

Libraries Wiki Projects

CIMC Meeting
Sept 15, 2021

bit.ly/CIMC202109LibWD

Jackie Shieh
Descriptive Data Management Librarian



Smithsonian
Libraries and Archives

Topics

- Wiki platform overview
- Smithsonian Wikimedia projects
- Wikidata & Wikibase
- Libraries Wikidata projects
- SI Wikibase pilot

Wiki platform

Wiki: What is it?

- Wiki – a collaborative platform for writing and publishing via a user agent, e.g., browser
- Wikipedia – a collaboratively edited, multilingual, free Internet encyclopedia supported by the non-profit Wikimedia Foundation
- ***Wikidata*** – a global database (*repository*), hosting structured data in triples
- ***Triple statement*** – "this" "is" "that" (subject item (Q#)—property (P#)—object item (Q#))
- ***Wikibase*** – a software that drives Wikidata, which supports structured data
- ***Data modeling*** – analyze data requirements to support logic, structure, discoverability, context, etc.

Wikimedia family



Open source wiki software

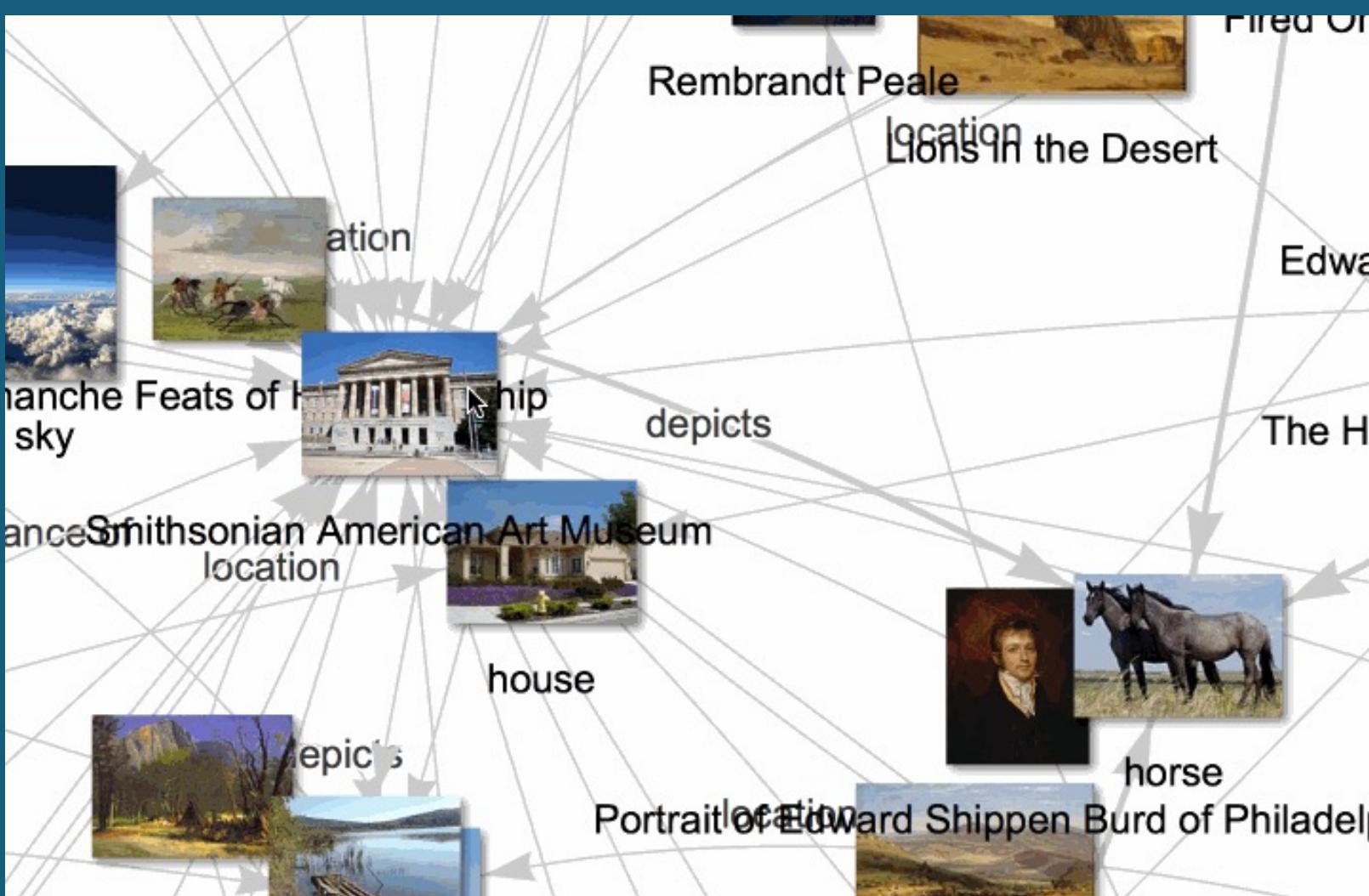


meta.wikimedia.org/wiki/Wikimedia_movement#/media/File:Wikimedia_logo_family_complete-2021.svg





Smithsonian & Wiki projects



en.wikipedia.org/wiki/Wikipedia:GLAM/Smithsonian_Institution/Open_Access



Smithsonian *Libraries and Archives*

Sample Smithsonian activities (to 2021)

WISDOM

Knowledge graphs for visualizing Smithsonian collections in Wikidata
Support for Wikimedia programming - referring experts for indigenous peoples day programming

KNOWLEDGE

Scholarly analysis of Wikipedia article from curators and experts (Dr. Karen Lemmey, SAAM pictured)
Smithsonian Libraries-Wikibase project linked open data connections for libraries

INFORMATION

AWHI: Because of Her Story: The Funk List
Creating work lists of notable women to add to Wikipedia - womenshistory.si.edu
Edit-a-thons, meetups, article drives with Wikimedia community

DATA

Smithsonian Open Access media files (3.2 mln +)
www.si.edu/openaccess
Authority control records and metadata for Wikidata and Commons uploaded



youtube.com/embed/JqIQ-vp5Zn0



Online encyclopedia, a free content, multilingual online encyclopedia contributed by a community of volunteer on an open collaboration, wiki-based editing system, and supported by Wikidata



commons.wikimedia.org

a **media repository**, of freely available and reusable media files, in all languages, supporting all Wikimedia projects, e.g., Wikipedia, Wikivoyage, Wikisource, Wikiquote, Wiktionary, Wikinews, Wikibooks, and Wikispecies



To collect world's knowledge in a structured manner to benefit all who seek knowledge

data repository that is open, free, collaborative, and multilingual, which collects structured data to support Wikipedia, Wikimedia Commons, and many other Wiki projects

item	property	value
Marie Curie	field of work	chemistry
Q7186	P101	Q2329

an **online digital library** of
multidisciplinary open-content
ebook library in 72 languages,
over 500K English texts
among others, comics, and
audio books

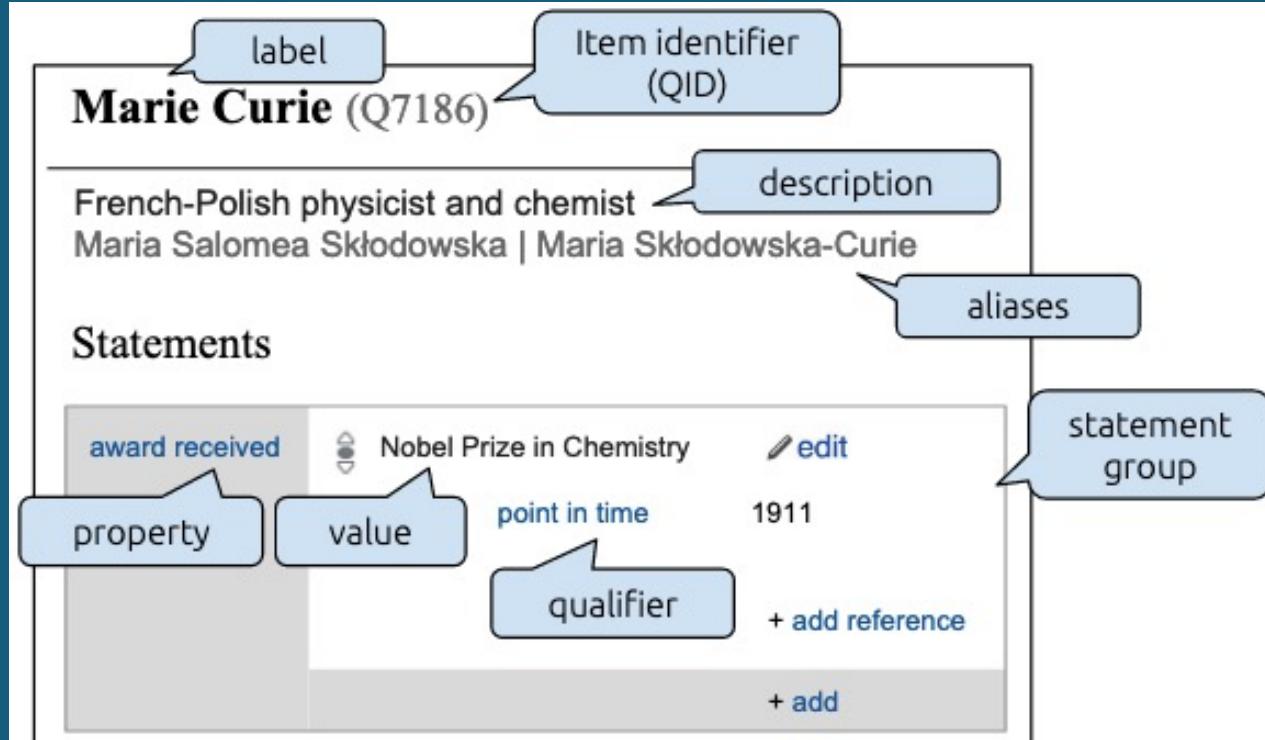


wikisource.org

Wikidata

as a platform and structured data source

Wikidata: anatomy and uses



wikidata.org/wiki/WD:1

- Identifiers clearing house
- A repository connecting facts about people, places, things, and concepts
- A host for data reuse in other projects

