# Western Name Authority File An Open Data Approach to Digital Collections Authority Control

# NISO

Open Data Projects Virtual Conference June 13, 2018

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## Metadata aggregation problems

- Savage, C. R. (Charles Roscoe), 1832-1909
- Savage, C.R. (Charles Roscoe),1832-1909
- Savage, C.R.(Charles Roscoe),1832-1909
- Savage, C.R. (Charles Roscoe)
- Savage, Charles R.
- C. R. Savage (Charles Roscoe Savage and George Ottinger)
- Charles R. Savage
- Savage, Charles Roscoe
- C. R. (Charles Roscoe) Savage, photographer
- Savage, C. R.
- Charles R.
- Savage

Charles R. Savage, perplexed by his many name variants.



Charles R. Savage Classified Photographs Utah Department of Heritage and Arts https://collections.lib.utah.edu/details?id=432964

### More metadata, more metadata problems

- Vendor based DAMS often not offering good authority control solutions
- Use LC Authorities as best we can
- Hosting partner collections = less control over cataloging practices
- Libraries often consult additional regional names sources
  - Daughters of Utah Pioneers name index:

### http://www.dupinternational.org/pioneer\_index.php

Last Name	Given Name	Maiden Name	Birth Date	Death Date
Savage	Adelaide	Cooper	28 Nov 1852	23 May 1935
Savage	Alma		14 Oct 1859	9 Jun 1943
Savage	Annie	Adkins	6 Feb 1836	30 Nov 1893
Savage	Charles Frederick		21 Feb 1868	1951
Savage	Charles Roscoe		16 Aug 1832	3 Feb 1909
Savage	Cornelius		4 Aug 1861	2 Jun 1941
Savage	David Leonard		25 Jul 1810	26 Apr 1886
Savage	Eliseman (Lisiman)	Palmer	10 Sep 1806	14 Nov 1884
Savage	Ellen	Fenn	14 Feb 1843	7 Apr 1925

## **IMLS Grant for regional authority control**

- Investigating data models to express local/regional name authority data using linked data standards
- 2. Evaluation of tools used for creating, maintaining, and making this data available
- 3. Pilot implementation using the selected tool(s)
- 4. Assessment of how this type of authority data can improve digital collection metadata on a local, regional, and national level

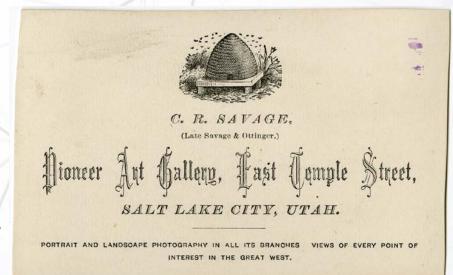


 The Military on campus, University of Utah [09] University Archival Photographs (P0305)
 J. Willard Marriott Library, University of Utah https://collections.lib.utah.edu/details?id=980705

# **Libraries Working Together**

### **Project Partners**

- Brigham Young University
- Oregon Digital (Univ. of Oregon and Oregon State Univ.)
- University of Nevada, Reno
- University of Utah
- University of Denver
- Utah Department of Heritage and Arts
- Utah State Archives
- Utah State University



American Hotel, Salt Lake City, back of carte-de-visite Multimedia Archives Photographs J. Willard Marriott Library, University of Utah https://collections.lib.utah.edu/details?id=983816

