Wikidata as a Linked Data Platform

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What we'll cover

- Quick intro to Wikidata
- Selected GLAM Wikidata activity
- Plans at UNC Chapel Hill Libraries

GLAM = galleries, libraries, archives, museums cultural heritage institutions

What is Wikidata?

*Wikidata is a **free and open knowledge base that can be read and edited by both humans and machines**. Wikidata acts as **central storage for the structured data** of its Wikimedia sister projects including Wikipedia, Wikivoyage, Wikisource, and others.*

*Wikidata also provides support to many other sites and services beyond just Wikimedia projects! The content of Wikidata is **available under a free license, exported using standard formats, and can be interlinked to other open data sets on the linked data web**. --Wikidata home page*

See also: Wikidata introduction

What about Wikibase?

Wikibase is the software application under Wikidata.

Wikipedia	<-	**MediaWiki**	->	UNC Libraries Staff Wiki
Wikidata	<-	**Wikibase**	->	(UNC Libraries Linked Data portal?)

You don't get very far into learning about Wikidata before you start hearing about Wikibase. This can be a little confusing.

Wikibase is a collection of applications and libraries for creating, managing and sharing structured data. It is an open source project and everyone is welcome to join in development. --Wikibase project home

Linked data lightning refresher

Classic linked data concept: TRIPLES

Subject	Predicate	Object
owi:297853	rdaw:P10256	lcsh:sh2008107935
Where the wild things are	has subject	Monsters–Fiction

The Wikidata version: STATEMENTS or CLAIMS

Item	Property	Value
Q13912	P921	Q276453
Where the wild things are	main subject	monster

owi : oclc work identifier rdaw: rda work property lcsh: library of congress subject heading

Items and Labels

Items are the things/concepts described.

Anyone can create an item.

Where the Wild Things Are (Q13912)

1963 children's picture book by Maurice Sendak   ✎edit

▾In more languages

Language	Label	Description	Also known as
English	Where the Wild Things Are	1963 children's picture book by Maurice Sendak	
French	Max et les Maximonstres	livre pour enfants de Maurice Sendak	

Multilingual

- Because I have my primary language set as English I see that as main label.
- Because I have French set as another lanuguage, I see that in my interface.

Very multilingual!

Language	Label	Description	Also known as
English	Where the Wild Things Are	1963 children's picture book by Maurice Sendak	
French	Max et les Maximonstres	livre pour enfants de Maurice Sendak	
Arabic	No label defined	كتاب من تأليف موريس سينداك	
Bulgarian	Където бродят дивите неща	No description defined	
Catalan	Allà on viuen els monstres	No description defined	
Danish	Villy Vilddyr	No description defined	
German	Wo die wilden Kerle wohnen	Bilderbuch von Maurice Sendak, 1963	Where the Wild Things Are
Canadian English	Where the Wild Things Are	No description defined	
British English	Where the Wild Things Are	No description defined	
Esperanto	Where the Wild Things Are	No description defined	
Spanish	Donde viven los monstruos	libro infantil de Maurice Sendak	
Persian	جایی که وحشی‌ها هستند	No description defined	
Finnish	Hassut hurjat hirviöt	No description defined	
Hebrew	ארץ יצורי הפרא	ספר מאת מוריס סנדק	
Italian	Nel paese dei mostri selvaggi	romanzo per ragazzi, scritto da Maurice

Italian	nel paese dei mostri selvaggi	romanzo per ragazzi, scritto da Maurice Sendak
Japanese	かいじゅうたちのいるところ	No description defined
Georgian	სადაც ურჩხულები ცხოვრობენ	No description defined
Korean	괴물들이 사는 나라	No description defined
Kyrgyz	Жапай заттар жашаган жер	No description defined
Norwegian Bokmål	Til huttetuenes land	No description defined
Dutch	Max en de Maximonsters	boek van Maurice Sendak
Polish	Where the Wild Things Are	No description defined
Portuguese	Where the Wild Things Are	No description defined