Entity relationship



Man from the farthest past, by Bishop, Charles Greeley Abbot Ales Hrdlicka

Smithsonian Libraries and Archives

Object Details

Author

Bishop, Carl Whiting

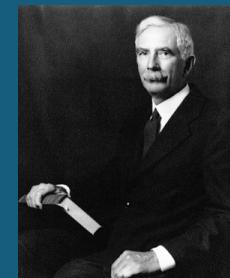
Abbot, C. G (Charles Greeley) 1872-1973

Hrdlička, Aleš 1869-1943

1930

si.edu/object/siris_sil_23492

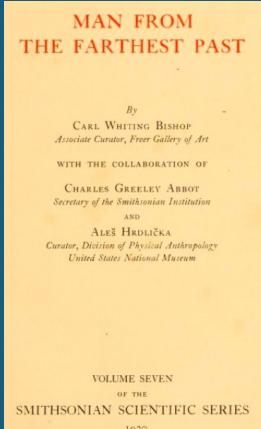
Author:	Bishop, Carl Whiting, 1881-1942 author
Title:	Man from the farthest past / by Carl Whiting Bishop ... with the collaboration of Charles Greeley Abbot ... and Aleš Hrdlička
Publisher:	[New York] [Smithsonian Institution series, Incorporated] 1930
Description:	6 preliminary leaves, iii, 375 pages color frontispiece, illustrations (including map) 100 plates (some color) on 65 leaves 25 cm
Series:	Smith. Sci. Seri. ; -- v. 7
Notes:	On cover: Patrons edition One of the plates accompanied by guard sheet with descriptive letterpress
Bibliography Note:	Includes bibliographical references (pages 352-358)
Subject:	Anthropology Prehistoric peoples Civilization -- History Anthropology Civilization Prehistoric peoples Anthropology Civilization -- history
Genre:	History
Added Author:	Abbot, C. G. (Charles Greeley) 1872-1973 author
Added Series:	Smithsonian scientific series ; v. 7



Charles Greeley Abbot
viaf.org/viaf/77062086

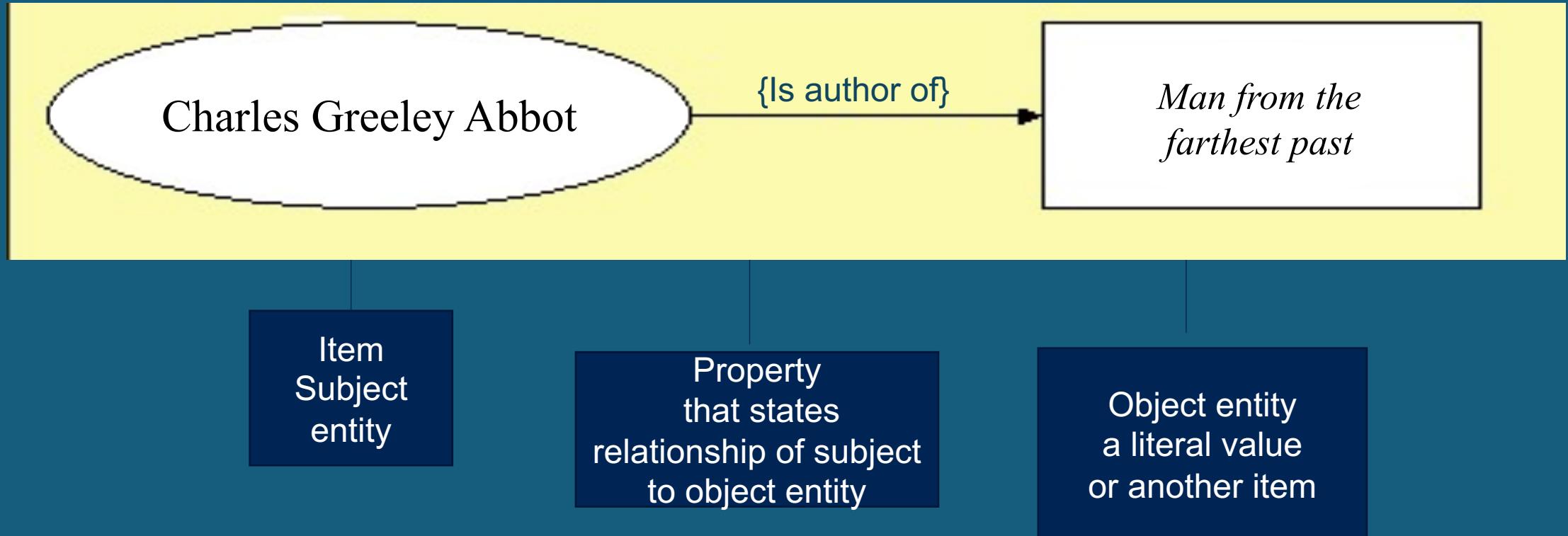
id.loc.gov/authorities/names/n50039868

[Is] author [of]
id.loc.gov/vocabulary/relators/aut

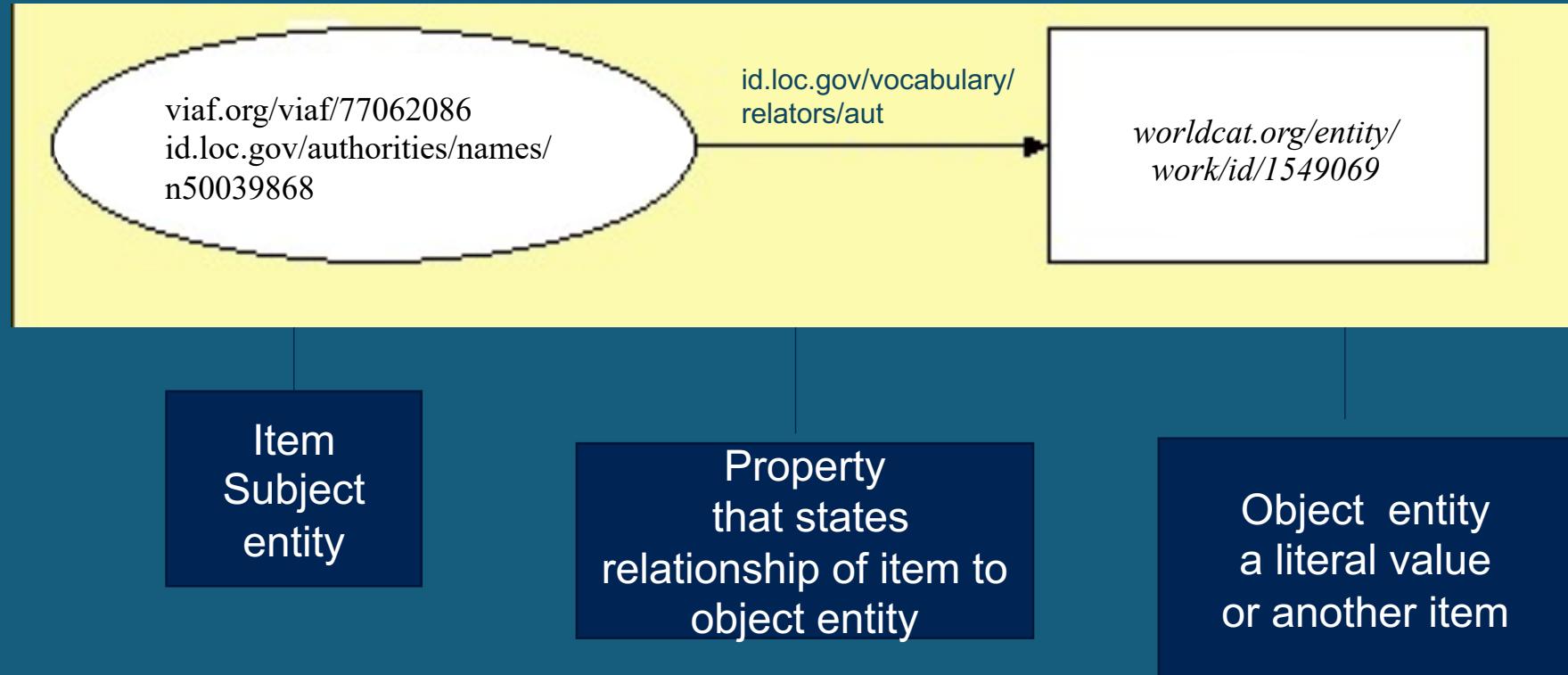


VOLUME SEVEN
OF THE
SMITHSONIAN SCIENTIFIC SERIES
1930

A RDF entity statement



Same entity statement with URIs



Wikidata tools and APIs

- Mix'n'Match
- Cradle
- Scholia (& Authordisambiguator)
- Listeria
- TABernacle
- InteGraality
- QuickStatements
- OpenRefine
- Entity explosion (browser add-on)
- Wikipedia/Wikidata Google spreadsheet (browser add-on)
- common.js
- User widgets

wikidata.org/wiki/Wikidata:Tools

Wikidata “Mix-n-Match”

This tool can list entries of some external databases, and allows users to match them against Wikidata items. Think 'red link lists on steroids'. See [the manual](#) or [watch a video](#) for a how-to. For an alternative, see [OpenRefine](#). You can [suggest](#), [import](#), or [scrape](#) new catalogs. See also: [AC properties without Mix'n'match](#).