# **Libraries Working Together**

UtahStateUniversity	DIGITA	L HISTORY	COLLECT	IONS	Lund Distance	DAS HOME ARCHIVES BUILDING BOARD DFCM
USU Library Home Digital His	story Collections Ho	me H.R. Reynolds Coll	ection Home Brow	se the H.R. Reynolds Collection	Utah Division of Archives and Records Service	RESEARCH OPEN RECORDS RESEARCH GOVERNMENT + MANAGEMENT
Search		within results	Advanced Search	Home	. RECORDS MANAGEMENT > RECORDS DATA	RECORD : OFFICIALLY PRODUCTION
Add or remove other collections to your search:	Browsing items in	n: Harry Reuben Reynolds Pho		Willard Marriott Library ALL U THE UNIVERSITY OF UNIV		
Harry Reuben Reynolds Photograph Collection	Sort by: Title  Display: 100	Display Options	Save to favorites	Search Q Advanced Search	Search agency names:	
Agricultural College of Utah Cyanotypes Collection	📋 Thumbnail	Title •	Description	•		Submit
Alfred G. Erickson Photograph Collection				creator_t   Sort by count   Facet values   1000 uum_*  SuBMIT  Blank Values	Search Results	
<ul> <li>Barre Toelken Fieldwork Image Collection</li> <li>Bear Lake Monster</li> </ul>		1954 New Year's Card, family portrait,	1954 New Year's Card family portrait, Christmas with the	# Count Value	The following links will provide more information about	t the agency and the
Show 77 more		Christmas with the Stark family (1 of 4)	Stark family.	1 416040 2 11568 <u>Tierney, Lennos</u>	records they create: Department of Transportation	
Narrow your search by:	and in case of the local division of the loc			3 4402 Wright-Andy	Department of Transportation. Administrative Services. Management Section	Human Resources
+ Title	<ul> <li>374</li> </ul>	1954 New Year's Card, family portrait,	1954 New Year's Card family portrait,	4 2740 Shipler Commercial Photographers	Department of Transportation. Administrative Services. Management	Office of Risk
Subject (LCSH)	100 ASS	Christmas with the Stark family (2 of 4)	Christmas with the Stark family.	5 2722 Gregory, Herbert E. (Herbert Emest), 1869-1952	Department of Transportation. Administrative Services.	
► ISO Date				6 2209 Johnson-Samuel	Department of Transportation. Administrative Services. Department of Transportation. Aeronautics Committee	Training Section
• Туре	- Arrans	1954 New Year's	1954 New Year's Card	7 1952 Sanborn. D. A. (Daniel Alfred) 1883	Department of Transportation. Bureau of Standards and Department of Transportation. District Five (Cedar City)	d Review
		opaque	namespa	ce.org Vocabularies Predicates		
	Abat	e, Dillon A.	http:	<pre>//opaquenamespace.org/ns/people/AbateDillonA</pre>		
	Abbe	ett, Earl	http:	<pre>//opaquenamespace.org/ns/people/AbbettEarl</pre>		
	Abbe	ey, Bill	http:	//opaquenamespace.org/ns/people/AbbeyBill		

## **Data Models: Collaborative Investigation**

### Data to capture

- Preferred form of name
- Alternate forms of name
- Local authority source
- Institution holdings
- Relationship information

### Data Models Explored

- SKOS
- OWL
- BIBFRAME Authorities/Agent/Role
- EAC-CPF

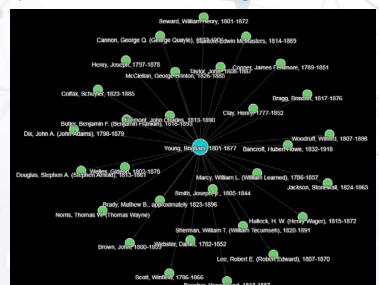


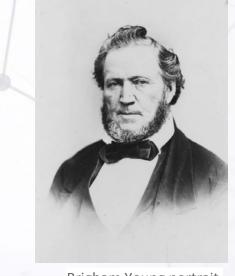
Japanese in Utah Masaoka, Mrs. Mike; Masaoka, Mike M.; Mukaeda, Katsuma Peoples of Utah Utah Department of Heritage and Arts https://collections.lib.utah.edu/details?id=508152

## Encoded Archival Context -Corporate Bodies, Persons, and Families

- EAC-CPF <u>http://eac.staatsbibliothek-berlin.de</u>
- SNAC (Social Networks and Archival Context)

http://socialarchive.iath.virginia.edu/index.html





Brigham Young portrait Extension, Enterprise, and Education: the Legacy of Co-operatives and Cooperation in Utah Utah State University http://digital.lib.usu.edu/cdm/ref/collection/coops/id/1708