Description

Where the Wild Things Are (Q13912)
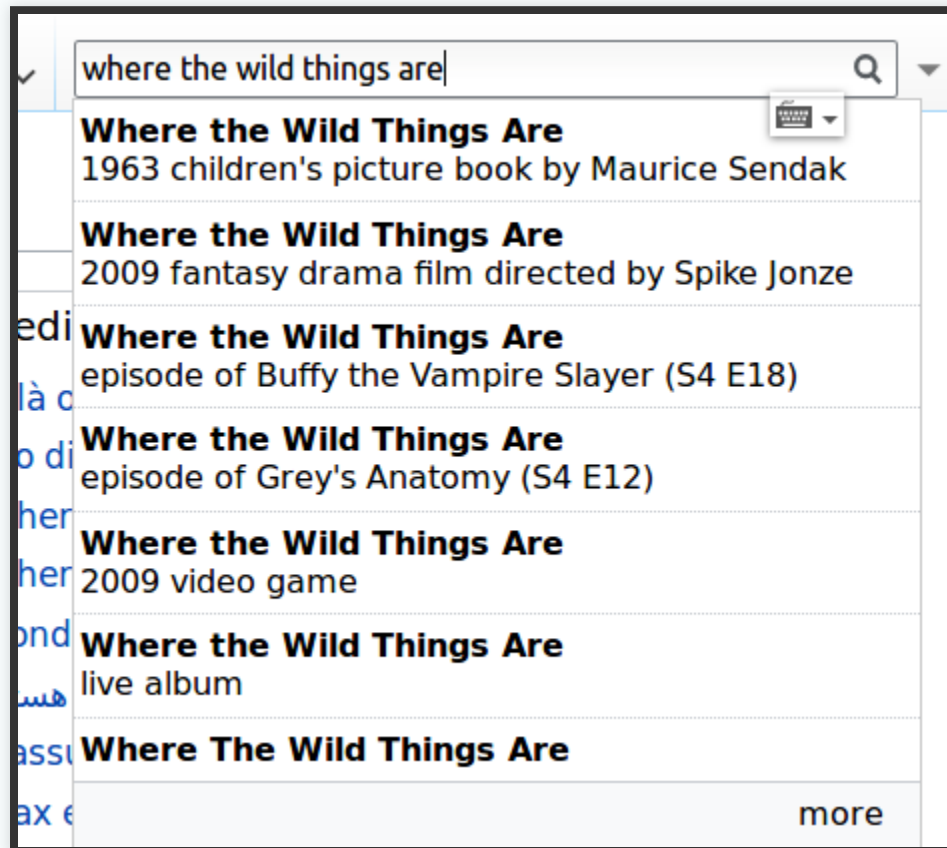
1963 children's picture book by Maurice Sendak ✎edit

▾ In more languages

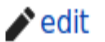| Language	Label	Description	Also known as
English	Where the Wild Things Are	1963 children's picture book by Maurice Sendak	
French	Max et les Maximonstres	livre pour enfants de Maurice Sendak	

All entered languages

Use of description

Alias

Greek deity (Q22989102)

No description defined   ✏ edit
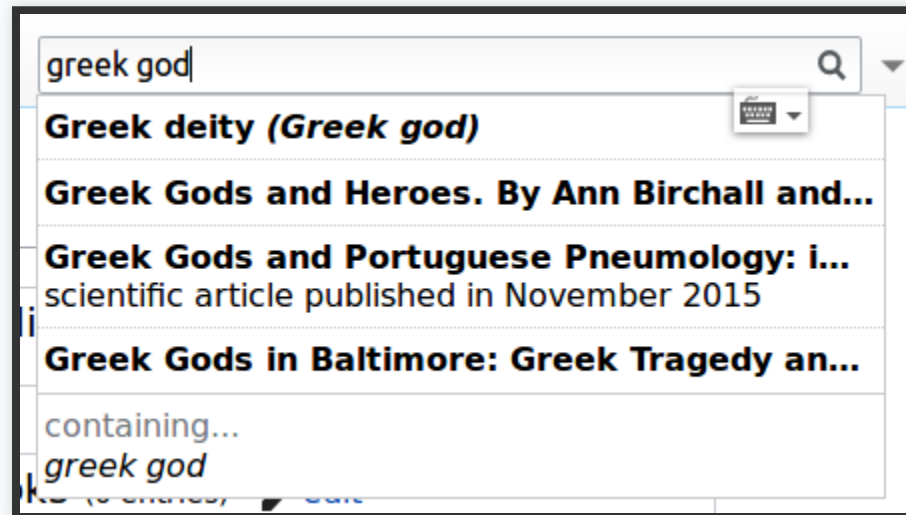Greek god

