

# Enabling Descriptive Data to be Linked

Discovery Services Forum

May 2021

[bit.ly/DISC2021Forum05](https://bit.ly/DISC2021Forum05)



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Descriptive Data Management

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# Topics

## May

- Descriptive Data Management
  - Record description & Descriptive data (statements)
- Wikimedia activities
  - Wikipedia, Wikidata, Wikibase, Wikimedia Commons, etc.

## June

- Wikibase and Wikidata (06/09)
  - SI Wikibase Pilot (VPN only: sil-viweb-wikibase.si.edu)
  - PCC Wikidata Pilot Project overview
- PCC Wikidata Pilot—Smithsonian Projects (06/23)
  - African ethnic groups, Artists Files, Dibner scientists portraits, Chinese ancestors portraits (Qing Dynasty), Smithsonian Research Online (SRO)



# Descriptive Data Management

- G1. Hone new tech skills
  - OCLC Connexion (Record Manager in WMS), Horizon
  - MarcEdit, OpenRefine, Spreadsheet (Google, MS)
  - MacroExpress, OCLC MacroBook
- video clip: [bit.ly/SI\\_LinkedData\\_cataloging](http://bit.ly/SI_LinkedData_cataloging)*
- G5. Non-library data
  - Ephemerals, Artist files, etc.
- G6. Optimize ontologies benefits across SI units
  - NACO, SACO, Wikidata, Getty, etc.
- G4. Prepare library data to be linked
  - Library data → Data sets in RDF (Resource Description Framework) triple statements
  - Content standards (moving away from AACR)
    - RDA (Resource Description & Access), RDF-RDA
    - IFLA LRM (Library Reference Model)
  - Encoding standard (moving away from MARC21)
    - BIBFRAME
  - Record description → Descriptive data
  - Modeling descriptive data in a linked open data platform

# Descriptive Data Management

- G4. Prepare library data to be linked
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  - Content standards (moving away from AACR)
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# Once emerging standards

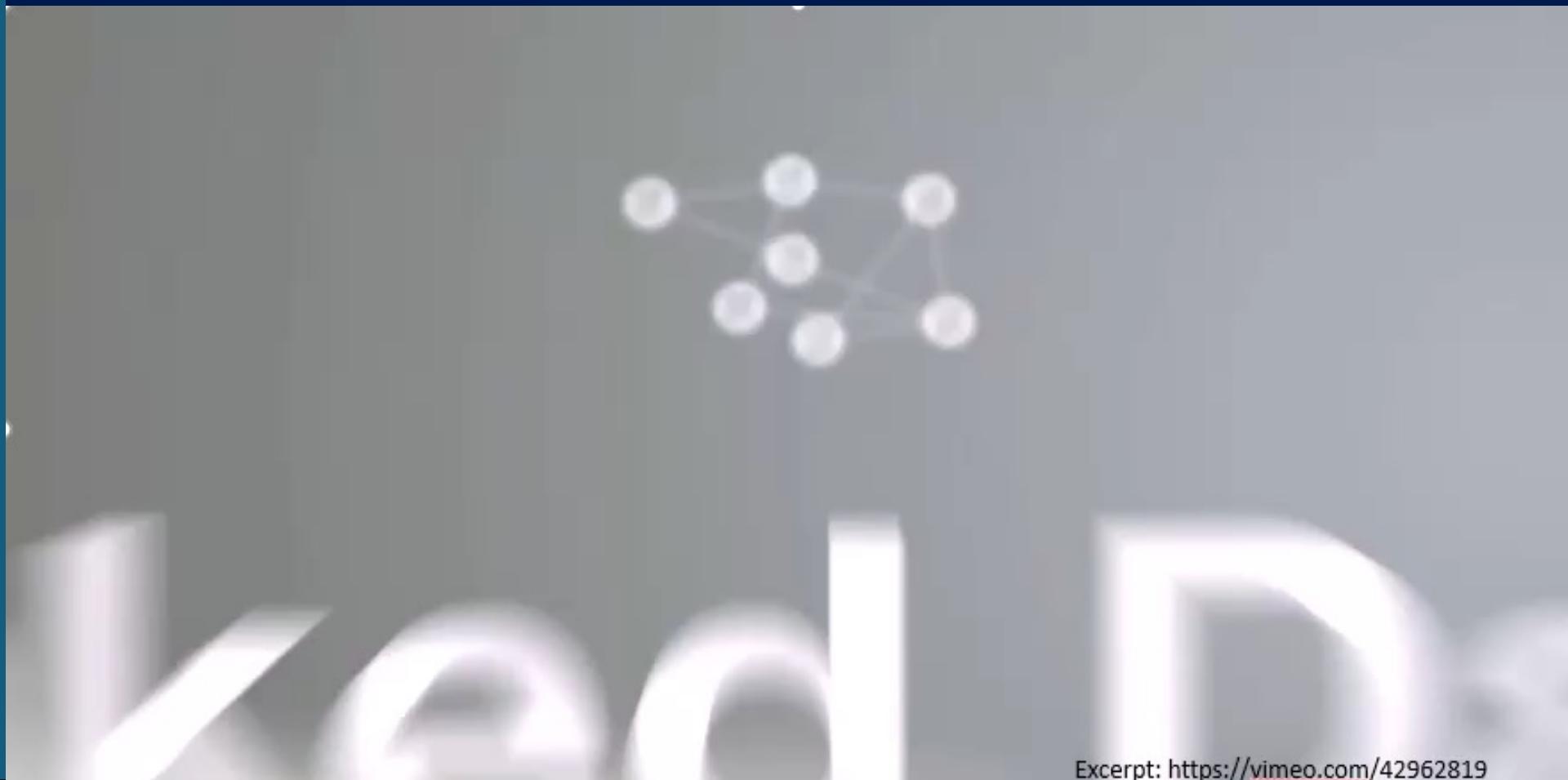
- AACR (Anglo-American cataloging rules)
  - RDA (Resource Description & Access)
  - IFLA LRM (Library Reference Model)
- DCRM(B) (Descriptive Cataloging of Rare Materials (Books))
  - DCRM (B )(Descriptive Cataloging of Rare Materials (Books))
- DACS (Describing archival content standards)
  - Bibliographic Framework (BIBFRAME, BF)
- MARC & MARC21