# Metadata wrangling (data submitted)

Savage, Annie Adkins Savage, Annie Amelia Savage, C. R. Savage, C. R. (Charl Savage, C. R. (Charl Savage, C.R. Savage, Carlton Savage, Charles R. Savage, Charles R. C. R. (Charles Roso Savage, Charles Roso Savage, Charles Roso Savage, Charles Roso Savage, Charles Roso Savage, Charles Roso Savage, Charles Roso	es Roscoe es Roscoe 1832-1909 oscoe), 18 coe	) ), 1832 USE Sa	avage,	<pre>{"@id":http://opaquenamespace.org/ns/people/SavageCarlton", "@type": "skos:Concept", "dc:issued": {"@value": "2016-03-16", "@type": "xsd:date"}, "dc:modified": {"@value": "2016-03-16", "@type": "xsd:date"}, "rdfs:comment": {"@value": "University of Oregon alumnus?", "@language": "en"}, "rdfs:label": {"@value": "Savage, Carlton", "@language": "en"} }, Barron, Mrs. M. (child) MSS C C. R. Savage Company Portrait Collection, ca. 1920s 31115 Names associated with the image can refer to the individual photographed or the individual who commissioned the photograph</pre>
1	2015	SD	Americ	States     AAI
	2013	SD	Ascent	at Academies of Utah AAU
		SPD	Alpine	ne Conservation District (Utah) ACD
	1935	SG	Depart	tment of Alcoholic Beverage Control ACM ABC

## Metadata wrangling (data compiled and deduplicated)

Name	Institution;Collection;field	type	# of collections	# of institutions
Savage, C. R. (Charles Roscoe), 1832-1909	BYU;Savage;photographer BYU;YWJ;author USHS;Classified Photos;Person USU;bear;photographer USU;westernphotos;creator UU;Hotel Utah;Photographer/Studio UU;UAIDA;Creator	PN	25	4
Savage, C. R.	BYU;Diaries;personal names USHS;Classified Photos;Person USHS;Classified Photos;Photographer BYU;DUP;personal names USU;westernphotos;publisher	PN	5	3
C. R. Savage	BYU;RSMag;creator USHS;Classified Photos;Photographer	PN	2	2
Savage, Charles R.	USHS;Classified Photos;Person USHS;Classified Photos;Photographer	PN	2	1
Savage, C. R. (Charles Roscoe)	USHS;Classified Photos;Photographer	PN	1	1
Savage, Chas. R.	USHS;Classified Photos;Photographer	PN	1	1

## Metadata wrangling (data reconciled)

Name	LCNAF Name	LCNAF URI
Savage, Charles Roscoe	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
C. R. Savage	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
C.R. Savage	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
Savage, Charles	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
Savage, Charles R.	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
Savage, C. R. (Charles Roscoe)	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
Savage, C.R. (Charles Roscoe)	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
Savage, Chas. R.	Savage, C. R. (Charles Roscoe), 1832-1909	http://id.loc.gov/authorities/names/n84131226
Savage, Levi	Savage, Levi, 1820-1910	http://id.loc.gov/authorities/names/no2012015057
Savage. M. W. (Marmion Wilard), 1803-1872	Savage. M. W. (Marmion Wilard), 1804-1872	http://id.loc.gov/authorities/names/n82155076
Savage, Roscoe E.	Savage, R. E. (Roscoe Eddington), 1858-1945	http://id.loc.gov/authorities/names/no2015126331
Savage, Carlton	Savage, Robert Carton, 1914-1987	http://id.loc.gov/authorities/names/n91069047

### Metadata wrangling (data removed from pilot project)

Brother Adams Brother Adamson Brother Aitken Brother B

Elder Ain Elder Battersbay Elder Benberton Elder Burbidge

Sister Acorn Sister Adamson Sister Bull Sister Bywater

Bishop Edwin F. Parry Bishop Frank Brown Bishop Hoagland Bishop Puttin Dr. Dr. Crouch Dr. Gelein Dr. Ormsby Mr. Atwood Mr. Banker Mr. Banker Mr. Bomegardner Mr. Bruce Mrs. Benson Mrs. Defrew Mrs. Hayes Mrs. Nichols

President Bollintine President Brenerton President Brist President Christianson Captain Anknin Captain Barnes Captain Bretney Captain Bulock A. A. B.

