Wikidata for Humanists

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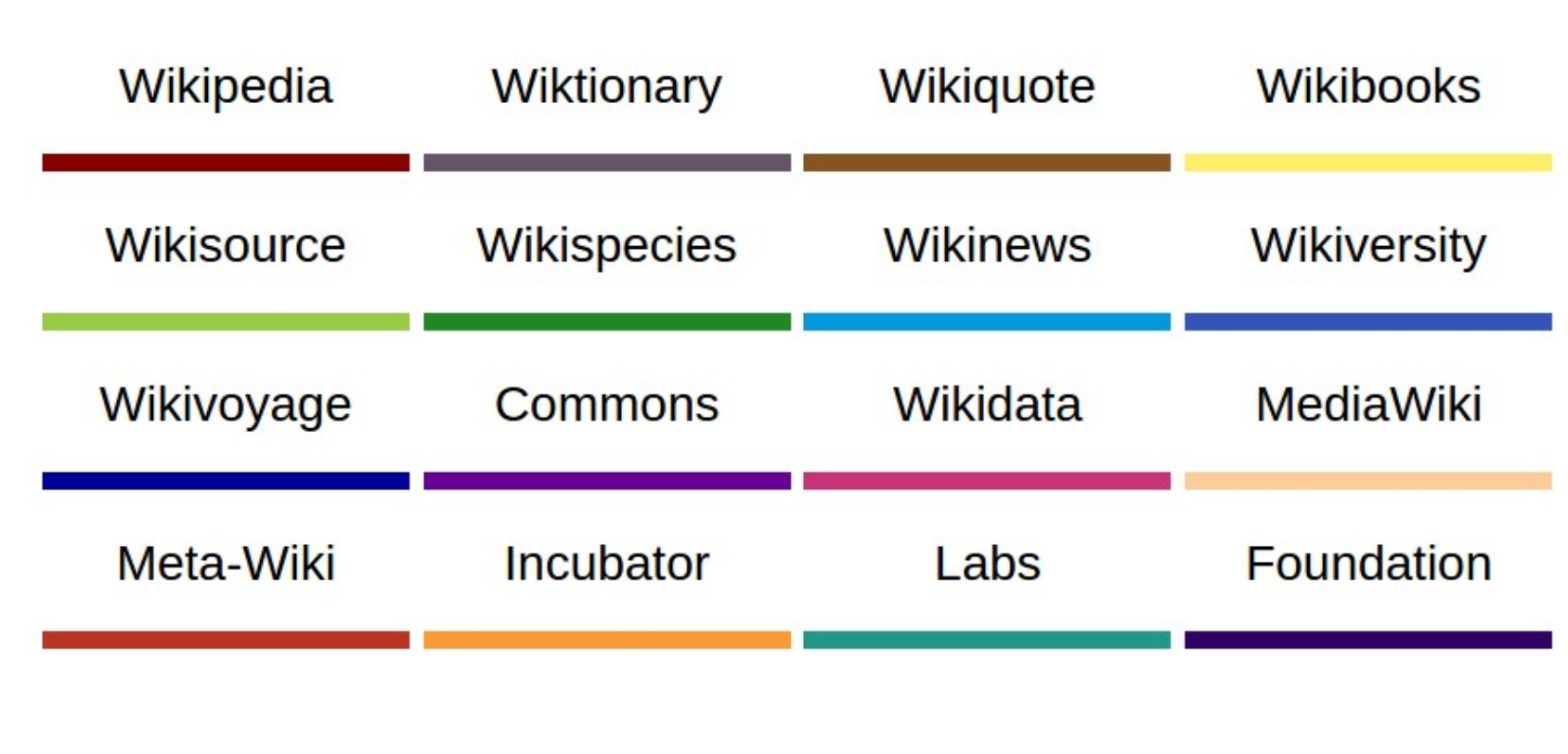
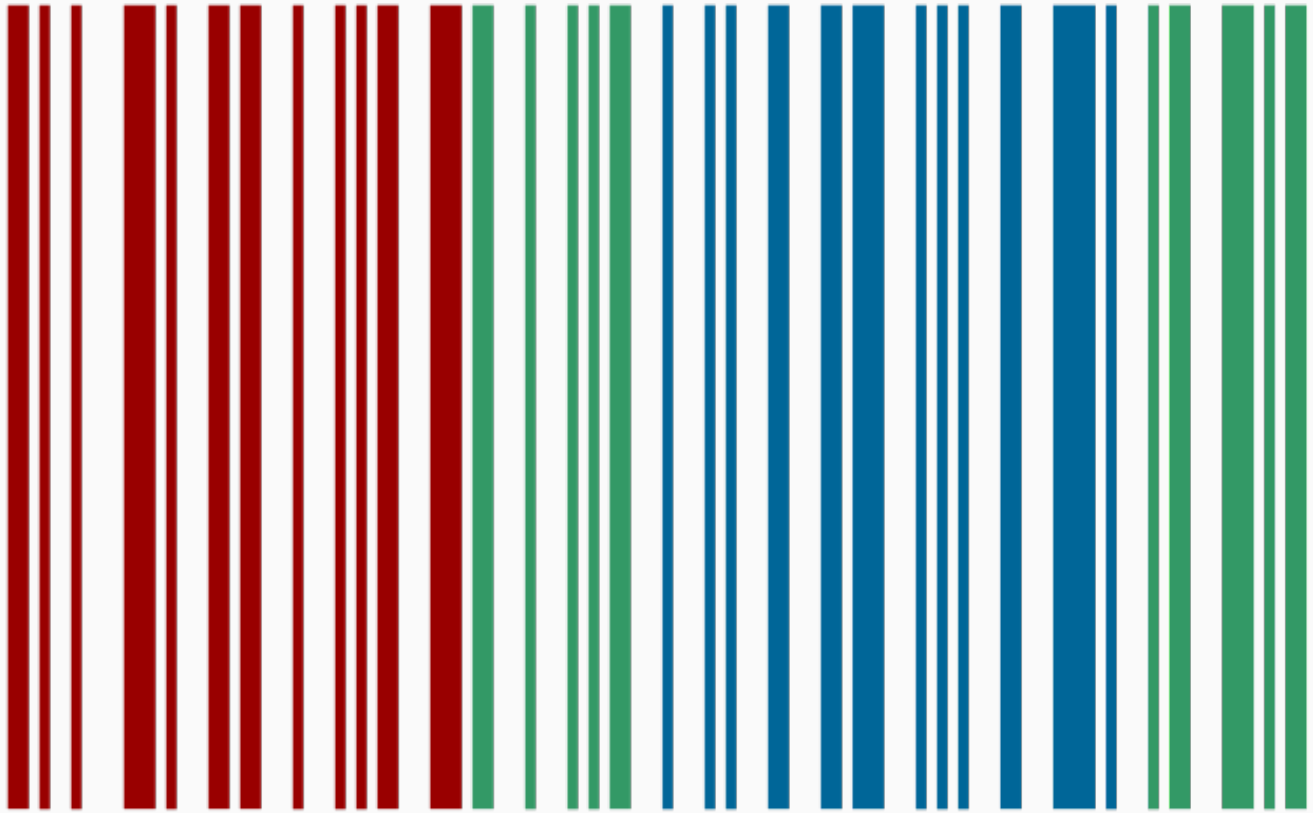
Wikimedia Foundation Projects