Catalog groups

Group	Catalogs
	8
Cinema	49
Genealogy	12
Music	11
Software	15
Wolfram Language entity	85
Archives	28
Art	126
Authority control	6

Search catalogs

Start typing here

Latest catalogs

- [AllGame genres](#) video games genres in the AllGame database
- [AllGame platforms](#) video game platforms in the AllGame database
- [gamegear.jp](#) video games in the gamegear.jp database
- [IRIS SSSUP authors](#) identifier for an author in IRIS SSSUP, the open-repository of Sant'Anna Advanced Studies
- [IRIS Unipi authors](#) identifier for an author in ARPI, the open-repository of the University of Parma
- [Frick Art Reference Library Sitters File \(Married Name Clean-Up Project\)](#)
- [Smithsonian Art & Artist Files Collection \(AAPG\)](#) Names of artists that have artist files at the Smithsonian American Art and Portrait Gallery Library
- [Nintendo64EVER](#) video games in the Nintendo64EVER database database of Nintendo 64
- [N64-database](#) video games in the N64-database database of Nintendo 64 video games
- [SBN authors](#) identifier issued by National Library Service (SBN) of Italy

Wikidata “Cradle”

Tool to create new
Wikidata items from
a form

cradle.toolforge.org/#/subject/artist

https://cradle.toolforge.org/#/subject/artist_(in_library_collection,_short_description)

artist (in library collection, short description)

Labels *	Language Text	+
Aliases	Language Text	+
Descriptions	Language Text	+
instance of *	human	+
image	commonsMedia	+
sex or gender	female	+
country of citizenship	<input type="text"/>	+
name in native language	language monolingualtext	+
date of birth	time	+
date of death	time	+
occupation	visual artist	+
movement	<input type="text"/>	+

author

Dolores Piperno (Q5289551)

Dolores Piperno is an American archaeologist specializing in archaeobotany. She is a senior scientist emeritus of the Smithsonian Tropical Research Institute in Balboa, Panama and the Smithsonian National Museum of Natural History, Washington. ([Read more on English Wikipedia](#))

ID <https://orcid.org/0000-0002-0584-3133>

Table of Contents

- [List of publications](#)
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- [Topics](#)
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- [Venue statistics](#)
- [Review statistics](#)
- [Co-author graph](#)
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- [Other locations](#)
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- [Academic tree](#)
- [Citation statistics](#)
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NATURAL
HISTORY

Dolores Piperno

Senior Scientist Emerita



Department / Division

[Anthropology](#)

Research Interests

The archaeobotany, archaeology, and human ecology of the lowland American tropics together with the biogeographical and climatological history of the tropical biome. A main focus of my career is the origins of agriculture through investigations of phytoliths, starch

Wikidata “Scholia”

Wikidata “Listeria”

Tool to generate wiki
tables from SPARQL
queries and keep data
synchronized with
Wikidata repository

wikidata.org/wiki/WD:Listeria

Generating List: Chinese emperors								
name	image	description	date of birth	date of death	occupation	country of citizenship	item	
Zhuanxu		Emperor of China	No/unknown value -26th century	No/unknown value -25th century				Q198180
Daughter of Emperor Xiaoming of Northern Wei		Northern Wei empress	0528-02-12	No/unknown value	politician			Q10889741
Emperor Ping of Han		emperor of the Han Dynasty	-0009	0006-02-03	monarch	Western Han		Q7244
Wang Mang		Han dynasty official and founding Emperor of the Xin Dynasty (c.45 BC-23 AD)	-0045	0023-10-06	sovereign	Han dynasty Xin dynasty		Q7250

wikidata.org/wiki/Wikidata:WikiProject_PCC_Wikidata_Pilot/Smithsonian_Libraries/Projects/Chinese_Portraits/Tasks/Listeria

Wikidata “TABernacle”

Tool for browsing and editing Wikidata, a sister project of Wikipedia, that aids users in data entry and data remixing

#	Item	instance of	Label	Description	Alias(es)
1	Emperor Zhi Q1207922	human	en Emperor Zhi	en	en *
2	King Yi of Zhou Q1208109	human	en King Yi of Zhou	en King of China	en
3	King Yi of Zhou Q1208124	human	en King Yi of Zhou	en King of Zhou Dynasty	en
4	Fuchai Q1269349	human	en Fuchai	en Chinese king	en King Fuchai of Wu en Fucha
5	Fu Liang Q1270073	human	en Fu Liang	en Chinese official (374-426)	en
6	Liang Shidu Q1272181	human	en Liang Shidu	en Chinese general	en
7	Emperor Taizu of Later Liang Q1275305	human ► References/qualifiers	en Emperor Taizu of Later Liang	en Liang Dynasty emperor	en Zhu Huang en Zhu Quanzhong
8	King Zhao of Zhou Q1275781	human ► References/qualifiers	en King Zhao of Zhou	en King of the Chinese Zhou Dynasty	en Zhou Zhaowang
9	Emperor Xuan of Western Liang Q1285740	human ► References/qualifiers	en Emperor Xuan of Western Liang	en Western Liang emperor	en Xiao Qie en Xiao Cha en Lisun en Zhong Zong en Xuan Di en Xiao Cha(Liangxuanhuangdi)

wikidata.org/wiki/Wikidata:TABernacle

Wikidata “InteGraality”

Wikidata:GLAM/Smithsonian Institution/Reports/SAAM/tabs This table describes the completeness of properties in Wikidata for SAAM objects. A good reference for item structure for visual works: [Wikidata:WikiProject_Visual_arts/Item_structure](#).

[all entities](#) | [count](#) | [all groupings](#) | [without grouping property](#) | [below threshold \(1\)](#) | Grouping by [instance of \(P31\)](#)

Manually update

Top groupings (Minimum 1 items)		Top Properties (used at least 0 times per grouping)								
Name	Count	image (P18)	inception (P571)	height (P2048)	width (P2049)	creator (P170)	copyright status (P6216)	inventory number (P217)	described at URL (P973)	
painting (Q3305213)	8405	43.36% (3644)	92.31% (7759)	89.32% (7507)	89.32% (7507)	99.89% (8396)	42.42% (3565)	100.0% (8405)	0.25% (21)	
watercolor painting (Q18761202)	392	65.82% (258)	98.47% (386)	99.49% (390)	99.49% (390)	100.0% (392)	100.0% (392)	100.0% (392)	0% (0)	
print (Q11060274)	6	16.67% (1)	100.0% (6)	50.0% (3)	50.0% (3)	100.0% (6)	0% (0)	100.0% (6)	0% (0)	
sculpture (Q860861)	4	100.0% (4)	100.0% (4)	50.0% (2)	25.0% (1)	100.0% (4)	0% (0)	75.0% (3)	0% (0)	

wikidata.org/wikidata:GLAM/Smithsonian_Institution/Reports/SAAM/Object_ID_completeness

Wikidata “QuickStatements”

Tool to edit Wikidata items, based on a simple set of text commands, V1 or CSV.

The screenshot shows the QuickStatements interface with three main windows:

- Main Window:** Displays a "CREATE" command for creating a Wikidata item. The command includes fields for LAST, Len, Den, P31, P21, P569, P19, P20, P6379, and P1795, along with their corresponding values and descriptions.
- Top Left Window:** A modal window titled "New batch" with fields for "batch number", "user name", and "temp. batch ID". It also contains "Import V1 commands" and "Import CSV" buttons.
- Bottom Right Window:** A modal window titled "Create new command batch for SI Wikibase" with a "batch name" field. It displays a list of commands starting with "id,Len,Den,P17,P208,P65,P135" followed by several names and their descriptions.

The URL quickstatements.toolforge.org/#/ is visible at the bottom of the main window.

Reuse of Wikidata

Wikidata display options

WIKIDATA Search Wikidata

Navigation ▾ Wiki tools ▾ Page tools ▾

Charles Greeley Abbot (Q210126)

Item Discussion ☆

American astrophysicist and the 5th Secretary of the Smithsonian

C. G. (Charles Greeley) Abbot | C. G. Abbot

Enter a schema to check Automatically check schema

Recoin: Most relevant properties which are absent

In more languages

Language	Label	Description	Also known as
English	Charles Greeley Abbot	American astr Secretary of t	 SQID
Spanish	Charles Greeley Abbot	No description	

All entered languages

Charles Greeley Abbot (Q210126)
C. G. (Charles Greeley) Abbot | C. G. Abbot

American astrophysicist and the 5th Secretary of the Smithsonian

Instance of: Charles Greeley Abbot is a(n) [human](#)

Statements

Own statements		From related entities
writing language	English (West Germanic language originating in England)	>
place of death	Washington, D.C. (capital city of the United States)	>
languages spoken, written or signed	English (West Germanic language originating in England)	>



Wikipedia article with Wikidata



Crotos

 **Crotos**
Cosmos
Callisto
Lab

smithsonian

4340 Results



Strawberry-Blite (*Chenopodium capitatum*)
Mary Vaux Walcott - Smithsonian American Art Museum



Niagara Falls
George Inness - Smithsonian American Art Museum



Still Life with Fan and Roses
Thomas Hovenden - Smithsonian American Art Museum



Two Young Men
George Catlin - Smithsonian American Art Museum



Louisa Dunmore Mums Mott
National Portrait Gallery

Language English Images/page 20 → Contribution mode   

<https://zone47.com/crotos/?s=smithsonian>

WADE: Wiki Art Depiction Explorer

Two Comanche Girls (Q20441431)

Label from: English (en)

[view on Wikidata](#) [skip this photo](#) [browse paintings](#)

artist: [George Catlin](#) (Q455133)

collection: [Smithsonian American Art Museum](#) (Q1192305)

location: [Smithsonian American Art Museum](#) (Q1192305)

country of origin: [United States of America](#) (Q30)

material used: [oil paint](#) (Q296955) [canvas](#) (Q4259259)