# Descriptive Data

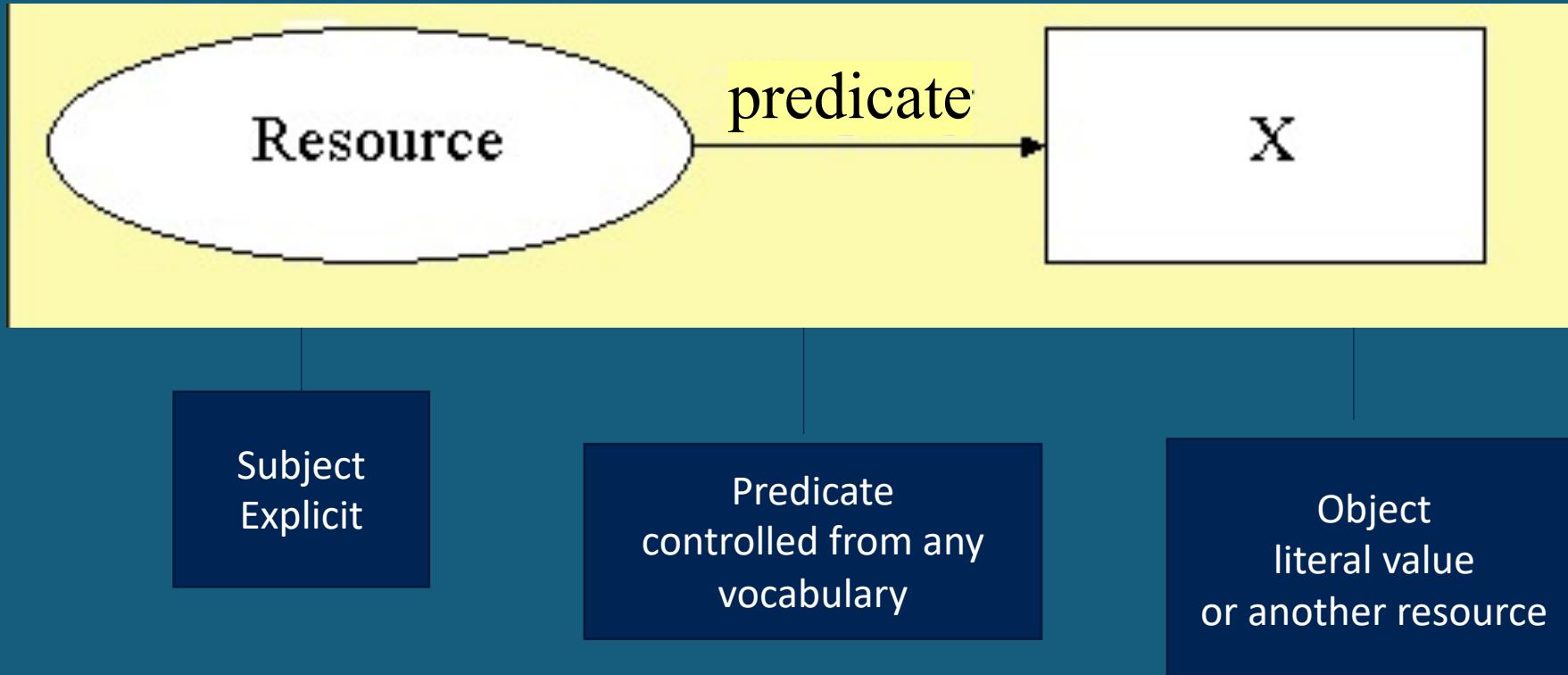
A radical shift of describing resource from  
a flat description to a real world object description  
an entity based description  
a 2-D to a 3-D worldview

# Entity, no more record



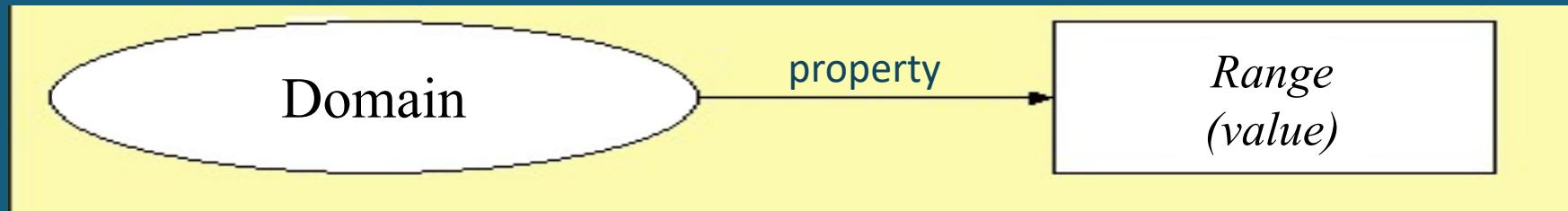
Excerpt: <https://vimeo.com/42962819>

# A RDF statement

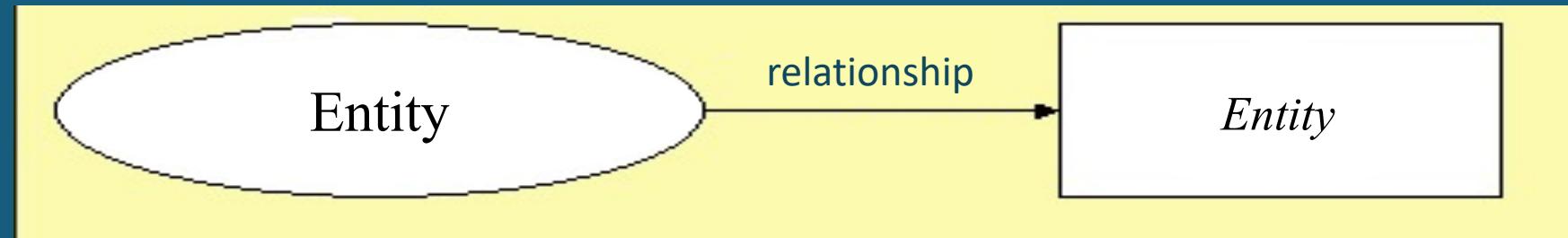


# RDF variant representations

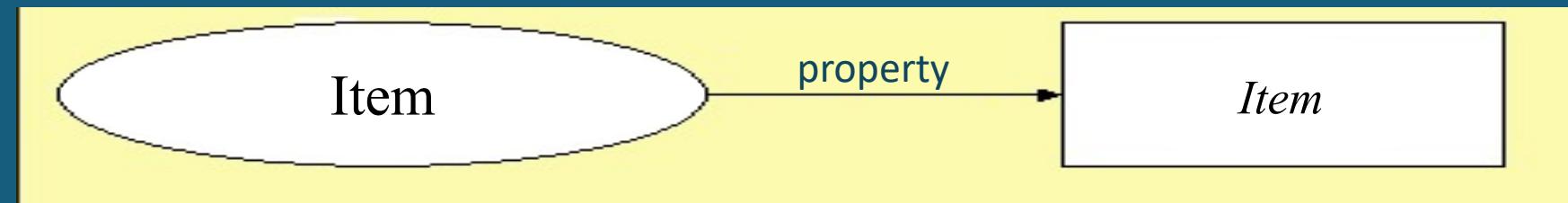
RDA RDF



IFLA LRM



Wikidata



# Record Description



## Man from the farthest past, by C.W. Bishop, Charles Greeley Abbott, and Aleš Hrdlička

*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](http://si.edu/object/siris_sil_23492)

**Man from the farthest past, / by C.W. Bishop, Charles Greeley Abbott, and Aleš Hrdlička.**

Author:	Bishop, Carl Whiting.
Title:	Man from the farthest past, / by C.W. Bishop, Charles Greeley Abbott, and Aleš Hrdlička.
Publisher:	New York, Smithsonian Institution Series, inc., 1930.
Description:	375 p. illus.
Series:	Smith. Sci. Ser., -- vol. 7
Subject:	Prehistoric peoples Primitive societies
Added Author:	Abbot, C. G. (Charles Greeley), 1872-1973 Hrdlička, Aleš, 1869-1943
Added Series:	Smith. Sci. Ser. ; vol. 7.
Catalog Source No.:	(OCoLC)ocm00476263

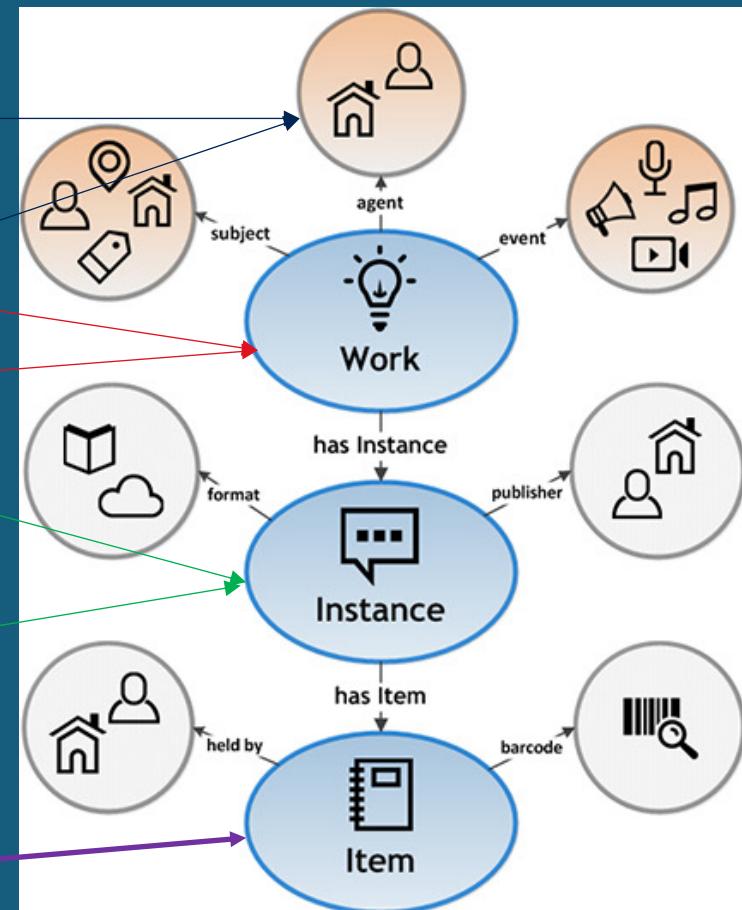
### Copy/Holding information

Call No.	Collection	Barcode	Status
GN738 .B54	SI Tropical Research Institute	39088001335785	Checked In