WIKIDATA

- I will demonstrate how Wikidata can help us to answer questions about materials in our own collections/ projects.

This knowledge base of structured data is:

- Machine-readable linked open data
- Editable by anyone with Internet access
- Designed to support both human and algorithmic curation
- Fully-versioned wiki

Wikidata Stats as of Dec, 2019

- over 22,600 active editors per month
- over 70 million items have been created
- more than 250 bots

Items, properties, unique identifiers

Item | Discussion

Isabella Beeton (Q287665)

English journalist, publisher and writer
Mrs Beeton | Isabella Mary Beeton | Isabella Mayson | Isabella Mary Mayson

edit

▾ In more languages
Configure

Language	Label	Description	Also known as
English	Isabella Beeton	English journalist, publisher and writer	Mrs Beeton Isabella Mary Beeton Isabella Mayson Isabella Mary Mayson
French	Isabella Beeton	No description defined	Mrs Beeton
German	Isabella Beeton	englische Kochbuchautorin (1836-1865)	Mrs Beeton
Scots	No label defined	No description defined	

All entered languages

Statements

instance of — human — edit
▸ 1 reference
+ add value

image — edit

Isabella Beeton, by Maull & Polyblank.jpg

Wikipedia (14 entries) edit

ar	إيزابيلا بيتون
de	Isabella Beeton
en	Isabella Beeton
es	Isabella Beeton
fi	Isabella Beeton
fr	Isabella Beeton
he	איזבלה ביטון
it	Isabella Beeton
ja	イザベラ・ビートン
pl	Mrs Beeton
ru	Битон, Изабелла
simple	Mrs Beeton
sv	Isabella Beeton
uk	Ізабелла Бітон

Wikibooks (0 entries) edit

Wikinews (0 entries) edit

Wikiquote (0 entries) edit

Wikisource (1 entry) edit
en Author:Isabella Mary Beeton

Wikiversity (0 entries) edit

Wikivoyage (0 entries) edit

Wiktionary (0 entries) edit

How Can We Use Wikidata?

- Additional pathways into our projects
- Crosswalk between authorities
- Public SPARQL endpoint for queries

Finding Useful Data

- SPARQL
- Gentle Introduction to Wikidata Query Service
- Let's explore queries already written!