A. B. A. B. C. A. B. L. A. C. C. A. M. P. O.

Aaron

### Metadata wrangling (NACO work)

LCNAF Authorized Form	LCCN
Neilson, N. P. (Neils Peter), 1895-	no2012067295
Groberg, Delbert V., 1906-	n86859283
Quinn, Mildred D., 1908-	n78095395
Howard, Quentin, 1908-	n87852664
Clark, James R., (James Ratcliffe), 1910-	no2010206394
Haglund, Elizabeth, 1914-	n80135182
Dougherty, Thomas F. (Thomas Francis), 1915-	n85814883

Savage, Annie Adkins (Mother) Savage, Annie Adkins, 1836-1893 Savage, Annie Amelia Savage, Fannie Savage, George L. Savage, Ida May Savage, Julia M Savage, Julie Paige Hemming Savage, Kellie Savage, Kristin Savage, Lana Snow Savage, Lenny Louise Savage, Levi Mathers Savage, Luacine Annette Savage, Meda Savage, Nilson Savage, Ralph G. Savage, Ray T. Savage, Rudy C. Savage, Sarah, 1860-1932 Savage, Stephen R.

# Metadata wrangling (NACO work)

100\$a1\	400\$a1\	046\$f	370\$a	670\$a	670\$a
Foote, Georgie Clawson,\$d18 60-1944	Foote, Georgia Clawson,\$ d1860- 1944	1860-04- 20\$g1944 -10- 22\$2edtf	Salt Lake City (Utah)\$bSalt Lake City (Utah)\$2naf	Hiram B. Clawson papers, 1846- 1947\$b(Georgie Clawson Foote)\$uhttp://archiveswest.orbiscascade.org/ ark:/80444/xv59963	Correspondence from Georgie Clawson Foote, 1881-1894\$b(Georgie Clawson Foote; Georgia ("Georgie") Clawson Foote)\$uhttps://collections.lib.utah.edu/details?id=8 67663&q=Foote%2C+Georgia+Clawson+%28Geor gie%29%2C+1860-1944
Kesler, Frederick,\$d1 816-1899		1816-01- 20\$g1899 -06- 12\$2edtf	Crawford County (Pa.)\$bSalt Lake City (Utah)\$2naf	Frederick Kesler papers, 1837- 1899\$b(Frederick Kesler; born 20 January 1816, Crawford County, Pennsylvania; joined LDS Church in 1840; died in Salt Lake City on 12 June 1899)\$uhttp://archiveswest.orbiscascade.org/ ark:/80444/xv16976/op=fstyle.aspx?t=k&q=Ke sler%2c+Frederick%2c+1816-1899	
Smith, Lucy Brown,\$d1821 -1895	Brown, Lucy,\$d18 21-1895	1821-01- 04\$g1895 -04- 04\$2edtf	Biggleswade (England)\$bSalt Lake City (Utah)\$2naf	George A. Smith family papers, 1731- 1969\$b(Lucy Brown; Lucy Brown Smith; born in England on 4 January 1820; joined the Mormon church in 1842)\$uhttp://archiveswest.orbiscascade.org/ ark:/80444/xv66580	Find a grave, website viewed 26 March 2018\$b(Lucy Brown Smith; born 4 Jan 1821, Biggleswade, Central Bedfordshire Unitary Authority, Bedfordshire, England; died 4 Apr 1895, Salt Lake City, Salt Lake County, Utah)\$uhttps://www.findagrave.com/memorial/2511 1288/lucy-smith
Smith, Lucy Emily Woodruff,\$d1 869-1937	Smith, Lucy Woodruff,\$ d1869- 1937	1869-01- 10\$g1937 -11- 05\$2edtf	St. Thomas (Ariz.)\$bSalt Lake City (Utah)\$2naf	George A. Smith family papers, 1731- 1969\$b(Smith, Lucy Emily Woodruff, 1869- 1937; died 5 November 1937, Salt Lake City; born 10 January 1869, St. Thomas, Arizona; attended University of Utah; member of LDS church; )\$uhttp://archiveswest.orbiscascade.org/ark:/8 0444/xv66580	Lucy Woodruff Smith correspondence: Edith Ann Smith letters, April 1910\$b(Lucy Woodruff Smith)\$uhttps://collections.lib.utah.edu/details?id=8 55625&q=Smith%2C+Lucy+Woodruff%2C+1869- 1937