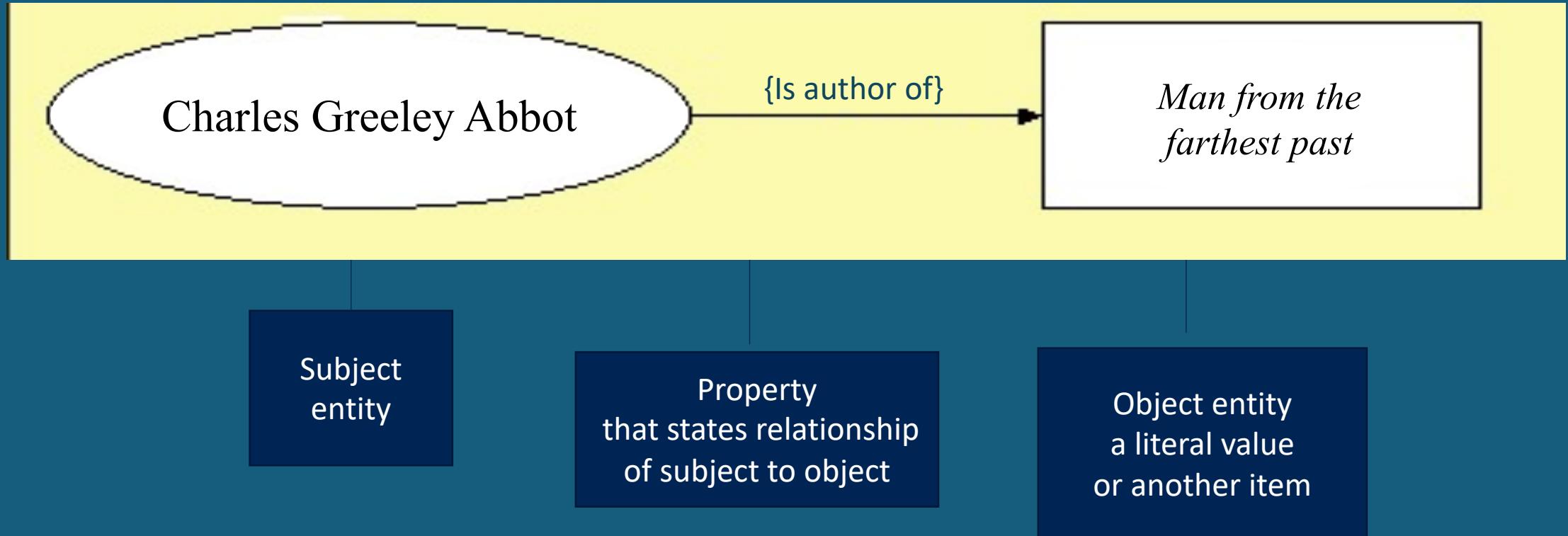


# Record decomposed

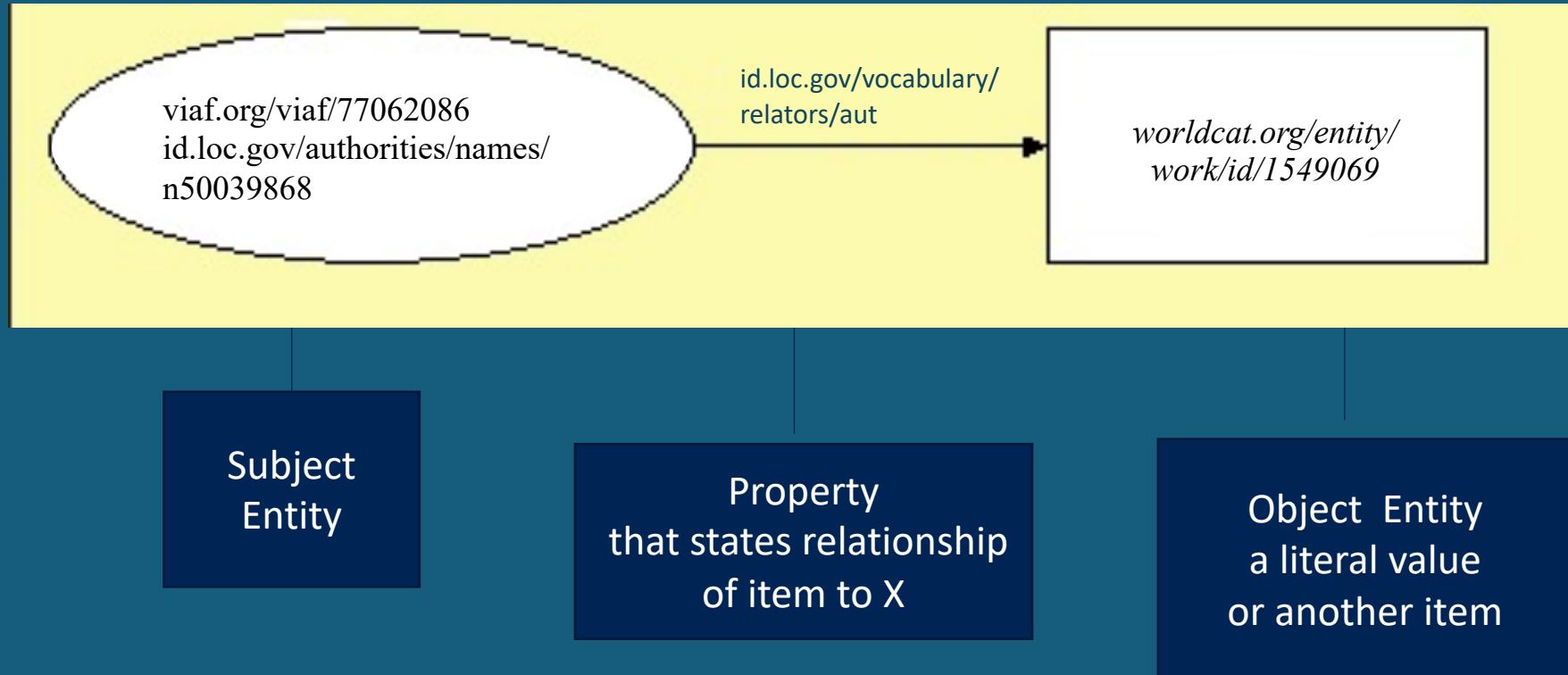
Man from the farthest past, / by C.W. Bishop, Charles Greeley Abbott, and Aleš Hrdlička.			
Author:	Bishop, Carl Whiting.		
Title:	Man from the farthest past, / by C.W. Bishop, Charles Greeley Abbott, and Aleš Hrdlička.		
Publisher:	New York, Smithsonian Institution Series, inc., 1930.		
Description:	375 p. illus.		
Series:	Smith. Sci. Ser. -- vol. 7		
Subject:	Prehistoric peoples Primitive societies		
Added Author:	Abbot, C. G. (Charles Greeley), 1872-1973 Hrdlička, Aleš, 1869-1943		
Added Series:	Smith. Sci. Ser. ; vol. 7.		
Catalog Source No.:	(OCOLOC)ocm00476263		
Copy/Holding information			
Call No.	Collection	Barcode	Status
GN738 .B54	SI Tropical Research Institute	39088001335785	Checked In