Hey Wikidata…

- Please show me portraits of people that include cats
- Try this query!

Using SPARQL to make a map

- Map of the locations of all paintings by Johannes Vermeer with an image

Reading Lists

- Works on the Women's + Gender History Digital Humanities list

Making data-powered lists

- List of poems by Emily Dickinson

Using SPARQL to make a bar chart

- Bar chart of paintings produced per year by Piet Mondrian

Using SPARQL to make a network graph

- Characters in the Marvel Universe

Using SPARQL to create image grids

- Women authors born between 1800-1900 who have a TroveID and an image

Useful Tools

- Find QIDs for items: search box
- Find PIDs for properties: Propbrowse Tool or Summary Table for Properties
- Find additional tools: Tool Labs

WikiProjects

- A WikiProject is a group of contributors who want to work together as a team to improve Wikidata.
- Cultural WikiProjects
- Often provide an overview and relevant properties or data models

Wikidata for Cultural Heritage Buzz

- LoC now using WD authority data
- ARL white paper on Wikidata
- OCLC's Creating Library Linked Data with Wikibase
- Monthly collection of articles, tools, etc related to cultural heritage

ScienceStories Collaboration

- Kenneth Seals-Nutt is the software engineer who built Science Stories
- We began collaborating on Science Stories in October, 2017

Yale University community

- Department of Computer Science
- Yale University Library
- Manuscripts and Archives
- Yale Peabody Museum
- Yale Center for British Art

Gender Gap in Science

When Will the Gender Gap in Science Disappear?

A new study estimates that it will take 16 years for women and men to publish papers in equal numbers. For physics, it will take 258.

ED YONG | APR 19, 2018 | SCIENCE

Figure 1: Link to article in The Atlantic from April 19, 2018

Gender Gap in Wikidata

Global Gender Gap

Total	Females	% Females	Gap	Males	% Males
3,658,572	652,826	17.8 %		3,005,307	82.1 %

Figure 2: Source: https://denelezh.dicare.org/gender-gap.php

Metadata from different collections

V • T • E **Yale University** [hide]

People	**Namesake:** Elihu Yale • **President:** Peter Salovey (predecessors) • **Provost:** Ben Polak • Faculty • Sterling Professors • People list
Schools	**Undergraduate:** Yale College • **Graduate:** Graduate School of Arts & Sciences • **Professional:** Architecture • Art • Divinity • Drama • Engineering & Applied Science • Forestry & Environmental Studies • Law • Management • Medicine • Music • Nursing • Public Health • Institute of Sacred Music • **Defunct:** Sheffield Scientific School
Campus	Connecticut Hall • Old Campus • Memorial Quadrangle • Harkness Tower • Hewitt Quadrangle • Hillhouse Avenue • Science Hill • Yale-Myers Forest • Horchow Hall • Steinbach Hall • Edward P. Evans Hall
Residential colleges	Berkeley • Branford • Davenport • Ezra Stiles • Jonathan Edwards • Franklin • Hopper (formerly Calhoun) • Morse • Pauli Murray • Pierson • Saybrook • Silliman • Timothy Dwight • Trumbull
Library and museums	Yale University Library • Sterling Memorial Library • Beinecke Rare Book & Manuscript Library • Harvey Cushing/John Hay Whitney Medical Library • Lillian Goldman Law Library • Bass Library • Lewis Walpole Library • Peabody Museum of Natural History • Yale University Art Gallery • Yale Center for British Art • Collection of Musical Instruments
Research centers	Child Study Center • Cowles Foundation • Haskins Laboratories • Human Relations Area Files • MacMillan Center • Rudd Center • Yale Cancer Center
Athletics	**Team:** Yale Bulldogs • **Mascot:** Handsome Dan • **Arenas:** Yale Bowl (football) • Ingalls Rink (hockey) • Yale Golf Course • Yale Field (baseball) • Reese Stadium (soccer and lacrosse) • Payne Whitney Gymnasium • **Rivalries:** Harvard–Yale Regatta • Harvard–Yale football rivalry
International	**Gruber Foundation** • Jackson Institute for Global Affairs • Yale World Fellows • Paul Mellon Centre for Studies in British Art • Yale-NUS College
Related	In popular culture

Category • Commons • Wikinews

Figure 3: https://en.wikipedia.org/wiki/Template:Yale

Wikidata

- Inspectable, free-software infrastructure [3]
- First public read-write GUI for the semantic web [1, 2]
- Content license is CC0
- Machine-actionable linked open data
- FAIR data