## Investigating tools/frameworks (systems to test)

Opaque Namespace Controlled Vocabulary Manager redis

TEMATRES

VocBench 2.0

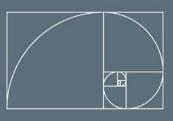
Vitro

Refine

Skosmos

ena

iQvoc



ThManager

OLLECTIVE CCESS

omeka s

### **Investigating tools/frameworks** (evaluation matrix)

Name	Website	Description	Local URL	General Impressions/testing notes
XEAC	https://github.co m/ewg118/xEA C	Beta software, used by the American Numismatic Society	xeac.staging.lib .utah.edu	Not investigated - Proved to be too difficult to install in our sandbox environment
Apache Jena	https://jena.apa che.org/	"A free and open source Java framework for building Semantic Web and Linked Data applications."	jena.staging.lib. utah.edu	Not investigated, but keep in mind if we have more development support in the future
TemaTres	http://www.voca bularyserver.co m/	"an open source vocabulary server, web application to manage and exploit vocabularies, thesauri, taxonomies and formal representations of knowledge."	https://tematres .staging.lib.utah .edu	Good for simple vocabularies. Additional granularity could be accomplished by putting more information in notes and meta-terms, and/or adopting custom URL scheme to contain additional elements of descriptive information about our vocabulary.
Collective Access	http://www.colle ctiveaccess.org /	"CollectiveAccess is software for describing all manner of things, and allows you to create catalogues that closely conform to your needs without custom programming."	https://collectiv eaccess.stagin g.lib.utah.edu	Highly customizable and configurable, but may take an additional time investment to discover if it will work well for how we are structuring WNAF. Can define custom vocabularies. Out of the box entity management functions match up with some elements from EAC-CPF. Integration with external vocabularies like LCNAF and ULAN.

## OmekaS

- Started using for unrelated project (new Digital Exhibits Program)
- Realized it had the functions we were looking for:
  - \* custom vocabularies
  - \* API (to support reconciliation),
  - \* publish data as JSON-LD
  - \* search and discovery layer
  - \* editing functionality

TOUR MODULES THEMES DOWNLOAD USER MANUAL DEVELOPER DOCUMENTATION FORUMS

### Omeka S

Omeka S is a next-generation web publishing platform for institutions interested in connecting digital cultural heritage collections with other resources online.

Download v1.0.1 OF Try the sandbox

## **Vocabularies in OmekaS**

### Vocabularies

Import new vocabulary

1 of 1 < > 1-7 of 7				Label 🗘	Ascending \$ Sort
Label			Prefix	Classes	Properties
Bibliographic Ontology	den i	<b></b>	bibo	58	67
Century of Black Mormons	ø* i	<b></b>	CBM	10	28
Dublin Core		***	dcterms	22	55
Dublin Core Type			dctype	12	0
EAC-CPF	Ø* 1	<b></b>	EAC-CPF	110	107
Friend of a Friend	ø* i	<b></b>	foaf	13	62
gedcom	(A) 1		gedcom	9	16

1 of 1 < > 1-7 of 7

## EAC-CPF in OmekaS

	RESOURCE TEMPLATES	WNAF		Delete Sa	ive
2	Label *	WNAF		Click on a property to add it to the edit panel.	
	Suggested class	EAC-CPF: eac-cpfType	x <del>v</del>	Filter properties	
	≡ Title		🧨 🛅	DUBLIN CORE (55)	•
	$\equiv$ authorizedForm		/ 🗇	BIBLIOGRAPHIC ONTOLOGY (67)	•
_			/ 🗊	FRIEND OF A FRIEND (62)	•
	≡ existDates		··· / 面	EAC-CPF (107)	•
	⊟ localControl		/ 🗊	GEDCOM (16) CENTURY OF BLACK MORMONS (28)	•
	$\equiv$ maintenanceAgency		··· 🖉 🛅		
	$\equiv$ occupation		/ 🛅		
	placeEntry		🥒 🛅		
	resourceRelation		··· 🖉 🛅		
	$\equiv$ Relation		··· /* 🛅		
	Spatial Coverage		··· / 🗇		