▾ In more languages

Language	Label	Description	Also known as
English	Greek deity	No description defined	Greek god
French	divinité grecque	No description defined	
Catalan	deïtat de la mitologia grega	No description defined	
Danish	græsk gud	No description defined	
German	griechische Gottheit	No description defined	
Greek	Θεότητα της ελληνικής μυθολογίας	No description defined	
Esperanto	greka dio	No description defined	
Spanish	deidad de la mitología griega	No description defined	deidad griega dios de la mitología griega diosa de la mitología griega dios griego diosa griega

divinidad griega
deidad de la mitologia griega
dios de la mitologia griega
diosa de la mitologia griega

Hungarian	görög istenség	No description defined	
Armenian	Աստված Հունական դիցաբանությունից	No description defined	
Italian	divinità greca	No description defined	dio della mitologia greca dea della mitologia greca

Use of alias

Statements
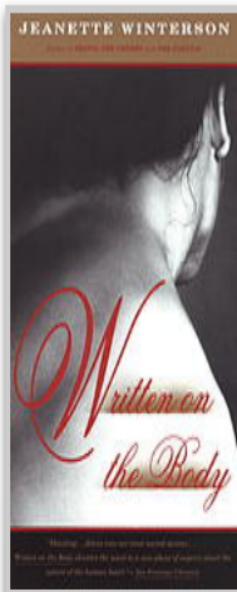
All of the following are **statements**:

- Main statements
- Identifiers
- Sitelinks

Look at item: Jeanette Winterson (Q233584)

- references of different types (look under date of birth)
- qualifiers (look under award received)

Identifiers+ – VIAF links back!

Winterson, Jeanette, 1959-....

Winterson, Jeanette

Jeanette Winterson English writer

וינטרסון, ג'נט, 1959-

Уинтерсон, Д. 1959- Дженет

VIAF ID: 4961254 (Personal)
Permalink: http://viaf.org/viaf/4961254

Preferred Forms

100 0 _ ‡a Jeanette Winterson ‡c English writer

100 1 _ ‡a WINTERSON, Jeanette

200 _ 1 ‡a Winterson ‡b Jeanette ‡f 1959-

200 _ | ‡a Winterson ‡b Jeanette ‡f 1959-....

100 1 _ ‡a Winterson, Jeanette

Properties

Properties describe the relationships between items.

New properties must go through a proposal process. (See all open proposals)

Look at property: author (P50)

- Data type
- Constraints

Discussion and history

View item for: book (Q571)

Query Service (SPARQL)

https://query.wikidata.org/

Example: Instance of *work* (or any of its subclasses) where author is *Jeanette Winterson*

Check out the examples and the help!

The ecosystem: Reasonator

Nicer views of Wikidata

Reasonator view for Jeanette Winterson

Jeanette Winterson (Q233584)

Джанет Винтерсон | Винтерсон, Джанет | Винтерсон, Жанет | Винтерсон Жанет | Жанет Винтерсон | Уинтерсон | Джанет Уинтерсон | Винтерсон Ж. | Уинтерсон Джанет | Винтерсон | Jeannette Winterson | Winterson | Dženet Vinterson | ג'נט ווינטרסון | 자넷 윈트손 | 재닛 윈터슨 | ジャネット ウィンタースン | ジャネット ウィンターソン | ジャネット(ウィンターソン, ジャネット) ウィンターソン | 珍妮特·温特森 | 珍妮特·温特森 | Уинтерсон, Джанет | ジャネット·ウィンターソン | جانيت وينترسون | جنت وينترسون | ג'נט ווינטרסון | Jeanette Wintersonová | جانيت وينترسون | 지넷 윈터슨 | Dženeta Vintersone

English writer

Jeanette Winterson is a British writer, screenwriter, novelist, journalist, author, science fiction writer, short story writer, and film producer.