Smithsonian American Art Museum ID: [4421](#)

information from the Smithsonian American Art Museum catalog

description: The scene, painted by George Catlin at a Comanche village in 1834, shows "the wigwam of the Chief, his dogs, and his five children." The artist also described the village as "six or eight hundred skin-covered lodges, made of poles and buffalo skins, in the manner precisely as those of the Sioux and other Missouri tribes . . . This village with its thousands of wild inmates, with horses and dogs, and wild sports and domestic occupations, presents a most curious scene; and the manners and looks of the people, a rich subject for the brush and the pen." (Catlin, Letters and Notes, vol. 2, no. 42, 1841, reprint 1973, and 1848 Catalogue, Catlin's Indian Gallery, SAAM online exhibition)

keywords [Ethnic - Indian - Comanche](#) [Children](#) [Architecture Exterior - domestic - teepee](#)

what can you see in this painting?

art.wikidata.link/item/Q20441431



wikidata.org/wiki/Wikidata:WikiProject_Wiki_Art_Depiction_Explorer

Histropedia

Secretaries of the Smithsonian Institution

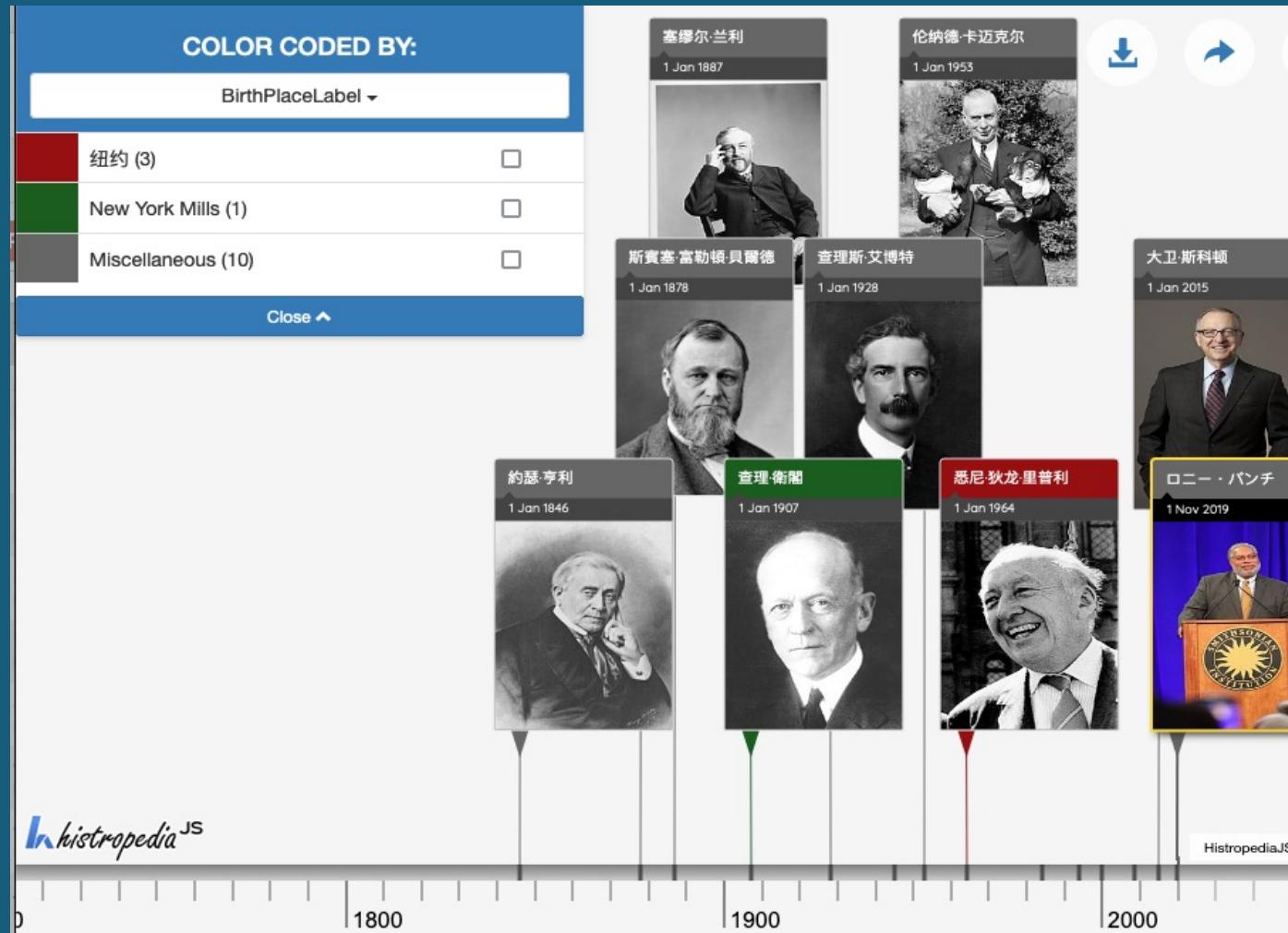
w.wiki/3wmq

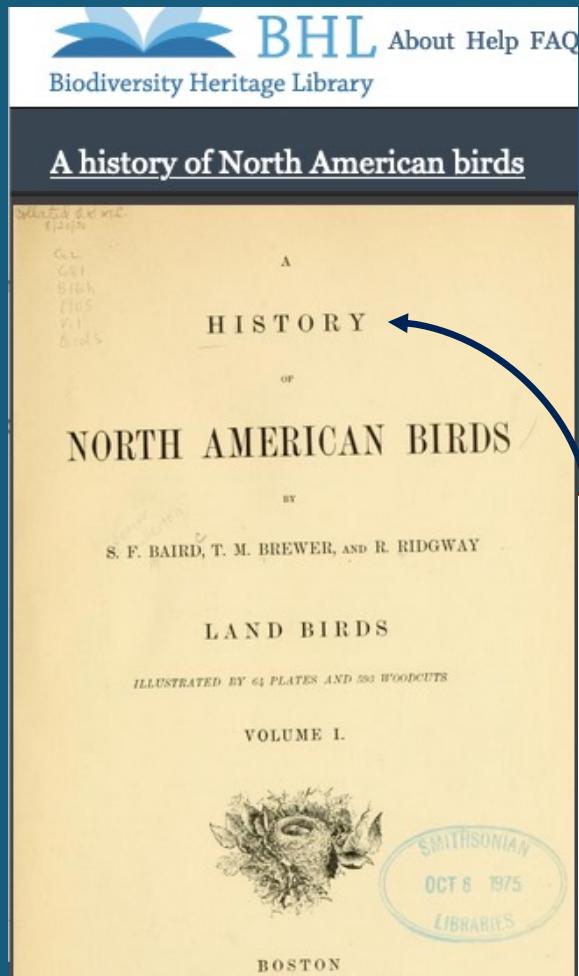
Data representation via Histropedia

tinyurl.com/SIsecretaries

tinyurl.com/SIsecretariesBydates

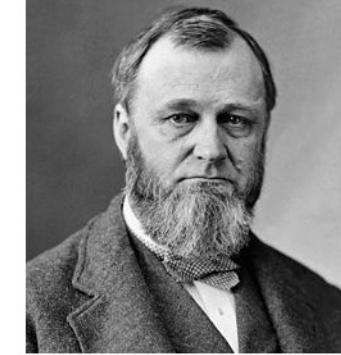
tinyurl.com/SIsecretariesLang





Spencer Baird inter- & intra- links: author to work

educated at	Dickinson College college in Pennsylvania
family name	Baird family name
given name	Spencer unisex given name series ordinal : 1
	Fullerton given name series ordinal : 2
notable work	A history of North American birds Natural History Illustrations 1889 b The water birds of North America Outlines of American ornithology Book Report upon the invertebrate animals and physical features of the region sci Catalogue of North American birds, chiefly in the Museum of the Smithsonian Institution Washington :Smithsonian Institution,1858. Smithsonian Libraries View Book
	A history of North American birds Q51403552 Boston :Little, Brown,1905. Smithsonian Libraries View Book 1905 publication by Thomas Mayo Brewer, Spencer Fullerton Baird, and Robert Ridgway Catalogue of North American birds, chiefly in the Museum of the Smithsonian Institution Washington :Smithsonian Institution,1858. Smithsonian Libraries View Book



Spencer Fullerton Baird (Q14049)

Spencer Baird | Baird | Spencer F. Baird | Baird, SF | Спенсер Бэрд | スペンサー・フラートン・ペアード | Спенсер Фуллертон Бэрд | 斯賓塞·富勒頓·貝爾德 | سپنسر فولرتون بیرد | Spencer Fullerton Baird | ספנסר פולרטון בירד

American naturalist, ornithologist, ichthyologist, museum curator, and the 2nd Secretary of the Smithsonian

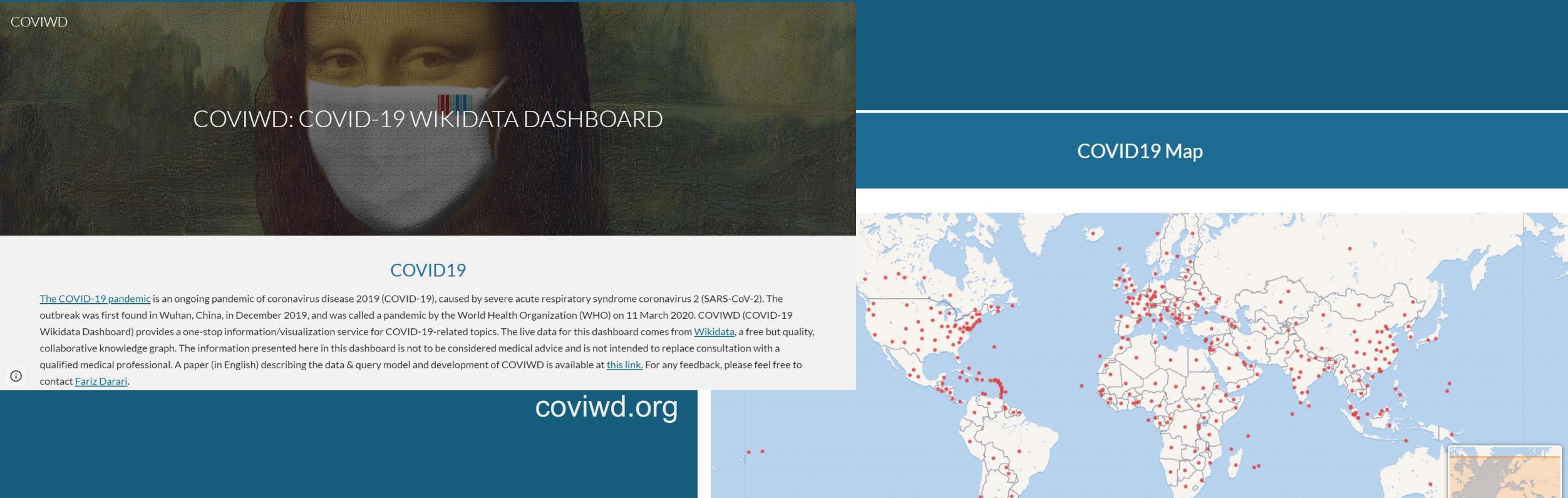
Spencer Fullerton Baird was a US-American naturalist, curator, ornithologist, zoologist, ichthyologist, and university teacher.

