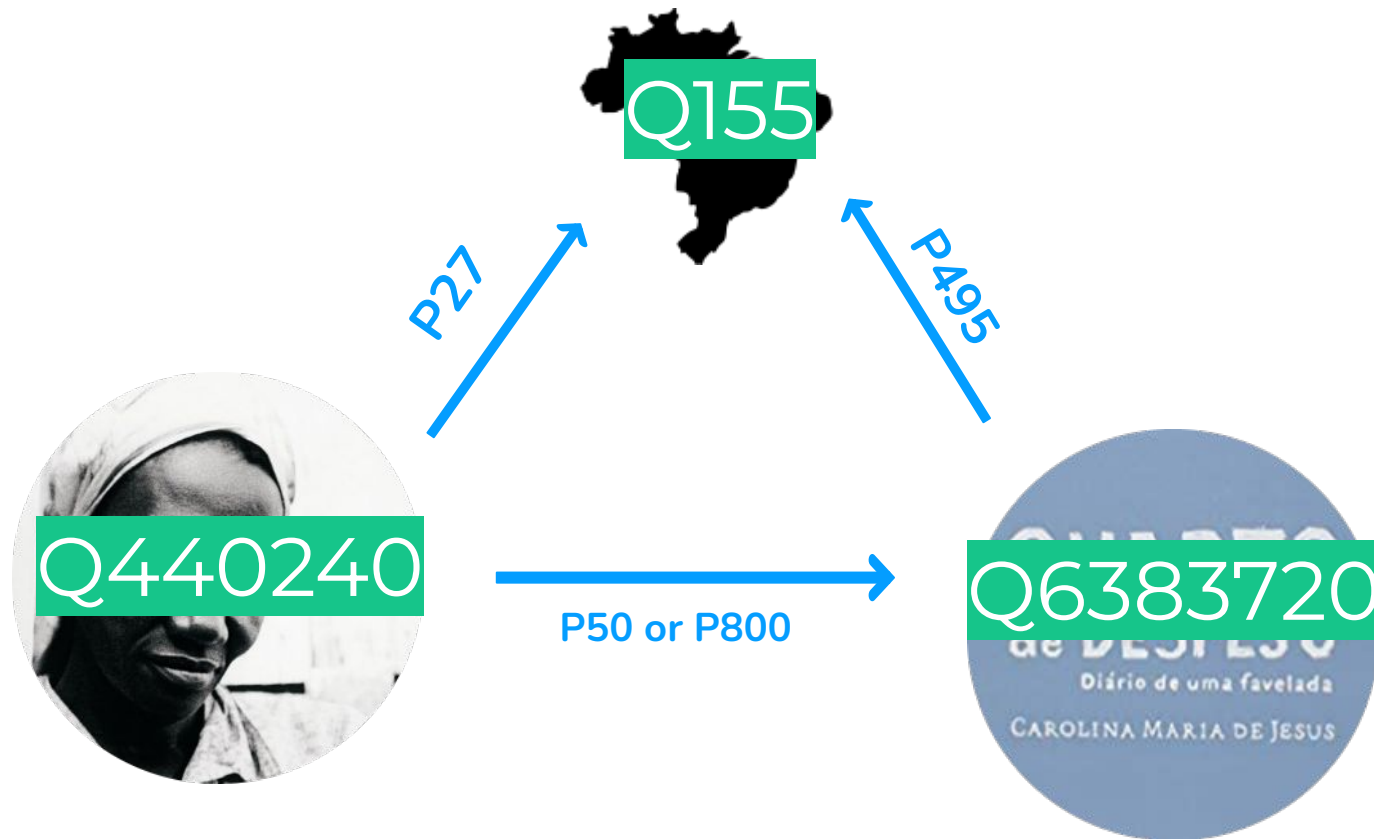
The Great Gatsby
Novel by F. Scott Fitzgerald

1925

semantic



semantic triples



common properties

Property	Quantity of item pages
cites work (P2860)	288930978
series ordinal (P1545)	167182203
author name string (P2093)	134448959
 instance of (P31)	109432142
stated in (P248)	90047832
retrieved (P813)	89233481
reference URL (P854)	68933878
PubMed ID (P698)	62839031
publication date (P577)	46503324
title (P1476)	46019097
published in (P1433)	39552048

www.wikidata.org/wiki/Wikidata:Database_reports/List_of_properties/1-1000

properties for

Work item properties [\[edit \]](#)

These properties are for the first item that represents a book (FRBR work level). They are mainly meant to be used for **items linked to Wikipedia pages**.

Works should be instances of [written work \(Q47461344\)](#) or one of its subclasses [↗](#).