### **Bulk Metadata Imports**

CSV IMPORT	Past Imports					Submit
1 of 4 <	> 1-25 of 80					
Undo?	Job ID	Comment	Imported content	Date	Status	Owner
	133	n-z	Added: 13373 items	May 14, 2018	completed	Anna Neatrour
8	132	3rd WNAF upload J- M	Added: 11209 items	May 13, 2018	completed	Anna Neatrour
	131	wnaf 2nd set of names D-1	Added: 12805 items	May 11, 2018	completed	Anna Neatrour
	130	trying again for A-C names, this time with no duplicates	Added: 12768 items	May 10, 2018	completed	Anna Neatrour
	128	spreadsheet exported from OpenRefine, A-C	Added: 12768 items	May 9, 2018	completed	Anna Neatrour
0	125	3rd try, export from open refine	Added: 12768 items	May 9, 2018	Undone May 9, 2018	Anna Neatrour
8	124	Job started	Added: 0 items	May 9, 2018	error	Anna Neatrour
0	123	Job started	Added: 0 items	May 9, 2018	error	Anna Neatrour

## **Corporate Name Searching**

### J. Willard Marriott Library 50 ALL U Western Name Authority File About the Western Name Authority File (WNAF) Personal Names Corporate Names Items Search zion's co-operative 1 of 1 < > 1-2 of 2 Zion's Co-operative Mercantile Institution

### Zion's Co-operative Fish Association

### Zion's Co-operative Mercantile Institution

ITEM

#### Title

Zion's Co-operative Mercantile Institution

authorizedForm Zion's Co-operative Mercantile Institution

#### alternativeForm

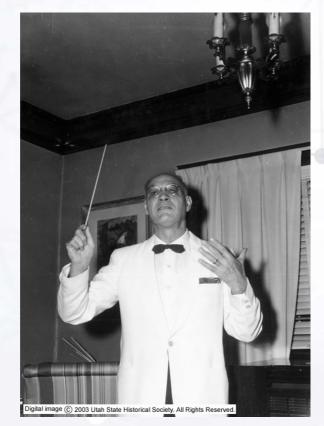
Zion's Co-operative Mercantile Institution (ZCMI) Zion's Co-operative Mercantile Institution Zion's Cooperative Mercantile Institution Zions' Corporate Mercantile Industry (ZCMI) Zions Cooperative Mercantile Institution ZionĂţâ,¬â,ţs Corporate Mercantile Industry (ZCMI) Z. C. M. I. Z. C. M. I. Z. C. M.I.

localControl CB000010687

maintenanceAgency

Brigham Young University

### Sample Record



Maurice Abravanel in his home, Utah State Historical Society Classified Photo Collection, https://collections.lib.utah.edu/detail s?id=430068

### Abravanel, Maurice, 1903-1993

#### ITEM

#### Title

Abravanel, Maurice, 1903-1993

authorizedForm

Abravanel, Maurice, 1903-1993

#### alternativeForm

Abravanel, Maurice, 1903-DeAbravanel, Maurice, 1903-De Abravanel, Maurice, 1903-Abravanel, Maurice

existDates 1903-1993

localControl PN000000157

#### maintenanceAgency

Brigham Young University Utah Department of Heritage and Arts University of Utah

#### resourceRelation

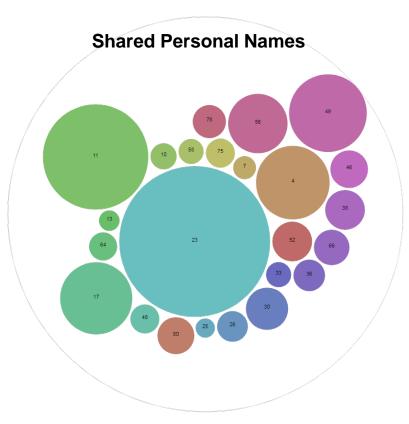
http://contentdm.lib.byu.edu/cdm/search/collection/BYUPhotos https://collections.lib.utah.edu/search?facet\_setname\_s=dha\_cp http://archiveswest.orbiscascade.org/ http://archiveswest.orbiscascade.org/