He was born on February 3, 1823 in Reading to Lydia McFunn Baird.

He studied at Dickinson College. His field of work included ornithology, ichthyology, and herpetology.

reasonator.toolforge.org/?&q=51403552

Wikidata “Dashboard”: CoVid-19



Web services connected to Wikidata

- Library of Congress
- iNaturalist
- IMDB
- GeoName
- Spotify
- etc.
- Abbot, Charles Greeley
id.loc.gov/authorities/names/n50039868
- Yellow-legged Gull
inaturalist.org/taxa/59202
- James Norton
imdb.com/name/nm3584268
- Tokyo Prefecture
geonames.org/1850144
- Girls' Generation (Korean girl pop music group)
open.spotify.com/artist/0Sadg1vgvaPqGTOjxu0N6c

External data embedded in library catalog

- Cornell new catalog
 - “*Two*” (scroll to click link, <Highlight the DISCOGS data>)
newcatalog.library.cornell.edu/catalog/8058246
 - “*Comparison of ...*” (scroll to click icon <i> links for <Subjects>)
d.lib.msu.edu/etd/3746/
 - “*Mark Twain*” (scroll to view <Information from the Web>
search.library.wisc.edu/catalog/9911042395202121
- Mich State catalog
- U-W Madison catalog



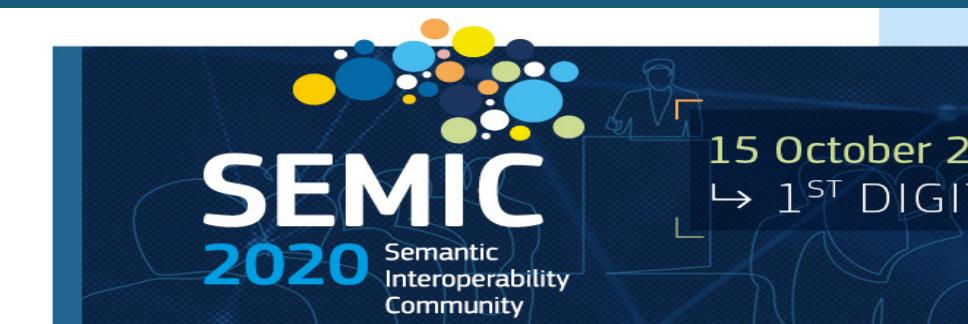
wikiba.se



a decentralized perspective for Wikidata

software that WMDE has written to make Wikidata a powerful, flexible and customizable, available in multiple languages data repository, supports data serializations, e.g., JSON, N3, etc.

Wikibases in Europe



{BnF}

French National Library

Bibliothèque nationale de France (BnF) and the Bibliographic Agency for Higher Education in France are building a new service for libraries and other GLAM institutions based on Wikibase.



DEUTSCHE NATIONAL BIBLIOTHEK

German National Library

The Deutsche Nationalbibliothek (DNB) is adopting Wikibase for its Integrated Authority File (GND). The GND is used throughout German speaking countries and contains 8 million records on persons, corporate bodies, geographical names and more.

DEUTSCHE NATIONAL BIBLIOTHEK

Luxembourg Ministry Of Culture

A competency network of 8 GLAM institutions are pursuing Wikibase for sharing authority information. They use the CIDOC-CRM ontology as a federation tool for data modelling and RDA-FR as normative rulebook for content.

Wikifying authority data: GND



German National Library

The Deutsche Nationalbibliothek (DNB) is adopting Wikibase for its Integrated Authority File (GND). The GND is used throughout German speaking countries and contains 8 million records on persons, corporate bodies, geographical names and more.



GND all in

Importing both content and structure of the GND into a Wikibase instance

- 300 properties and their qualifiers
- 9 mio items and their relations
- reshaping the GND that was formed by its technical infrastructure and human tradition
- Enabling synchronization to the master copy in CBS
- Increasing usability within Wikibase
- Furthering collaboration of emancipated users

tinyurl.com/DNBwikibase

Wikifying library bib and authority data

{BnF

French National Library

Bibliothèque nationale de France (BnF) and the
Bibliographic Agency for Higher Education in France
are building a new service for libraries and other
GLAM institutions based on Wikibase.

FNE (Fichier national d'entités)

Authority database

NOEMI (Nouvelles Oeuvres, Expressions,
Manifestations et Items)

New LSP

tinyurl.com/BNFnoemi

First Nations, Métis, and Inuit – Indigenous Ontology (FNMIIO)

FNMIIO Vocabulary

Fundamental questions about how we document the concepts of nation, community, historical community, colonial names and the relationships between these concepts

Aamjiwnaang (Q13)

No description defined

Aamjiwnaang First Nation | Chippewas of Sarnia

In more languages Configure

Language	Label	Description	Also known as
English	Aamjiwnaang	No description defined	Aamjiwnaang First Nation Chippewas of Sarnia

Statements

instance of	Community	edit
	+ 0 references	+ add reference + add value

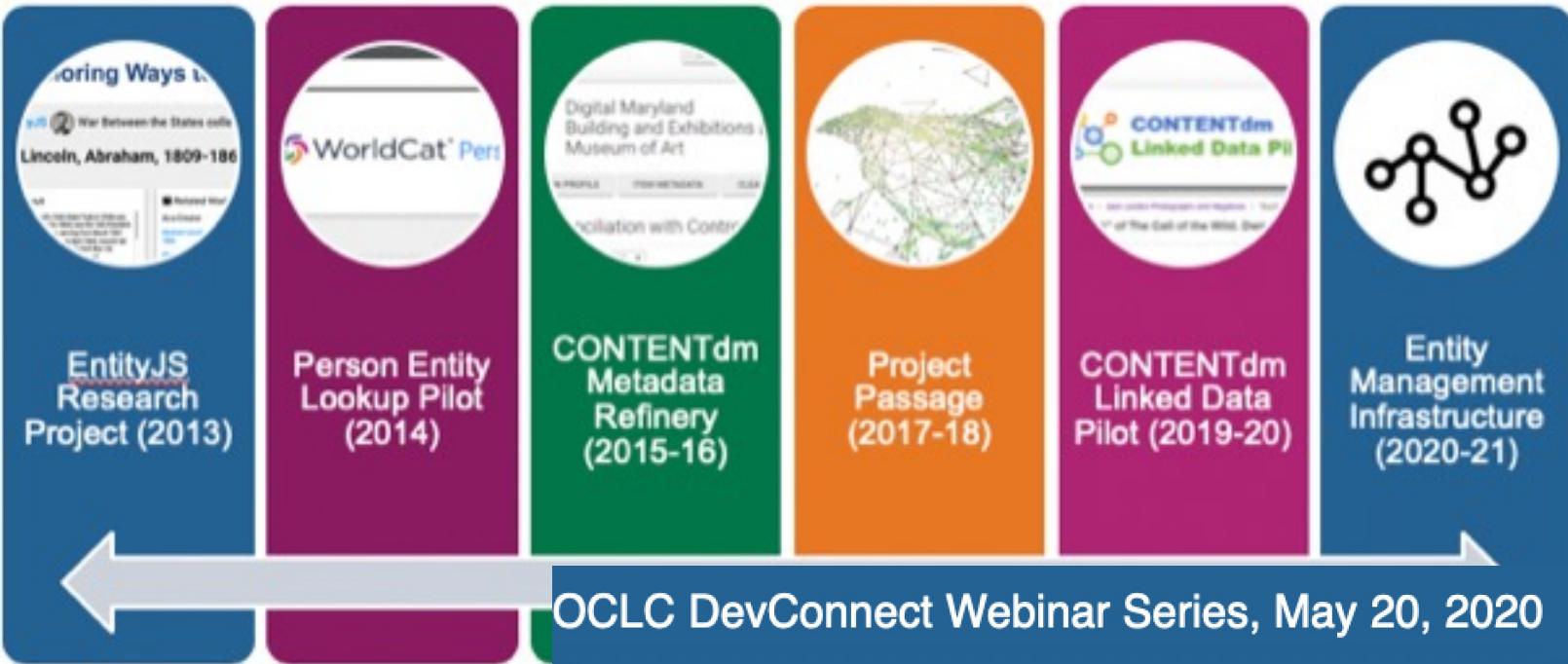
cultural affiliation	Anishnabek	edit
	+ 0 references	+ add reference

	Ojibway	edit
	+ 0 references	+ add reference + add value

political affiliation	Union of Ontario Indians	edit
	+ 0 references	+ add reference + add value

librarianship.ca/news/cfla-nikla-release-fnmiio/

Building on a theme



Wikibase & OCLC

Services

VIAF

Fast Reconciliation Service

Pictograph (en)

CONTENTdm linked data pilot Reconciliation service

Building an OpenRefine Reconciliation Service Endpoint for a Wikibase project

oclc.org/en/worldcat/oclc-and-linked-data.html

Wikibase in art

RHIZOME

Rhizome

Rhizome is a leading digital arts organization based in New York. They maintain the ArtBase, an archive of more than 2,000 born-digital works of art from the 1990s to the present day.