# An entity statement



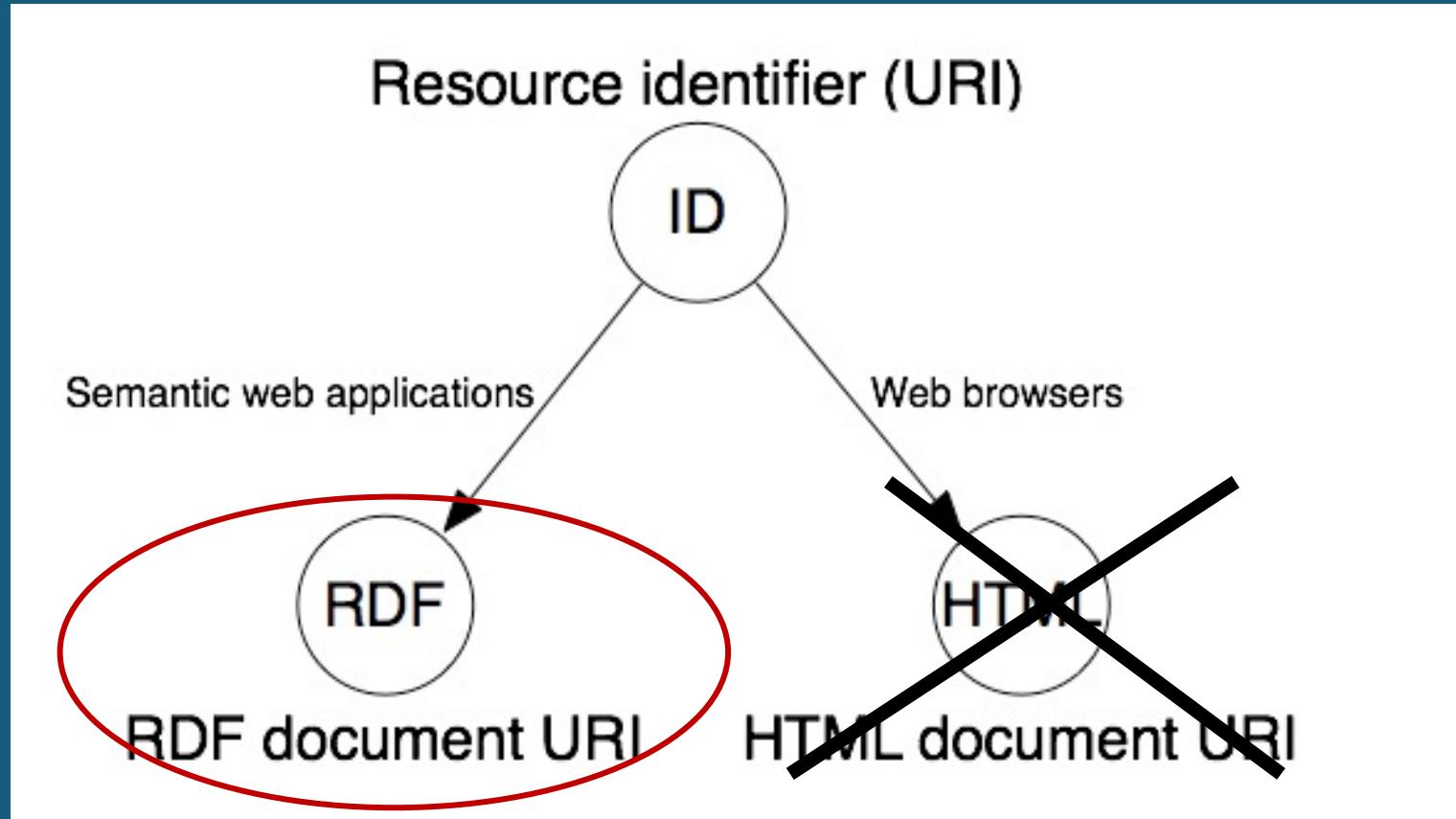
# An entity statement with URLs



# Not all URIs are equal

3XX: Request will complete after further action

301 (Redirect)  
303 (See other)



2XX: Request successfully received, understood and accepted

<https://www.w3.org/TR/cooluris/>

# MARC bibliographic data

*Where should URIs/IRIs for RDF objects go?*

- \$0 Authority record control number or **standard number**  
    \$0 <http://id.loc.gov/authorities/names/n90710805>
- \$1 Real World Object (RWO)  
    \$1 <http://www.wikidata.org/entity/Q36322>
- \$4 Relationship  
    \$4 <http://id.loc.gov/entities/relationships/composer>  
    \$4 <http://rdaregistry.info/Elements/a/P50522>
- \$u **URL** (Uniform Resource Locator)  
    \$u <http://id.loc.gov/authorities/names/n90710805.html>

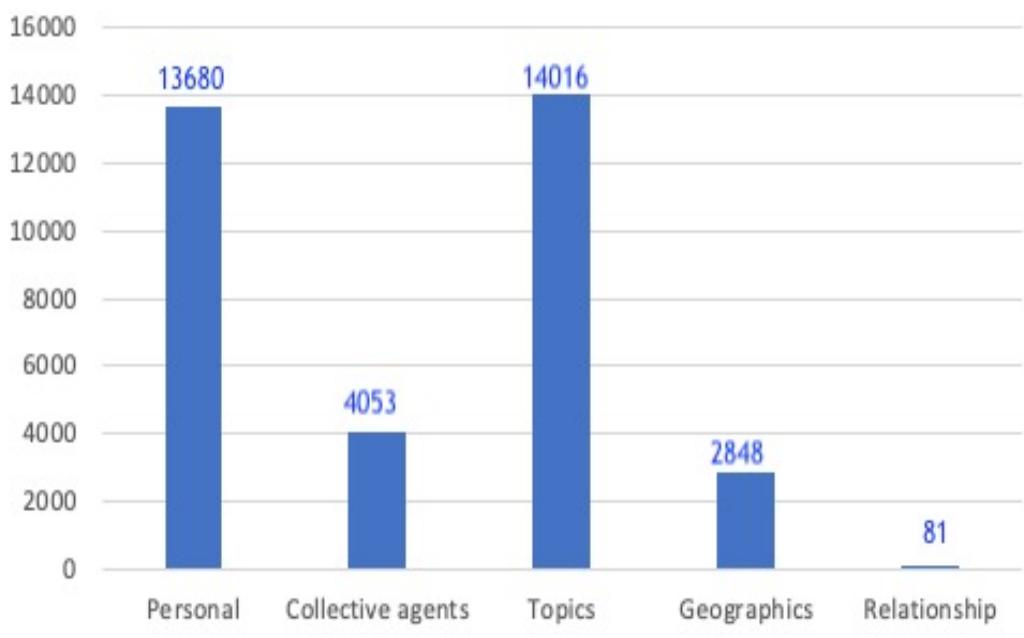
# Before and after FAST/LD enhancements

LDR  
005      n a m \_ \_ \_  
005      20000111174600.0  
008      721024 s 1930 \_ \_ \_ \_ \_ nyu a \_ \_ \_ \_ \_ 0 0 0 0 \_ eng \_ d  
035      †a AAC3510LB  
035      †a (OCOlc)ocm00476263  
040      †a DXU †c DXU †d OCL †d SMI †d WaOLN †d WaOLN  
049      †a SMJB  
090      †a GN738 †b .B54  
099      †a GN738.B54  
100      1 †a Bishop, Carl Whiting.  
245      1 0 †a Man from the farthest past, †c by C.W. Bishop, Charles Greeley Abbot  
260      - - †a New York, †b Smithsonian Institution Series, inc., †c 1930.  
300      - - †a 375 p. †b illus.  
490      1 - †a Smith. Sci. Ser., †v vol. 7  
650      - 0 †a Prehistoric peoples  
650      - 0 †a Primitive societies  
700      1 - †a Abbot, C. G. †q (Charles Greeley), †d 1872-1973  
700      1 - †a Hrdlička, Aleš, †d 1869-1943  
830      - 0 †a Smith. Sci. Ser.; †v vol. 7.  
945      - - †a RCP  
945      - - †a osds 4/10/96 update 700/1  
945      - - †a osds 9/23/96 update 700/2  
951      - - †a 23492