Spatial Coverage Utah

entityId http://id.loc.gov/authorities/names/n82101126

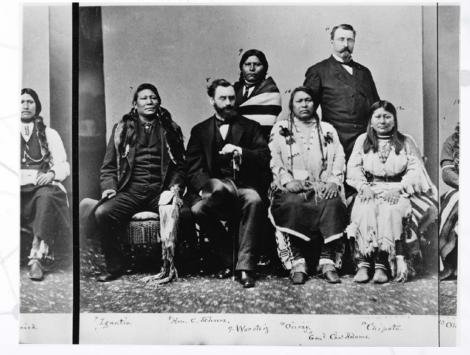
### Visualization of Collection





# **Pilot Implementation**

- Perform full evaluation of OmekaS
- Student assistant work
- Enrich data with relationships and collections holding information
- Set up an OpenRefine reconciliation service for the WNAF
- Develop and revise collaborative workflows
- Leverage OmekaS API



Ignatio, Hon. C. Shurtz, Woretsiz, Ouray, Gen. Chas. Adams, Chipeta Utah American Indian Digital Archive (UAIDA) University of Utah https://collections.lib.utah.edu/details?id=358790

### **Assessment** (statistics)

SQLlite database, use python requests library to query DPLA API - get stats on coverage for name variants in MWDL and DPLA.



Salt Lake Hardware Company Baseball Team Shipler Commercial Photographers Collection Utah Department of Heritage and Arts https://collections.lib.utah.edu/details?id=528631

Search results in December 2016	Cre	ator	Subject		
Name	MWDL	DPLA	MWDL	DPLA	
Savage, C. R.	2022	2226	44	50	
Savage, C. R. (Charles Roscoe)	1830	2023	43	44	
Savage, C. R. (Charles Roscoe), 1832- 1909	1708	1901	43	43	
Savage, C. R., 1832-1909	1708	1901	43	43	
Savage, Charles	1936	2165	60	126	
Savage, Charles R.	1932	2128	58	65	
Savage, Charles R., 1832-1909	1708	1902	43	43	
Savage, Charles Roscoe	1833	2034	44	53	
Savage, Charles Roscoe, 1832-1909	1708	1904	43	43	
Savage, Charles, 1832-1909	1708	1905	43	43	
Savage, Chas. R.	1	1	0	1	
Savage, Chas. R., 1832-1909	0	0	0	0	

### **Future Directions**

- What does full implementation look like?
- How can an open data set like this be leveraged for other DPLA service hubs?
- What are other digital libraries doing with name authority in their collections?



SUSAN B. ANTHONY WITH A GROUP OF UTAH AND OTHER WOMEN SUFFRAGE LEADERS

First row, left to right: Zina D. H. Young; Rev. Anna Howard Shaw; Susan B. Anthony; Sarah M. Kimball, then president of Utah Women's Suffrage Association; Lyle Meredith Stansbury of Deaver, Colorado.

Second row: Mary C. C. Bradford of Denver, Colorado; Margoret A. Colne; Electa Bulleck; Dr. Martha Hughes Connon; Phoebe Y. Beattie; Augusta W. Rebecca M. Little; Augusta W. Grant. Of all the women in this picture, Augusta Winters Grant is the only one new living.

THE IMPROVEMENT ERA

Women Suffrage Leaders P.02 Classified Photographs Utah Department of Heritage and Arts https://collections.lib.utah.edu/details?id=454440

## Further reading and acknowledgements

**Grant Narrative** https://www.imls.gov/grants/awarded/LG-72-16-0002-16

**Project Webpage** https://sites.google.com/site/westernnameauthorityfile/home

Western Name Authority File Online

https://exhibits.lib.utah.edu/s/wnaf/

Jeremy Myntti (@jmyntti) Anna Neatrour (@annaneat)



**J. Willard Marriott Library** 

THE UNIVERSITY OF UTAH

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