- Public view

artbase.rhizome.org/wiki/Q1885

- Staff edit UI

artbase.rhizome.org/wiki/Item:Q1885

Wikibase in archives



- Public view

enslaved.org/record/person/Q491413

- Staff edit UI

lod.enslaved.org/entity/Q491413

Libraries' Wiki efforts

PCC Wikidata pilot

The Program for Cooperative Cataloging (PCC)

The PCC Secretariat is based in the Library of Congress supporting international efforts to expand access to library collections with mutually accepted standards

The screenshot shows the Library of Congress website with a focus on the Program for Cooperative Cataloging (PCC). The top navigation bar includes links for Ask a Librarian, Digital Collections, Library Catalogs, and a search function. The main content area displays the PCC logo and a map of the world's oceans. Below the map, there is a section titled "Programs of the PCC" featuring buttons for BIBCO, CONSER, NACO, and SACO. A descriptive text box explains the PCC's mission.

LIBRARY LIBRARY OF CONGRESS

ASK A LIBRARIAN DIGITAL COLLECTIONS LIBRARY CATALOGS Search Search Loc.gov GO

The Library of Congress > Cataloging, Acquisitions > Program for Cooperative Cataloging

CATALOGING AND ACQUISITIONS

Program for Cooperative Cataloging
BIBCO / CONSER / NACO / SACO

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Program for Cooperative Cataloging

Programs of the PCC: BIBCO CONSER NACO SACO

The Program for Cooperative Cataloging (PCC) seeks to be a democratic and diverse organization whose mission and goals are determined by its membership. Members govern the programs through participation in program events, standing committees, and task groups. PCC is a cooperative cataloging venture wherein members contribute bibliographic records and related data under a common set of standards and conventions using the bibliographic utilities.

The mission of the PCC

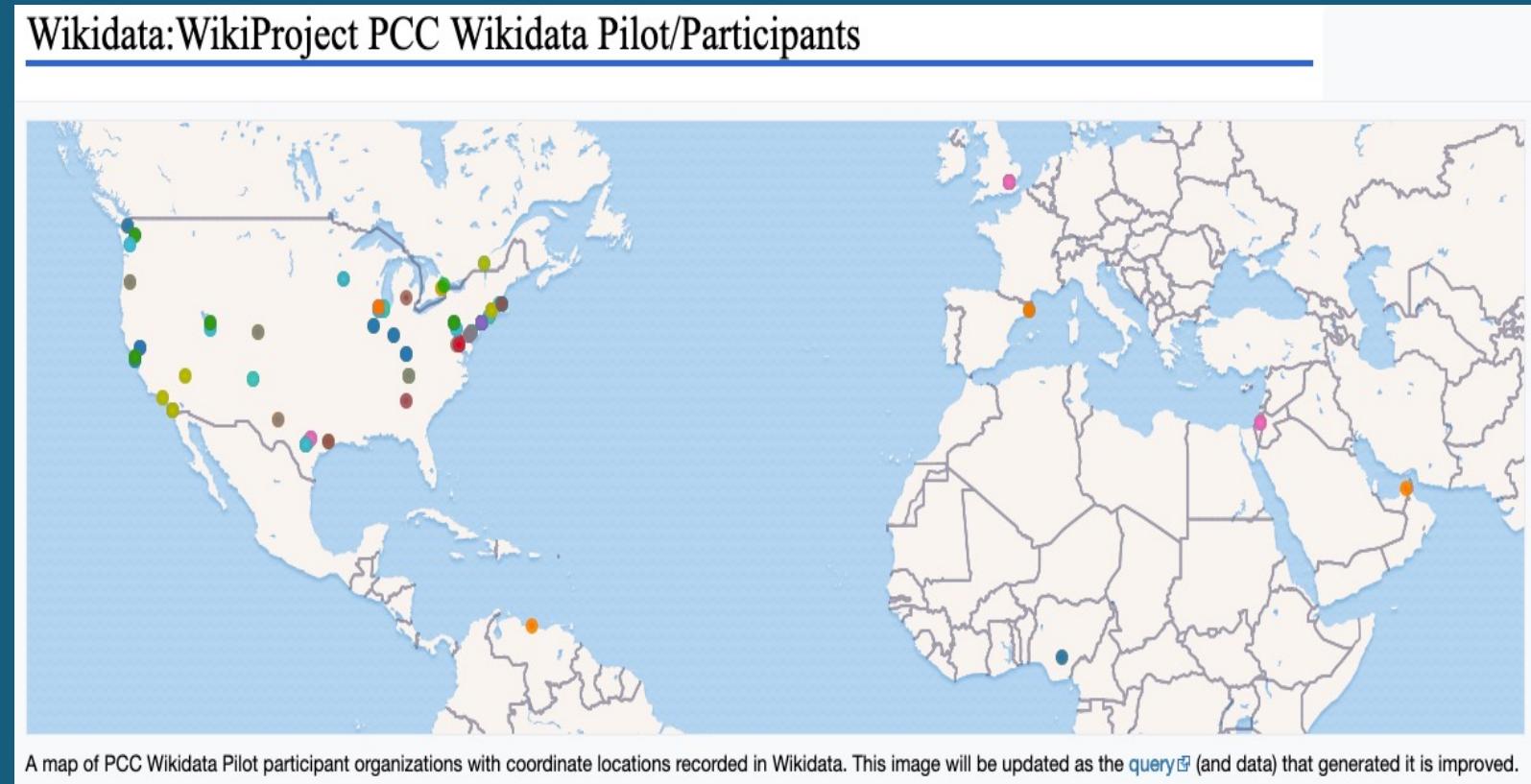
MISSION

The PCC promotes the discovery and use of the world's knowledge by supporting metadata producers in library and other cultural heritage communities and by forging alliances with partners who share common goals. PCC members create trusted metadata and support its use and reuse by global communities.



PCC Wikidata pilot

Wikidata, a high-demand identifier hub, ideal for identity management of a NACO-Lite approach



How did we get started?

- Authority control needs
- Data starting point
 - Artists files—Libraries and museums
 - Languages and scripts for non-Latin collections
 - Researchers and published outputs



Libraries Wikidata Projects

Wikidata:WikiProject PCC Wikidata Pilot/Smithsonian Libraries

[Project page](#) [Discussion](#) [Star](#)

[Edit](#) [Edit source](#) [History](#)

< Wikidata:WikiProject PCC Wikidata Pilot

Welcome

Participants

Projects

Properties

Resources

wikidata.org/wiki/Wikidata:WikiProject_PCC_Wikidata_Pilot/Smithsonian_Libraries

- African ethnic groups
- Artists files
- Chinese ancestors portraits (Qing Dynasty)
- Dibner scientists portraits
- Smithsonian Research Online (SRO)

*These projects all centered around dealing with **names** (people, organizational units), but also faced challenges with **multilingual scripts**, **ethics** concerns, and making **inferences***

This is what we did for PCC Wikidata pilot

- Understanding data model in the Wikidata ecosystem
- Tools, application & constraints
- Smithsonian internal and Wikidata community policies
- Standards, best practices and patterns
- Ethical questions
- Political issues
- Impacts from SPARQL queries

Early accomplishments

- *Smithsonian resource ID*

identifier for a resource held by the Smithsonian Institution

wikidata.org/entity/P7851

- *artist files at*

institution or collection that holds artist files about the subject

wikidata.org/entity/P9493

P7851: SI resource ID

www.wikidata.org/entity/P7851

The screenshot shows a web browser window with the Smithsonian Libraries and Archives website. The URL in the address bar is https://www.si.edu/object/siris_si_67977. The page displays 'Object Details' for the book 'A history of North American birds'. The book is attributed to F. Baird, T. M. Brewer, and R. Ridgway. The text block includes the following information:

- Wikidata: Q51403552
- autor: Robert Ridgway
- autor: Thomas Mayo Brewer
- autor: Spencer Fullerton Baird
- estatus de los derechos de autor: dominio público
- instancia de publicación
- lugar de publicación: Boston
- fecha de publicación: 1905-01-01T00:00:00Z
- texto completo en: <https://www.biodiversitylibrary.org/item/47436>
- título: A history of North American birds
- DOI [mul]: 10.5962/BHL.TITLE.12713
- DOI (Committee for the Accessibility of Publications in Sciences and Humanities): 10.5962/BHL.TITLE.12713
- DOI (Crossref): 10.5962/BHL.TITLE.12713
- DOI (Digital Bibliography & Library Project): 10.5962/BHL.TITLE.12713
- DOI (dissemin): 10.5962/BHL.TITLE.12713
- DOI (Handle System): 10.5962/BHL.TITLE.12713
- DOI (Our Research): 10.5962/BHL.TITLE.12713
- DOI (Scholia): 10.5962/BHL.TITLE.12713
- DOI (Semantic Scholar): 10.5962/BHL.TITLE.12713
- identificador BHL de bibliografía: 12713
- identificador Internet Archive: [historyofnortham01bai](https://archive.org/details/historyofnortham01bai)
- identificador Internet Archive: [historyofnortham02bai](https://archive.org/details/historyofnortham02bai)
- identificador Internet Archive: [historyofnortham03bai](https://archive.org/details/historyofnortham03bai)

A red arrow points from the Wikidata ID 'Q51403552' in the sidebar to the 'Wikidata' section of the right-hand sidebar. A yellow oval highlights the DOI links.