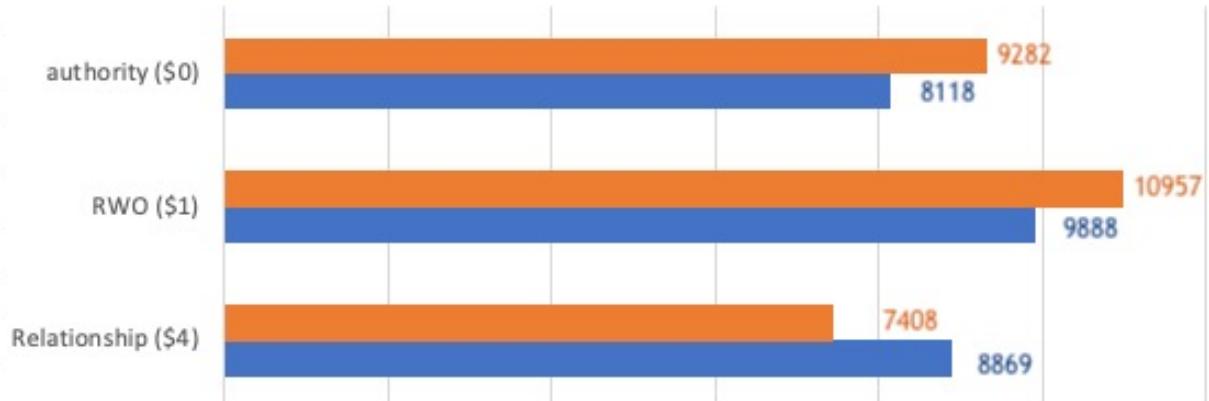
LDR 02016cam a2200481Ic 4500  
001 ocm00853300/  
003 OCoLC  
005 20210412090125.0  
008 740410s1930\\\nyuabf\\\nb\\\n000\\0\\eng\\\n010 \\\\$a 30033590  
040 \\\\$aDLC\\$beng\\$erda\$cRIU\$dCHS\$dOCL\$dSER\$dOCL\$dOCLCG\\$dOCLCQ\$dOCLCG\\$dUPMS\$dVVW\$dOCLCO\$dOCLCF\$dP4I\$dKKU\$dOCLCO  
\$dOCLCQ\\$dUCW\\$dOCLCO\\$dCSJ\\$dOCLCO  
019 \\\\$a476263\\$a987053994\\$a1016202899  
035 \\\\$a (OCOlc)853300\\$z (OCOlc)476263\\$z (OCOlc)987053994\\$z (OCOlc)1016202899  
050 00\\$aGN738\\$b.B5  
050 \\\\$aQ11\\$b.S73 v. 7  
051 \\\\$aQ11\\$b.S732 vol. 7\$cCopy 2  
060 \\\\$aQ 11 S664 v.7 1930  
082 04\\$a571  
049 \\\\$aSMII  
100 1\\\$aBishop, Carl Whiting, \$d1881-1942\$eauthor\$4http://id.loc.gov/vocabulary/relators/aut\$0http://id.loc.gov/  
authorities/names/nr00024618\$1http://viaf.org/viaf/26903912  
245 10\\$aMan from the farthest past\$cby Carl Whiting Bishop ... with the collaboration of Charles Greeley Abbot  
... and Aleš Hrdlička  
264 1\\\$a [New York] \\$b [Smithsonian Institution series, Incorporated]\$c1930  
300 \\\\$a6 preliminary leaves, iii, 375 pages\$bcolor frontispiece, illustrations (including map) 100 plates  
(some color) on 65 leaves\$c25 cm  
336 \\\\$atext\$btxt\$2rdacontent\$0http://id.loc.gov/vocabulary/contentTypes/txt  
337 \\\\$aunmediated\$bn2rdamedia\$0http://id.loc.gov/vocabulary/mediaTypes/n  
338 \\\\$avolume\$bnc\$2rdacarrier\$0http://id.loc.gov/vocabulary/carriers/nc  
490 1\\\$aSmith. Sci. Seri. ;\$vv. 7  
500 \\\\$aOn cover: Patrons edition  
500 \\\\$aOne of the plates accompanied by guard sheet with descriptive letterpress  
504 \\\\$aIncludes bibliographical references (pages 352-358)  
650 \\\\$aAnthropology\$0http://id.loc.gov/authorities/subjects/sh85005581  
650 \\\\$aPrehistoric peoples\$0http://id.loc.gov/authorities/subjects/sh85080302  
650 \\\\$aCivilization\$xHistory\$0http://id.loc.gov/authorities/subjects/sh85026424  
650 \\\\$aAnthropology\$2fast\$0http://id.worldcat.org/fast/00810196  
650 \\\\$aCivilization\$2fast\$0http://id.worldcat.org/fast/00862898  
650 \\\\$aPrehistoric peoples\$2fast\$0http://id.worldcat.org/fast/01075242  
650 \\\\$aAnthropology\$0http://id.nlm.nih.gov/mesh/D000883  
650 \\\\$aCivilization\$xhistory\$0http://id.nlm.nih.gov/mesh/D002962Q000266  
655 \\\\$aHistory\$2fast\$0http://id.worldcat.org/fast/01411628  
700 1\\\$aAbbot, C. G.\$q(Charles Greeley)\$d1872-1973\$eauthor\$4http://id.loc.gov/vocabulary/relators/aut\$0http://  
id.loc.gov/authorities/names/n50039866\$1http://viaf.org/viaf/77062086  
700 1\\\$aHrdlička, Aleš\$d1869-1943\$eauthor\$4http://id.loc.gov/vocabulary/relators/aut\$0http://id.loc.gov/  
authorities/names/n50042241\$1http://viaf.org/viaf/51797905  
758 \\\\$4http://rdaregistry.info/Elements/u/P60052\$1http://worldcat.org/entity/work/id/1549069  
830 \\\\$aSmithsonian scientific series ;\$vv. 7  
951 \\\\$a23492

# URIs counts in Horizon

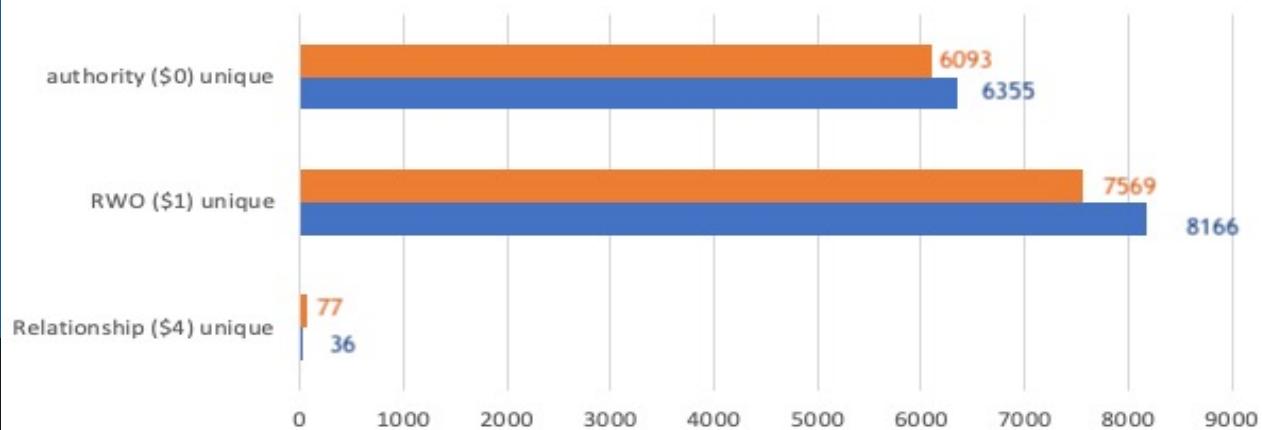
Unique RDF URI by category



URIs Occurences (MARC **100** vs **700**)