Pathways back to our collections

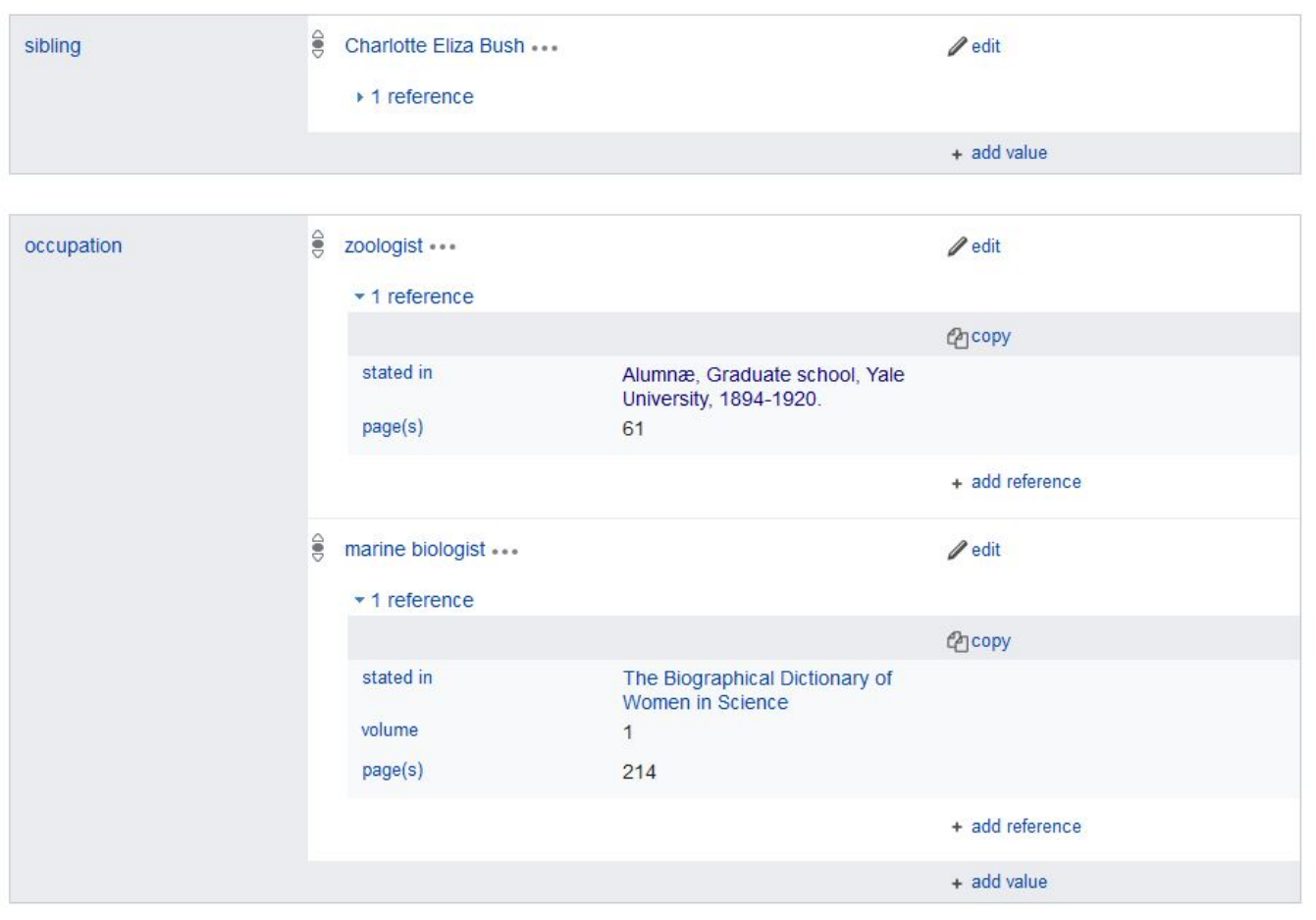


Figure 4: Sourcing claims to print reference materials

Creating a Front-end App

- Reuse data from multiple items
- Present specific views of Wikidata data
- Customize the UI for use cases
- Encourage users to explore your data

Audio Visual Materials

- Combine data from Wikidata with materials from institutional collections
- Present Wikimedia Commons material as IIIF

Cataloging and Description

- Our institutions have already created documentation for our collection materials
- Opportunities to reuse descriptions and enrich them by combining with LOD

International Image Interoperability Framework

- Open API specifications
- Enables interoperability of digital assets across institutions
- Widely-adopted by cultural heritage institutions

Demo of Science Stories

Learn more about Science Stories

- Science Stories site
- Wikidata project space
- Github repository

Exploring Wikidata

- Learn how to edit https://www.wikidata.org/wiki/Wikidata:Introduction
- Wikidata: The Game http://tools.wmflabs.org/wikidata-game/
- Example SPARQL queries https://www.wikidata.org/wiki/Wikidata:SPARQL_query_service/queries/examples

Frame Title

Thank you!

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