Title	ID	Data type	Description	Examples	Inverse
instance of	P31	Item	instance of: that class of which this subject is a particular example and member; different from P279 (subclass of); for example: K2 is an instance of mountain; volcano is a subclass of mountain (and an instance of volcanic landform)	The Autobiography of Alice B. Toklas <i><instance of></i> written work	-
title	P1476	Monolingual text	original title and title: published name of a work, such as a newspaper article, a literary work, piece of music, a website, or a performance work	Diary of Anne Frank <i><title></i> Het Achterhuis	-
subtitle	P1680	Monolingual text	subtitle: for works, when the title is followed by a subtitle	Diary of Anne Frank <i><subtitle></i> Dagboekbrieven van 12 Juni 1942 – 1 Augustus 1944	-
author	P50	Item	author and writer: main creator(s) of a written work (use on works, not humans); use P2093 when Wikidata item is unknown or does not exist	Harry Potter and the Philosopher's Stone <i><author></i> J. K. Rowling	-
possible creator	P1779	Item	creator: for a creative work with considerable uncertainty about the author	Rampin Rider <i><possible creator></i> Rampin Master	-
contributor to the creative work or subject	P767	Item	contributor, session musician and coauthor: person or organization that contributed to a subject: co-creator of a creative work or subject	Discworld Noir <i><contributor to the creative work or subject></i> Terry Pratchett	contributed to creative work
editor	P98	Item	editor: person who checks and correct a work (such as a book, newspaper, academic journal, etc.) to comply with a rules of	Österreichisches Biographisches Lexikon 1815–1950 <i><editor></i>	-

www.wikidata.org/wiki/Wikidata:WikiProject_Books

external IDs for



Wikidata Query Service

Query Helper

Filter: instance of Wikidata property to identify books

Limit 100

```
1 #title: Wikidata properties to identify books
2 #author: Silvia Gutiérrez (@espejolento)
3 SELECT ?item ?itemLabel WHERE {
4   SERVICE wikibase:label
5     { bd:serviceParam wikibase:language
6       "[AUTO_LANGUAGE],en". }
7   ?item wdt:P31 wd:Q29547399.
8 }
9 LIMIT 100
```

77 results in 1025 ms

item	itemLabel
wd:P212	ISBN-13
wd:P243	OCLC control number
wd:P356	DOI
wd:P648	Open Library ID
wd:P668	GeneReviews ID
wd:P675	Google Books ID
wd:P957	ISBN-10

<https://w.wiki/6WcB>

The power of linked data

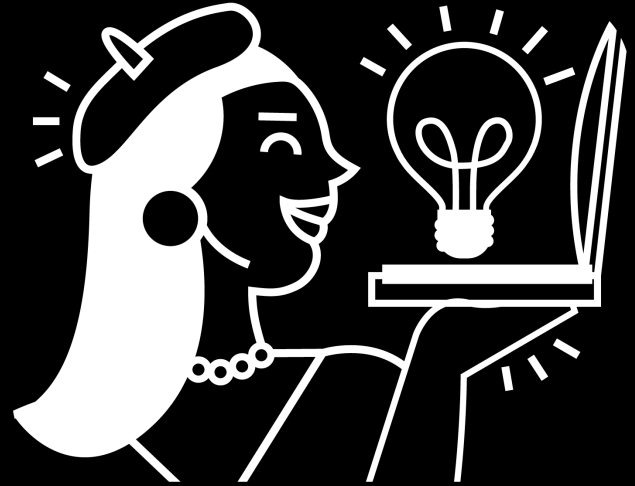
CC-by-SA 4.0, [NavinoEvans](#)

Let's create
our first query

query.wikidata.org/querybuilder



Let's examine
our first query
query.wikidata.org





- > Introduction
- ✓ Simple queries: Who, What, Which
 - ✓ The simplest query
 - [Basic SPARQL query](#)
 - Adding labels
 - Specifying label language
 - Autocompletion
 - Adding description
 - Exercise: simple query
 - > Retrieving statements values
 - > Adding match patterns
 - > Adding variables
 - > Instances and classes
 - > Data linked to values
 - > Qualifiers
- > Where queries
- > When queries
- > Modifying results
- How to continue

Films in the Star Wars Series

Here is your first SPARQL query. This simple query displays the films that are part of the Star Wars series.

```
1 #Star Wars Films
2 SELECT ?item
3 WHERE
4 {
5   ?item wdt:P179 wd:Q22092344.
6 }
```

wdqs-tutorial.toolforge.org

WDQS color coding

WDQS color codes certain SPARQL words, which helps to understand and to explain the SPARQL code:

- Grey: the first line of the query has a hashtag (#) followed by a grey text. This indicates a comment – something we write that does not affect the query itself. Everything after a # is a comment and ignored by WDQS, except certain patterns, which we will see in other sections.
- Red: the words SELECT and WHERE on lines 2 and 3 are shown in capital red letters. This is reserved for SPARQL syntax words, a kind of "command":
 - SELECT – here we state the names of the variables that will be returned and displayed by the query.
 - WHERE – here we provide the pattern to match with the data, i.e., define the conditions for finding the values for the variables in the SELECT clause, often in the forms of triples that reflect the Item-Property-Value structure of the database.