URIs Single Occurrence (MARC **100** vs **700**)



# Record → Entity relationship



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

Smithsonian Libraries and Archives

### Object Details

#### Author

Bishop, Carl Whiting

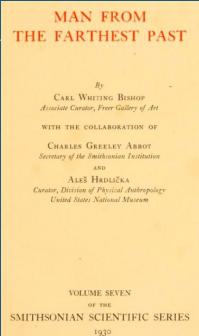
Abbot, C. G (Charles Greeley) 1872-1973

Hrdlička, Aleš 1869-1943

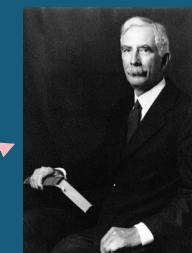
1930

[si.edu/object/siris\\_sil\\_23492](http://si.edu/object/siris_sil_23492)

Author:	Bishop, Carl Whiting, 1881-1942 author
Title:	<b>Man from the farthest past / by Carl Whiting Bishop ... with the collaboration of Charles Greeley Abbot ... and Aleš Hrdlička</b>
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



[worldcat.org/entity/work/id/1549069](http://worldcat.org/entity/work/id/1549069)



Charles Greeley Abbot

[viaf.org/viaf/77062086](http://viaf.org/viaf/77062086)

[id.loc.gov/authorities/names/n50039868](http://id.loc.gov/authorities/names/n50039868)

[Is] author [of]

[id.loc.gov/vocabulary/relators/aut](http://id.loc.gov/vocabulary/relators/aut)

# A Linked Open Data Platform Sample



# Charles Greeley Abbot (Q210126)

https://www.wikidata.org/wiki/Q210126

Search Wikidata

## Charles Greeley Abbot (Q210126)

[Item](#) [Discussion](#) [☆](#)

American astrophysicist and the 5th Secretary of the Smithsonian

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

▼ In more languages

Language	Label	Description
English	Charles Greeley Abbot	American astronomer and astrophysicist, Secretary of the Smithsonian
Spanish	Charles Greeley Abbot	No description available

[All entered languages](#)

### Statements

instance of  human

## Man from the farthest past (Q514)

[New York, Smithsonian Institution series, inc.]1930. | Patrons edition

Statements

officeholder [Secretary of the Smithsonian](#) Chief executive officer of the Smithsonian Institution  
start time : 1928  
end time : 1944  
series ordinal : 5

winner [Henry Draper Medal](#) award point in time : 1910 [sqid.toolforge.org/#/view?id=Q210126](#)

named after [Abbot](#) lunar crater start time : 1973 [ringgaard.com/kb/Q210126](#)

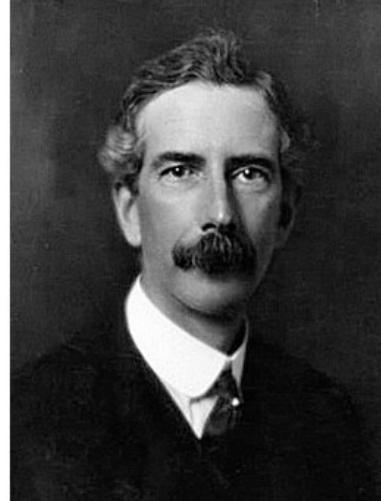
depicts [Charles Greeley Abbot](#) painting by Samantha Littlefield Huntley

Charles Greeley Abbot painting by Nicholas Richard Brewer

author [Man from the farthest past](#) [New York, Smithsonian Institution series, inc.]1930. | Patrons edition. Smithsonian Libraries View Book  
stated as : Abbot, C. G. (Charles Greeley), 1872-1973

The sun and the welfare of man New York, Smithsonian Institution Series, inc., 1929. | Smithsonian Libraries View Book  
stated as : Abbot, C. G. (Charles Greeley), 1872-1973





#### External sources

Wikimedia projects

Current language Wikipedias

en Charles Greeley Abbot

## **Big Wikipedias**

Charles Greeley Abbot

Charl

Charles Greeley Abbot

## Chariot

Charles Greeley Abbot  
Charles Abbot

### **Connect cloud**

## Concept cloud



Smithsonian  
*Libraries and Archives*

# Wikimedia Projects

- non-profit
- multilingual
- free-content

# Wikimedia Activities & the Smithsonian

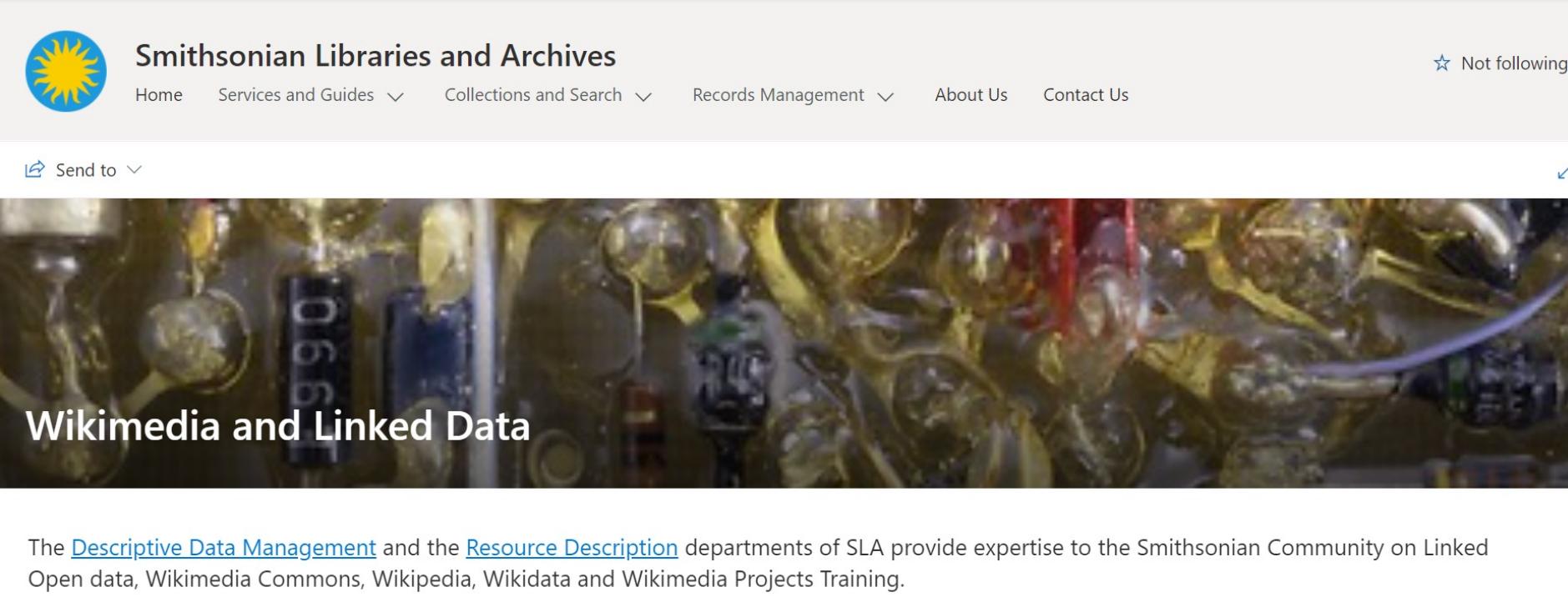
The screenshot shows the Wikimedia Foundation website. At the top, there's a navigation bar with links: Our Work (underlined), Support Wikipedia, Research, Advocacy, Technology, News, Participate, and About. The 'EN' language dropdown is also at the top right. Below this, a large yellow banner features the text 'OUR WORK' in blue and 'We help everyone share in the sum of all knowledge.' in bold black. To the right of the text is a photograph of people working in a library or study area. A white box contains the text: 'We are the people who keep knowledge free. There is an amazing community of people around the world that makes great projects like Wikipedia. We help them do that work. We take'. The background of the main content area is white.