Spencer Fullerton Baird (Q14049)

Spencer Baird | Baird | Spencer F. Baird | Baird, SF | Спенсер Бэрд | スペンサー・フラートン・ペアード | Спенсер Фуллертон Бэрд | 斯賓塞·富勒頓·貝爾德 | Спенсер Фуллертон Бейрд | ספנסר פולרטון בראד

American naturalist, ornithologist, ichthyologist, museum curator, and the 2nd Secretary of the Smithsonian

Spencer Fullerton Baird was a US-American naturalist, curator, ornithologist, zoologist, ichthyologist, and university teacher

ing to Lydia McFunn Baird.
of work included ornithology, ichthyology, and herpetology.

P7851: SI resource ID

www.wikidata.org/entity/P7851

The screenshot illustrates the connection between a Smithsonian artifact page and its corresponding Wikidata entry.

Smithsonian Page: The left side shows the Smithsonian's Freer Gallery of Art and Arthur M. Sackler Gallery website. It features a portrait of Chunying, Prince Rui, and includes text about the painting's history and ownership.

Wikidata Entity Exploration Window: A central window displays detailed information about the artifact, including its QID (Q107781236), location (Washington, DC; Arthur M. Sackler Museum), and ownership history (Wu Ping-Chung, Richard G. Pritzlaff). A yellow arrow points from the artifact's title on the Smithsonian page to the QID in the Wikidata window.

Wikidata Page: The right side shows the Wikidata page for Chunying (Q107781236). It lists various details such as the artist (Ross Perot), exhibition context (Worshiping the Ancestors: Chinese Commemorative Portraits), and the object type (Portrait).

External Sources: At the bottom, it shows the Smithsonian resource (fsg_S1991.83) and other external links.

reasonator.toolforge.org/?&q=107781236

P9493: artist files at

www.wikidata.org/entity/P9493

item	itemLabel	date_of_birth	artist_files_atLabel
Q wd:Q106915946	Bill Beirne	25 October 1941	Smithsonian American Art and Portrait Gallery Library
Q wd:Q106915948	Bill Richards	19 September 1944	Smithsonian American Art and Portrait Gallery Library
Q wd:Q97015558	Joseph L. Lasker	1 January 1919	Frick Art Reference Library
Q wd:Q106906922	Aris Koutoulis	1 January 1938	Smithsonian American Art and Portrait Gallery Library
Q wd:Q106095825	Catherine Kernan	6 September 1948	Smithsonian American Art and Portrait Gallery Library
Q wd:Q84498504	Jerry Ingram	13 December 1941	Smithsonian American Art and Portrait Gallery Library
Q wd:Q106777497	William Sanger	12 November 1875	Smithsonian American Art and Portrait Gallery Library
Q wd:Q77324927	Irene Siegel	1 January 1932	Frick Art Reference Library
Q wd:Q94134676	Elisabeth Telling	1 January 1882	Smithsonian American Art and Portrait Gallery Library
Q wd:Q107099701	David Itchkawich	18 August 1937	Smithsonian American Art and Portrait Gallery Library
Q wd:Q107099692	Charles B. Keeler	2 April 1882	Smithsonian American Art and Portrait Gallery Library
Q wd:Q106961713	Carol Rosen	1 January 1933	Smithsonian American Art and Portrait Gallery Library
Q wd:Q100230359	Franklin White	1 January 1943	National Gallery of Art Library



w.wiki/3vmn

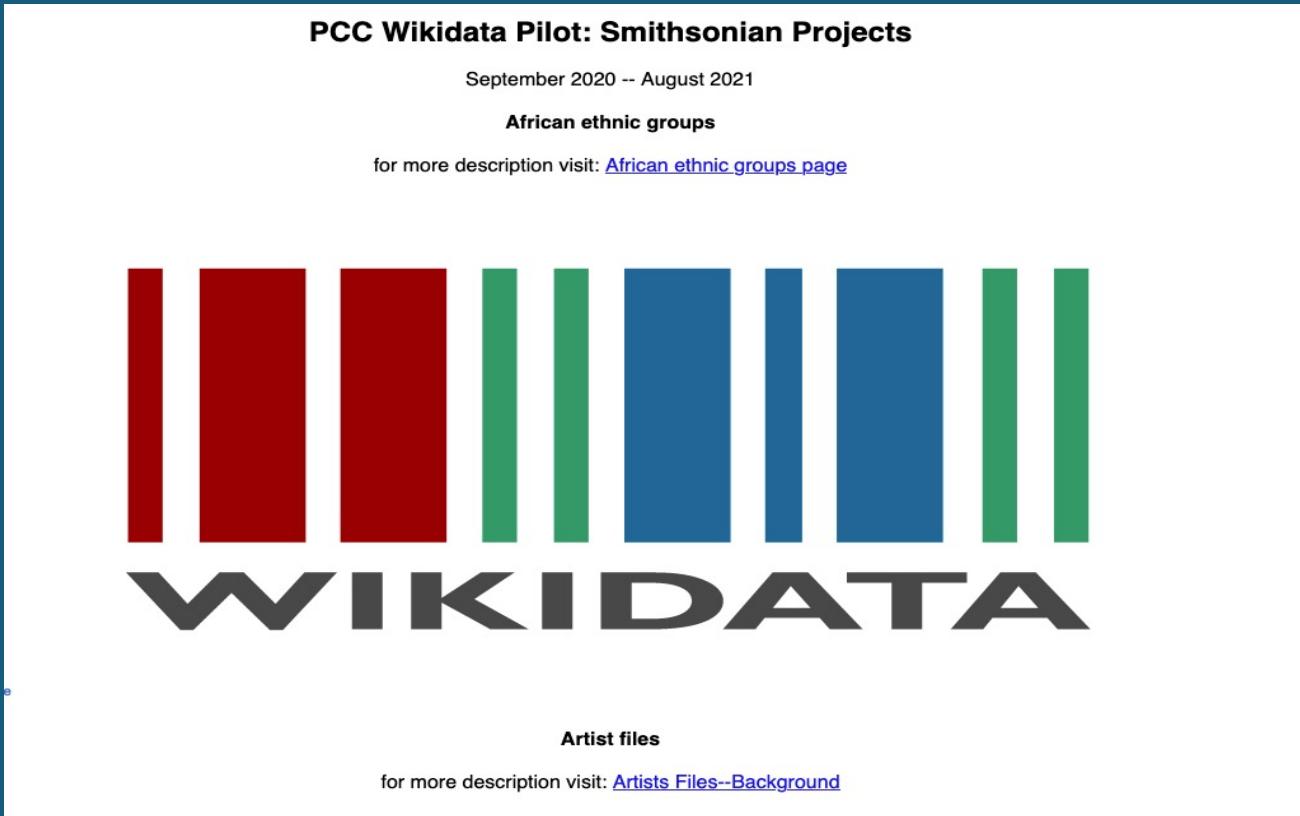
Libraries Wikidata Team presentations

- Libraries Discovery Services Forum
June 23
bit.ly/DISC2021Forum0623
- 2021 LD4 Conference
July 21
sched.co/joA8
youtube.com/embed/SIECDORT_U0?start=690

PCC Wikidata Pilot

Smithsonian Libraries

summaries via SPARQL



sil-vi-database.si.edu/wikidata/PCC_pilot_SMI.html (SI VPN required)

Libraries' Wiki efforts



Wikibase: an SI-centric Wikidata

- What are the entity descriptions that will matter ?
- How much should be said about them?

Where do we start?

Where do we stop?

Should there be different treatments for opinions and interpretation?

What form should the description take?

Who will do the work?

oclc.org/research/presentations/2019/111319-godby-NISO-what-are-entities-that-matter.html

Wikibase benefits

- Independent of, with a federation option to, Wikidata
- Technology stack, potential viable for developing linked data store
- Ability to develop specialized data model
- Local control over data (determining which claims to remain private),
but at the cost of inter-relatability?
- Documentation: best practices
- System customization, e.g., Wikidata:Schemas in place of <property—constraint>
wikidata.org/wiki/Wikidata:WikiProject_Schemas

Smithsonian Wikibase Pilot

Create account Log in

Main page Discussion Read View source View history Search SI Wikibase

Main Page

Welcome to the Smithsonian's Wikibase Pilot!

This instance is for getting us comfortable in the Wikibase environment, and to start modeling out how to implement a Wikibase for Smithsonian data.

Consult the [User's Guide](#) for information on using the wiki software.

Looking to search Properties? Try [Special:Search](#) and choose Advanced. Then you can select to search properties, items, discussion, or anything else listed.

Contents [hide]

- 1 Policies
- 2 Creating new items
- 3 Wikibase Components
- 4 Project Plans
- 5 Program Administration
- 6 Getting started

sil-viweb-wikibase.si.edu (SI VPN required)

Wikibase Properties

Smithsonian
Wikibase Pilot

Special page

List of Properties

Showing below up to 231 results starting with #1.