[Translate this page](#)

Other languages: [Bahasa Indonesia](#) [Bahasa Melayu](#) [British English](#) [Deutsch](#) **English** [Esperanto](#) [Nederlands](#) [Tiếng Việt](#) [Türkçe](#) [català](#) [dansk](#) [eesti](#) [español](#) [euskara](#) [français](#) [italiano](#) [lietuvių](#) [norsk bokmål](#) [polski](#) [português do Brasil](#) [svenska](#) [vèneto](#) [Ελληνικά](#) [беларуская \(тарашкевіца\)](#) [български](#) [русский](#) [српски / srpski](#) [українська](#) [հայերեն](#) [עברית](#) [العربية](#) [بهاس ملايو](#) [فارسی](#) [हिन्दी](#) [বাংলা](#) [中文](#) [日本語](#) [한국어](#)

Welcome to the Wikidata Query Service help portal

The place where your questions to the Wikidata Query Service are answered. Questions to Wikidata can be about pieces of knowledge in this world and their relationships. This can be used to use Wikidata as a knowledge base or generate lists for other Wikimedia projects, such as Wikipedia.


We also have documentation for advanced users that goes beyond the first steps. The Wikidata Query Service provides a SPARQL endpoint including a powerful Web-GUI. SPARQL (pronounced "sparkle") is an RDF query language, that is, a semantic query language for databases. With SPARQL, you can extract any kind of data, with a query composed of logical combinations of triples.

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

First steps

[A gentle introduction to the Wikidata Query Service](#) This introduction introduces you to the user interface of the Wikidata Query Service. You don't need to learn SPARQL to modify queries and display results. This gentle introduction is a good start if you want to start playing around.

Access the Query Service

query.wikidata.org  The user interface of the Wikidata Query Service.

[Request a query](#)

This is a page where Wikidata SPARQL queries can be requested from community members who will write them for you as

More experienced

[Example queries](#)

Example queries in SPARQL, for inspiration and as building blocks for your own queries.

[Queries of the week archive](#)

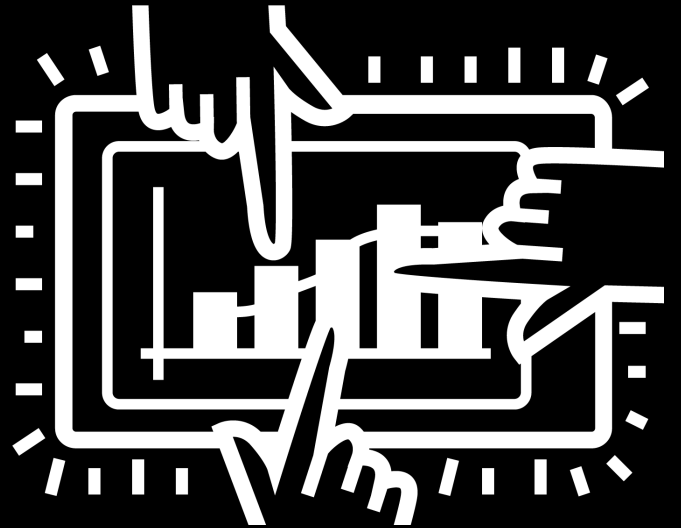
Queries from Wikidata status update weekly summaries