## Smithsonian Open Access

Create. Imagine. Discover.



# Smithsonian linked data and Wikimedia projects make a great partnership! But how did we get here?



The screenshot shows the LinkedIn profile of the Smithsonian Libraries and Archives. The profile picture is a yellow sun icon. The header text is "Smithsonian Libraries and Archives". The navigation bar includes links for Home, Services and Guides, Collections and Search, Records Management, About Us, and Contact Us. A "Not following" button is visible. Below the header is a "Send to" dropdown and a share icon. The main image is a close-up photograph of a complex mechanical or electrical assembly, possibly a clock mechanism. Overlaid on the image is the text "Wikimedia and Linked Data". At the bottom of the profile, there is a white box containing the text: "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."

# WIKIPEDIA

The Free Encyclopedia

English

6 291 000+ articles

日本語

1 266 000+ 記事



Español

1 679 000+ artículos

Deutsch

2 571 000+ Artikel

Русский

1 720 000+ статей

中文

1 194 000+ 條目

Polski

1 471 000+ haseł

Português

1 066 000+ artigos

## It all started with Wikipedia

- Created in 2001; Wikimedia Foundation created in 2003 to administer it
- Open source
- Volunteer editors & developers
- International in scope
- One of the top 10 most visited websites



Smithsonian  
*Libraries and Archives*

# Wikimedia Projects Family



**WIKIMEDIA  
COMMONS**

Media repository for  
image, sound, and video files

**Collaborative projects are the  
core of the Wikimedia  
movement.**

Our volunteers build tools, share photos, write articles, and are working to connect all the knowledge that exists.



**WIKISOURCE**

Online library of freely available source texts, including translations in any language

# The GLAMWiki Movement



The **GLAM–Wiki initiative** ("galleries, libraries, archives, and museums" with Wikipedia; also including botanic gardens and zoos) helps cultural institutions share their resources with the world through collaborative projects with experienced Wikipedia editors.

- Started circa 2010, with the first Wikipedian in Residence at the British Museum
- GLAM workers & enthusiasts are an important part of the Wiki community

# SI & Wiki Projects

- SI Wikimedians in Residence, 2011-
- SIL Wikipedia Visiting Scholar, 2017-2018
- AWHI Open Knowledge Coordinator (Kelly Doyle)
- Wikimedian at Large (Andrew Lih)





# Wikidata: A GLAM Game-Changer!

- A free and open knowledge base that can be read and edited by both humans and machines
- Central storage for the **structured data** of its Wikimedia sister projects including Wikipedia, Wikivoyage, Wiktionary, Wikisource, and others

# Uses for Wikidata

- Central storage for identifiers
- A hub of connecting facts about people, places, things, and concepts
- A source to pull data from to reuse in other projects

## WIKIDATA IN BRIEF

Claim: Item – Property – Value

Item Q number  
Property P number

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

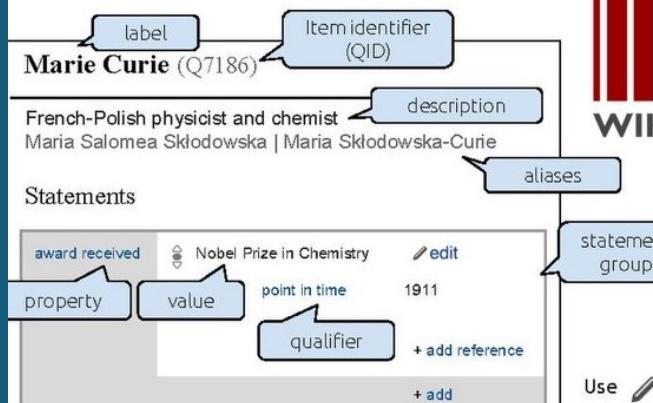
### Wikidata item basics

[Label, description, aliases](#) – human friendly language-specific strings

[Statements](#) – includes identifiers, sitelinks at bottom of an item

[Qualifiers](#) – adds details to claims (ie. dates, distinctions, etc)

[Copyright](#) - all content in Wikidata is Creative Commons CC0 (public domain)



### Critical concepts

[Help:Basic membership properties](#)  
Instance (P31) vs subclass (P279)

### Help:Sources

Adding references, use "stated in" or "reference URL"

### Displaying items

[Reasonator](#) and [SOID](#) – rich visual display of Wikidata items

[Wikidata Graph Builder](#) – show connectedness of items based on properties

### Querying

[Query.wikidata.org](#) – SPARQL interface. Explore example queries and display options. CTRL-Space auto-expands item and property names to Q/P numbers.

[VizQuery](#) – simple query using rules without requiring coding



Use edit and +add to modify

### Simple editing tools

[Distributed Game](#) – contribute through Yes/No/Skip micro-decisions

[Mix-n-Match](#) – connect external identifiers to Wikidata items

### Bulk editing

[Quickstatements](#) – use tab-delimited claims to edit

[PetScan](#) – powerful toolbox for Wikipedia categories and Wikidata

[OpenRefine](#) – open source tool for cleaning messy data, reconciliation

[Data donation](#) - how and why to contribute, and guidelines for institutions

### Other tools

[TABernacle](#) – inspect and edit Wikidata interactively in table format

[Google Spreadsheet Wikipedia Tools](#) – query Wikipedia and Wikidata from spreadsheet cells

[External tools](#) – comprehensive list of all Wikidata tools

[WikiBase](#) – open source software extension to MediaWiki that runs Wikidata. Available as a Docker container to create a custom structured data repository

### Community and news

[Wikidata:Project chat](#) – discussion forum

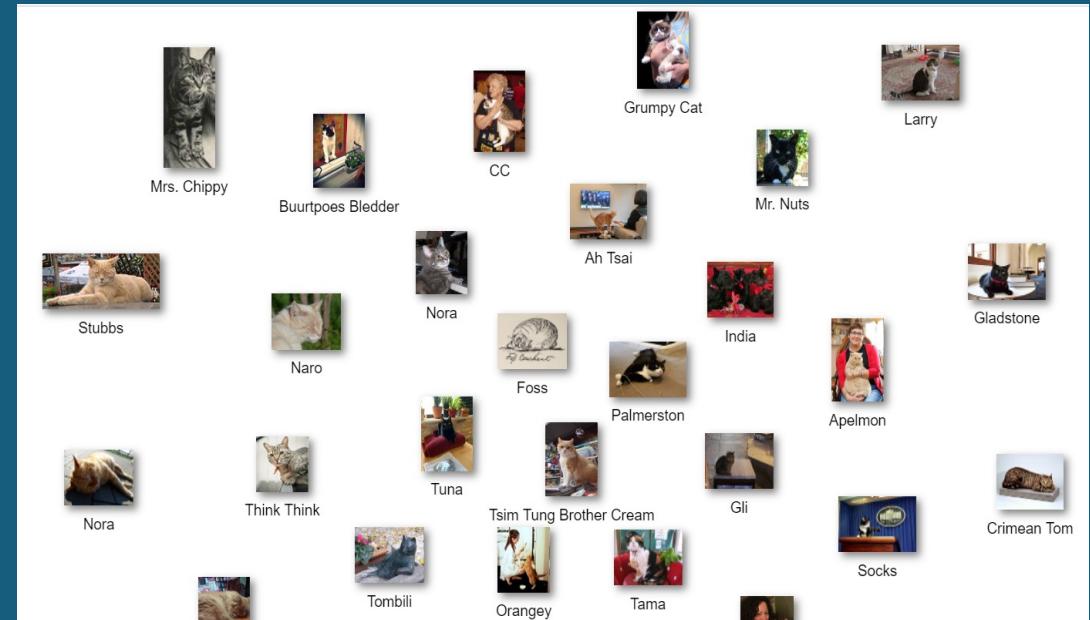
[Wikidata:Status updates](#) – weekly summary newsletter