View (previous 250 | next 250) (20 | 50 | 100 | 250 | 500)

1. [has property \(P1\)](#)
2. [ID_Discogs artist \(P4\)](#)
3. [ID_Discogs label \(P5\)](#)
4. [ID_Discogs master \(P6\)](#)
5. [ID_Discogs release \(P7\)](#)
6. [ID_DOI \(P8\)](#)
7. [ID_Facebook \(P9\)](#)
8. [ID_FAST \(P10\)](#)
9. [ID_GeoNames \(P11\)](#)
10. [ID_Global Biodiversity Information Facility \(P12\)](#)
11. [ID_GND \(P13\)](#)
12. [ID_ULAN \(P14\)](#)
13. [ID_UNIMARC: Medium of performance \(P15\)](#)
14. [ID_VIAF \(P16\)](#)
15. [ID_WikiData \(P17\)](#)
16. [ID_WorldCat Registry \(P18\)](#)
17. [ID_WorldCat Work ID \(P19\)](#)
18. [illustrator \(P20\)](#)
19. [image caption \(P21\)](#)
20. [imported from \(P22\)](#)
21. [inception \(P23\)](#)
22. [father \(P25\)](#)
23. [mother \(P26\)](#)
207. [sameAs \(P210\)](#)
208. [said to be the same as \(P211\)](#)
209. [full work available at URL \(P212\)](#)
210. [subproperty of \(P213\)](#)
211. [of \(P214\)](#)
212. [subsidiary \(P216\)](#)
213. [published in \(P217\)](#)
214. [based on \(P218\)](#)
215. [ID_Crossref funder \(P220\)](#)
216. [ID_ROR \(P221\)](#)
217. [country of citizenship \(P222\)](#)
218. [ID_Profiles \(P223\)](#)
219. [formatter URL \(old?\) \(P224\)](#)
220. [usage instructions \(P225\)](#)
221. [image \(P226\)](#)
222. [Manchu \(P227\)](#)
223. [language of work or name \(P228\)](#)
224. [practiced by \(P229\)](#)
225. [ID_Wikidata Property \(P230\)](#)
226. [Director/Manager \(P231\)](#)
227. [artist files at \(P232\)](#)
228. [work location \(P233\)](#)
229. [depicts \(P234\)](#)
230. [ID_WorldCat Identities \(P235\)](#)
231. [ID_SLA image number \(P236\)](#)

Libraries Wikidata Team external collaborations

- Wikimedia Deutschland (WMDE)
meta.wikimedia.org/wiki/Wikimedia_Deutschland
- LD4 Wikidata and Wikibase WbStack Working hour group
wikidata.org/wiki/Wikidata:WikiProject_LD4_Wikidata_Affinity_Group/Wikibase_and_WBStack_Working_Hours
- PCC Wikidata Group
wiki.lyrasis.org/display/pccidmgt/Wikidata+Pilot
- Wikibase Stakeholders (Rhizome)
wbstakeholder.group
- Art Libraries Wikibase group (Frick, Getty, and AAPG)

Linked data resources in Libraries' PRISM



Smithsonian Libraries and Archives

Home Services and Guides Collections and Search Records Management About Us Contact Us

Wikimedia and Linked Data

The [Descriptive Data Management](#) and the [Resource Description](#) departments of SLA provide expertise to the Smithsonian Community on Linked Open data, Wikimedia Commons, Wikipedia, Wikidata and Wikimedia Projects Training.

Contact

[Wikimedia and Linked Data inquiries](#)

Wikimedia Project Services

SLA has staff members who provide the following services:

- Training for groups and individuals in editing [Wikipedia](#) and other [Wikimedia Foundation](#) projects (such as [Wikidata](#) and [Wikimedia Commons](#)) for Smithsonian staff, interns, fellows, volunteers and affiliates
- Presentations on creating and improving Wiki content in your unit's area of subject expertise
- Assisting in your unit's educational and public outreach efforts through [Wikimedia Foundation](#) projects
- Acting as a liaison with Wikipedians locally and worldwide who are working on [GLAM \[Galleries, Libraries, Archives & Museums\]](#) projects and are eager to be of help by designing tools or serving on short or long-term volunteer assignments in collaboration with your unit.

Linked Open Data Services

Structured data that links to another data point

- Person data
- Research data
- Description data
- Data modeling
- Bibframe
- How linked data impacts web results and visibility
- Consultation for data models and designs
- Data may include person data, collection data, metadata
- Controlled vocabulary or thesauri consultations for cultural heritage collections
- Consultations for Wikimedia projects, e.g. Wikipedia, [Wikimedia Commons](#) (audio, video, images), etc.

sinet.sharepoint.com/sites/Prism-SLA/SitePages/Wikimedia-and-Linked-Data.aspx

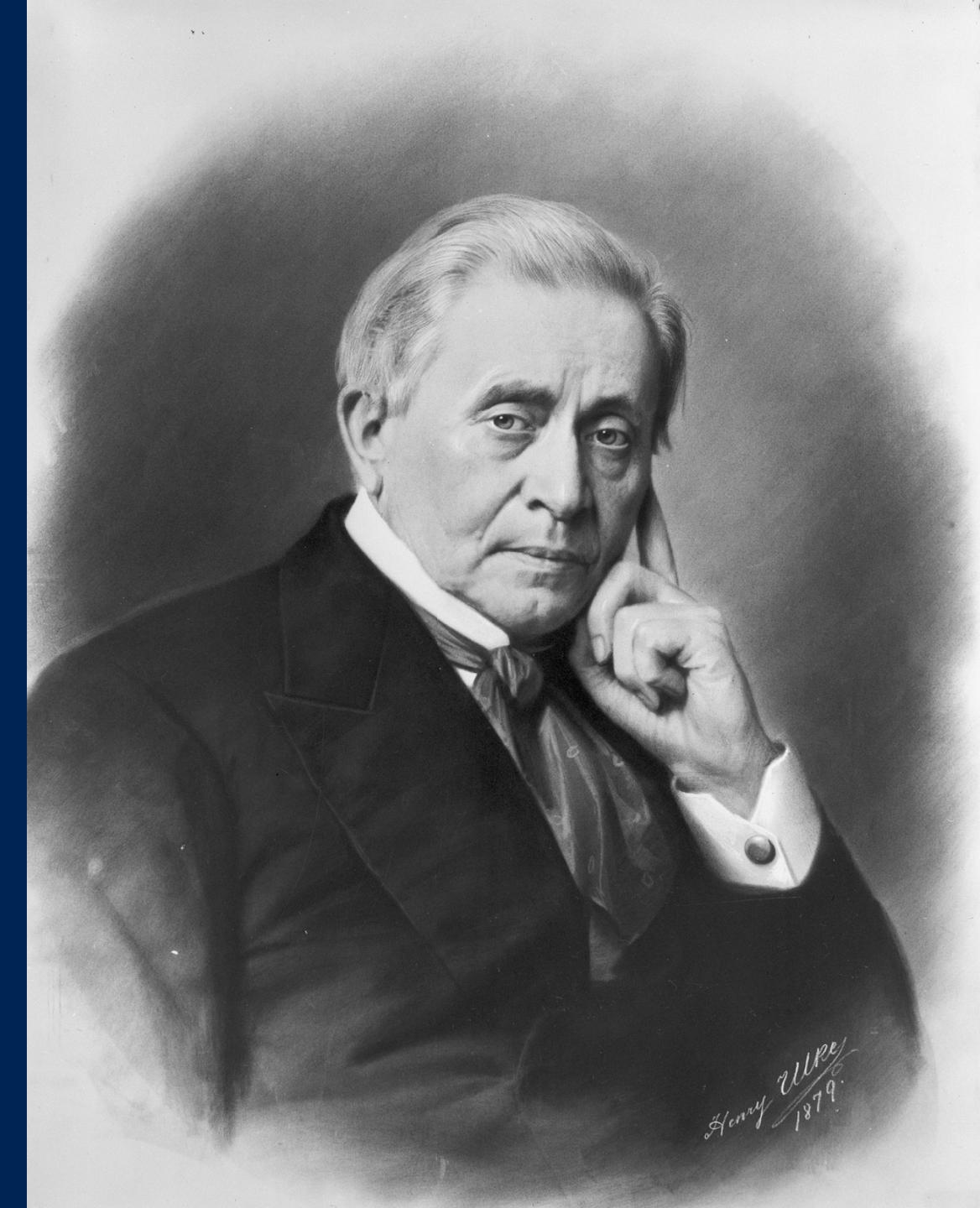
Wikimedia and Linked Data FAQs

- » History
- » Smithsonian and Wiki Foundation Projects
- » Terms and Background about Wikimedia and Linked Open Data
- » What are linked data and linked open data?
- » What are semantic queries?
- » What is a SPARQL endpoint?
- » What is DBpedia? What is its relationship to Wikipedia and Wikidata?
- » What is Wikibase?
- » What is Wikidata?
- » What is Wikimedia Commons?
- » What will be the expected outcome?

“The worth and importance of the Institution is not to be estimated by what it accumulates within the walls of its building, but by what it **sends forth** to the world.”

—Joseph Henry, 1852

First Secretary of the Smithsonian Institution
(1846-1878)



Libraries Wikidata Team

Heidy Berthoud, Head of Resource Description. [Berthoudh](#)

Rebecca Bruner, Library Technician, Hirshhorn Museum and Sculpture Gallery Library. [Rebeccabruner](#)

Anne Evenhaugen, Head Librarian, Smithsonian American Art and Portrait Gallery Library. [aceven](#)

Nilda Lopez, Library Technician, Cooper Hewitt Smithsonian Design Library. [NeoNilz](#)

Richard Naples, Technical Information Specialist, Metadata Services. [Drastician](#)

Kathryn Phillips, Librarian for South, Southeast and Middle Eastern Art and Architecture. [JuliaAgricola](#)

Suzanne Pilsk, Head, Metadata Services. [Pilsks](#)

Alexandra Reigle, Librarian, Smithsonian American Art and Portrait Gallery Library. [AReigle](#)

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Diane Shaw, Special Collections Cataloger. [Uncommon fritillary](#)

Jackie Shieh, Descriptive Data Management Librarian. [ShiehJ](#)

Mike Smith, Librarian for Korean art, American art, Conservation and Scientific Research, and serials. [78smith](#)

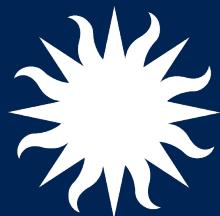
Janet Stanley, African Art Museum Librarian.

Amy Watson, Resource Description. [WatsonAmy](#)

Yue Shu, Librarian for Chinese language. [Shuyuex0320](#)

Thank you!

bit.ly/CIMC202109LibWD



Smithsonian
Libraries and Archives

librariesarchives.si.edu