She was born on August 27, 1959 in Manchester.

She studied at St Catherine's College and Accrington and Rossendale College. Her field of work includes novel.

Other properties	⌄

genre	novel narrative text, normally of a substantial length and in the form of prose describing a fictional and sequential story
nominated for	British Academy Television Award for Best Drama Series récompense de la télévision britannique

Download unsupported media file

External sites	⌄

for work : Oranges Are Not the Only Fruit

Lambda Literary Award for Lesbian Fiction
point in time : 1993

Lambda Literary Award for Lesbian Fiction
point in time : 2000

Lambda Literary Award for Lesbian Fiction
point in time : 2005

Carnegie Medal annual award for writing a children's book published in the U.K.
point in time : 2007

Carnegie Medal annual award for writing a children's book published in the U.K.
point in time : 2011

languages spoken, written or signed	English West Germanic language originating in England with linguistic roots in French, German and Vulgar Latin
award received	Officer of the Order of the British Empire award, rank of the Order of the British Empire
	John Llewellyn Rhys Prize award

official website

External sources ▼

Babelio author	20603
BBC Things	a974ac20-7d43-4001-9098-ccc35bd270f9
BIBSYS	90149390
BNE	XX1046550
BnF	121095005
Canadiana Authorities	0060A1704
CANTIC-ID	a11423870
Cinemagia actor	30139
CiNii author ID	DA03452406
CONOR	5946723
DBC author	87097969095232

The ecosystem: Reasonator

Reasonator view for Jeanette Winterson

From related items	⌄
winner	E. M. Forster Award британская литературная премия 　　point in time : 1990
	St. Louis Literary Award 　　point in time : 2014
creator	Lighthousekeeping 2004 novel, by Jeannette Winterson
	Oranges Are Not the Only Fruit television series
author	The Weight: The Myth of Atlas and Heracles
	Lighthousekeeping 2004 novel, by Jeannette Winterson
	Arte e menzogne book by Jeanette Winterson
	The Stone Gods novel
	Sexing the Cherry novel
	Gut Symmetries 1997 novel
	Oranges Are Not the Only Fruit book by Jeanette Winterson
	The World and Other Places collection of short stories

screenwriter	Great Moments in Aviation 1993 film by Beeban Kidron
influenced by	♂ Christopher Barzak American writer
category combines topics	Category:Novels by Jeanette Winterson Wikimedia category

Timeline ⌄

1993

❮

award received: Lambda Literary Award for Lesbian Fiction

❯

1991

nominated for:
British Academy
Television Award

1993

nominated for:
Lambda Literary
Award for

The ecosystem: Wikidata Graph Builder

Visual way to explore relationships/ontology in Wikidata

Class hierarchy for "book" (Q571)