# Wikidata Query Service: Now it's easy to find pictures of famous cats! Or lots of other things

Wikidata Query Service

Examples Help More tools

```
1 #Cats, with pictures
2 #defaultView:ImageGrid
3 SELECT ?item ?itemLabel ?pic
4 WHERE
5 {
6 ?item wdt:P31 wd:Q146 .
7 ?item wdt:P18 ?pic
8 SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en" }
9 }
```





# MediaWiki

## MediaWiki

- A collaboration and documentation platform that powers Wikipedia & is used by 1000s of organizations
- MediaWiki is great for large projects: it's scalable, free, & open source

# Wikibase

- A powerful, flexible and customizable knowledge base software (an extension to MediaWiki) that powers Wikidata
- JavaScript interface for data management
- Development led by a Wikimedia Deutschland team



# Smithsonian Wikibase Pilot: Learn more at the DISC Forum on June 9, 2021

Create account Log in

Main page Discussion Read View source View history Search SI Wikibase

**Smithsonian**  
*Wikibase Pilot*

Main page Recent changes Random page Help about MediaWiki New Item New Property List of Properties Search Tools What links here Related changes Special pages Printable version Permanent link Page information

## 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.

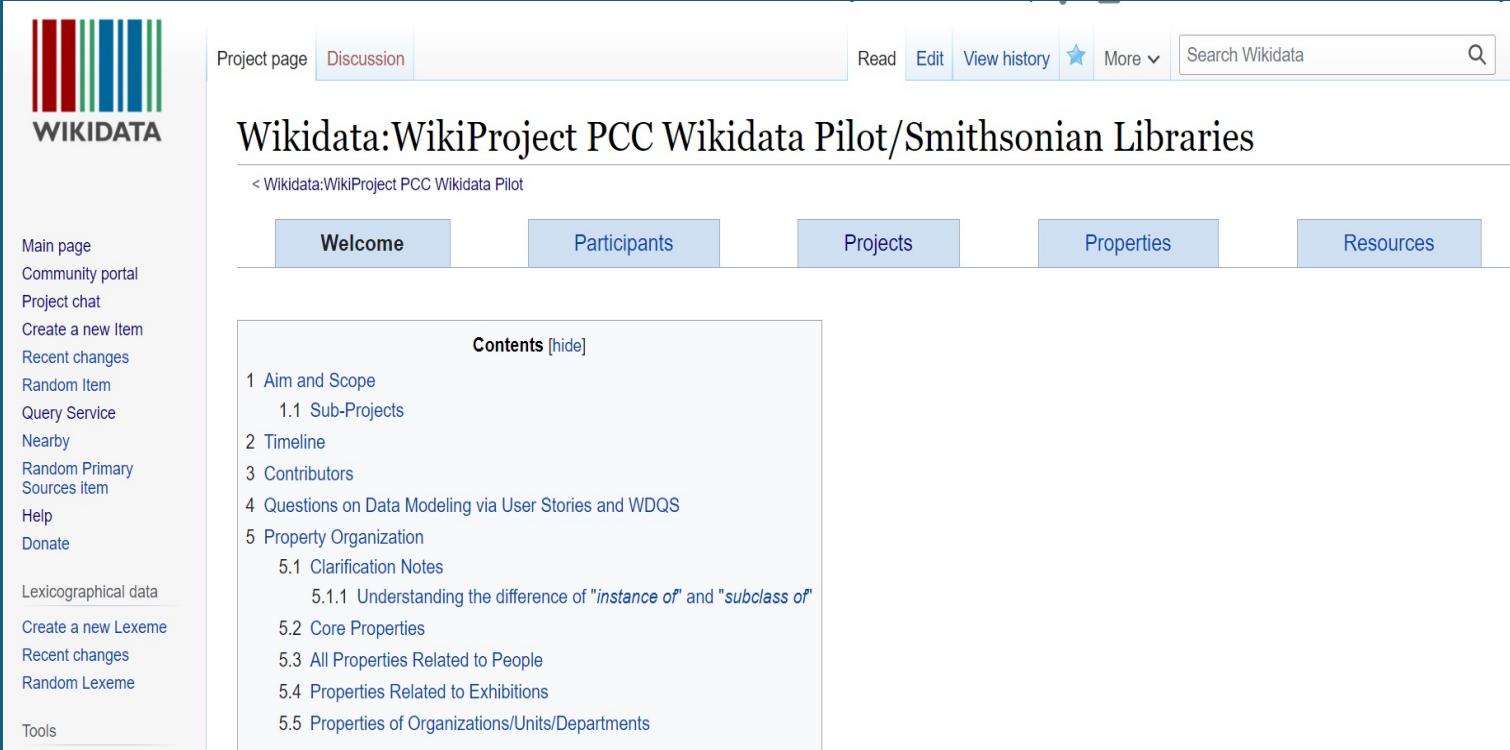
Looking to search Properties? Try [Special:Search](#) and choose Advanced. Then you can select to search properties, items, discussion, or anything else listed.

**Contents [hide]**

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

# PCC Wikidata Pilot: Re-envisioning Name & Subject Authority Files

- The work of SLA's PCC Wikidata Pilot teams will be featured at the DISC Forum on June 23, 2021



A screenshot of a Wikidata project page titled "Wikidata:WikiProject PCC Wikidata Pilot/Smithsonian Libraries". The page includes a sidebar with links like Main page, Community portal, and Project chat. The main content area features a "Contents [hide]" section with a hierarchical table of contents:

1 Aim and Scope	1.1 Sub-Projects
2 Timeline	
3 Contributors	
4 Questions on Data Modeling via User Stories and WDQS	
5 Property Organization	
5.1 Clarification Notes	5.1.1 Understanding the difference of "instance of" and "subclass of"
5.2 Core Properties	
5.3 All Properties Related to People	
5.4 Properties Related to Exhibitions	
5.5 Properties of Organizations/Units/Departments	

# Some resources

- SI PRISM Metadata and Controlled Vocabulary

[sinet.sharepoint.com/sites/Prism-SLA/SitePages/Metadata-and-Controlled-Vocabularies.aspx](http://sinet.sharepoint.com/sites/Prism-SLA/SitePages/Metadata-and-Controlled-Vocabularies.aspx)

- SI PRISM Wikimedia and Linked Data

[sinet.sharepoint.com/sites/Prism-SLA/SitePages/Wikimedia-and-Linked-Data.aspx](http://sinet.sharepoint.com/sites/Prism-SLA/SitePages/Wikimedia-and-Linked-Data.aspx)

- PCC URIs in MARC Pilot

[loc.gov/aba/pcc/pilots/URIs-in-MARC-Pilot.html](http://loc.gov/aba/pcc/pilots/URIs-in-MARC-Pilot.html)

- PCC Wikidata Pilot: Smithsonian Libraries

[wikidata.org/wiki/Wikidata:WikiProject\\_PCC\\_Wikidata\\_Pilot/Smithsonian\\_Libraries](http://wikidata.org/wiki/Wikidata:WikiProject_PCC_Wikidata_Pilot/Smithsonian_Libraries)

- BIBFRAME editors

[bibframe.org/bfe](http://bibframe.org/bfe)

[sinopia.io](http://sinopia.io)



# Thank you!



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