“Famous” literary works

<https://w.wiki/6WcU>



WIKIMEDIA
FOUNDATION

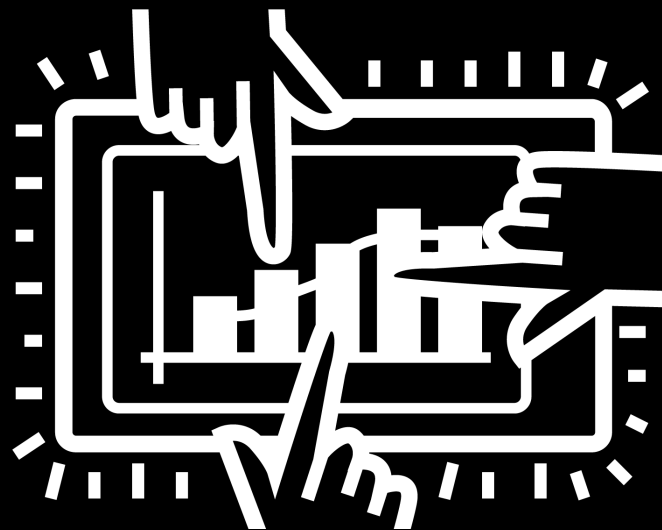


Books with a Gutenberg
ID written by women

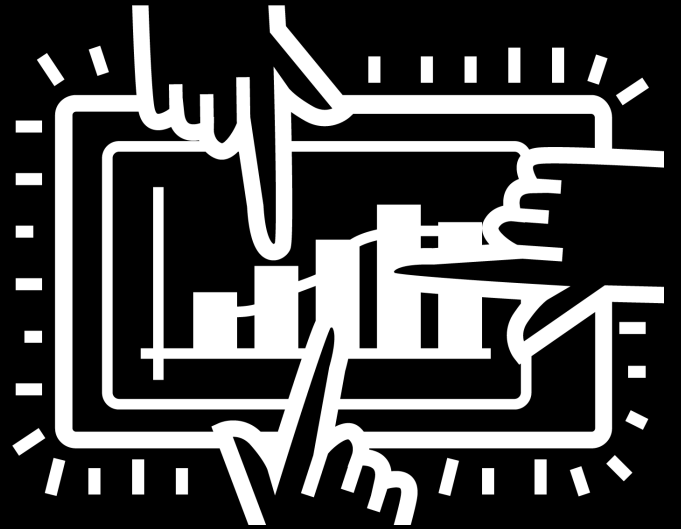
<https://w.wiki/6WcL>



WIKIMEDIA
FOUNDATION



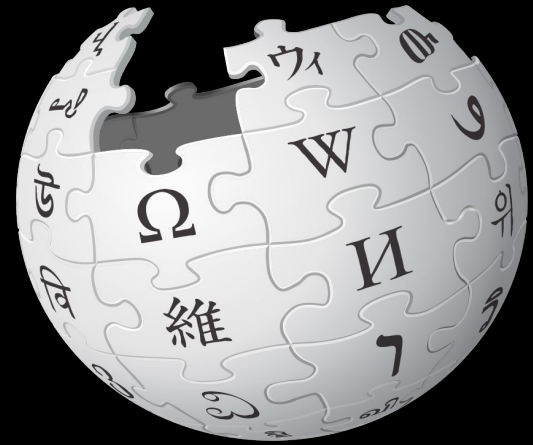
Literary works with a
“narrative place”
w.wiki/6WKK



Wikipedia & Wikisource via Wikidata

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Books from Ghanaian
authors without an
English **Wikipedia** article
w.wiki/6WJR



Women writers in
Wikisource
w.wiki/6WcZ



Adding what's missing

CC-by-SA 4.0, [NavinoEvans](#)

Some tips

Example: Amandla (1980)

1.

Get your models ready

A famous a work [Q480](#)

A related work [Q86752635](#) |

[Q16154159](#)

Your author: Miriam Tlali
(Q539214)

2.

Find references for properties you'll use

Publication date (P577): [1980](#)

Main subject (P180): [Soweto massacre](#)
(Q153081)

Form of creative work (P7937): [novel](#) (Q8261)

Narrative location (P840): [Soweto](#) (Q217426)
64368629

3.

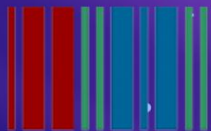
(Optional) get some external identifiers

Library thing ([P1085](#)): 5027596

OCLC Control Number (P243): [64368629](#)

VIAF ([P214](#)): [3687151656276408400001](#)

Goodreads work ID ([P8383](#)): 2120119 (go to
“[all editions](#)”)



WIKIDATA



汉语

Coming Soon!



Français



English



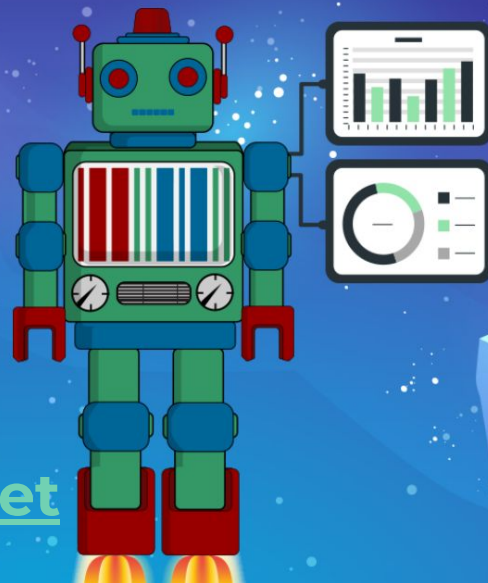
Español

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CURSO PARA PROFESIONALES
DE LA INFORMACIÓN

¡Haga clic aquí para comenzar!

www.learnwikidata.net





Thank you!

Contact me
silviaegt@wikimedia.org