Mode	Language
Forward ▼	en

Root Item

book

Traversal Property

subclass of

Iterations	Limit
5	5

Graph nodes: product, item of collection or exhibition, physical object, work, publication, book, collectable, mass media, document, object, communication medium, text
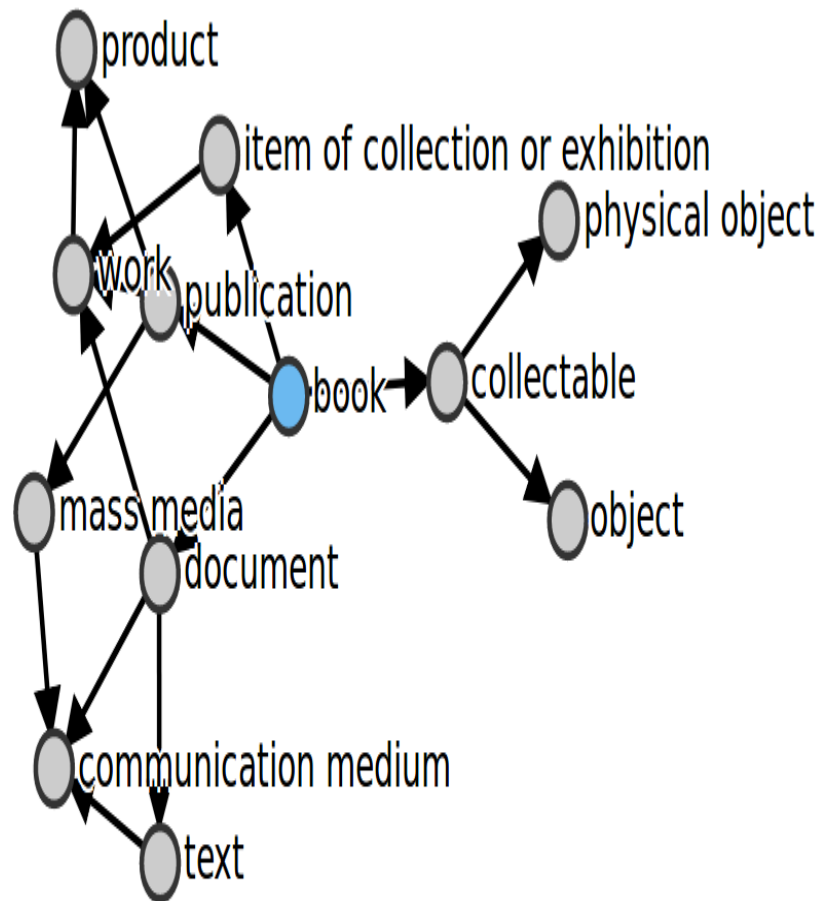
19 . 1

The ecosystem: SQID

SQID Item Browser entry for "book" (Q571)

SQID Property Browser – look at properties used for class "book (Q571)"

Get started: The Distributed Game

Easy ways to start editing Wikidata

- Missing birthdate
- Depiction
- Items without descriptions
- many more!

Get started: Mix'n'match

Hundreds of vocabularies being reconciled with Wikidata

Interface to:

- verify automatic matches
- simplify process of creating new matches

Example: JSTOR topics vocabulary

Selected others of interest:

- LoC names, LoC Relators
- ORCID
- Selected VIAF entries
- SNAC person ids (Social Networks Archival Context) 99.9% complete!
- OpenDOAR

The big time: Wikidata at scale

- OpenRefine
- QuickStatements
- PetScan

GLAM and Wikidata? – General

- Allison-Cassin, Stacy and Scott, Dan. (May 2018) Wikidata: a platform for your library's linked open data. Code4Lib Journal, Issue 40.
- ARL draft white paper on Wikimedia and Linked Open Data open for comment in Fall 2018. (about | draft)
- Wikidata + GLAM Facebook group
- Wikimedia and Libraries User Group

Projects

Wikidata projects working out data models, best practices, data enrichment in certain areas, including:

- WikiCite
- Books
- Libraries
- Archival description
- Indexes
- Cultural heritage
- Events (including conferences... citation implications!)

Applications

- Scholia - interface to the scholarly bibliographic data in Wikidata
- University of Wisconsin-Madison Libraries catalog integration - "Information from the Web" section added to end of record view
- Laurentian University Library catalog integration

GLAM Wikibase

- OCLC's Project Passage (overview)
- Europeana's EAGLE Project
- Rhizome plans to migrate its ArtBase

Project Passage: a prototype to demonstrate the value of linked data for improving resource-description workflows in libraries

- Reconciliation service – to connect legacy bibliographic information to linked data entities
- An editor service – to view, create and edit linked data descriptions and relationships

NCSU is a partner

EAGLE: authoritative multilingual source of translations of ancient Greek and Roman inscriptions

At UNC Chapel Hill Libraries

On the table:

- model the Libraries in Wikidata
  - University Libraries at the University of North Carolina at Chapel Hill (Q49060650)
  - Wilson Special Collections Library (Q14708020)
  - others?
- addition of archives at (P485) property to Wikidata items for people and organizations whose papers or correspondence we hold

Other ideas:

- create items for unique archival collections
- representing our faculty and publications in Wikidata (?)
- edit-a-thons to reconcile vocabularies we care about
- experiment with leveraging Wikidata in our systems
- NC Metadata Connect name authority project (possible use of Wikibase)

Resources

- Wikidata educational resources
- Wikidata training

This presentation heavily cribbed from:

- Wikidata in one page
- ARL draft white paper on Wikidata in Libraries