

The Western Name Authority File:

Building shared authorities for regional digital collections

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Why?

Metadata problems when collections are aggregated:

- 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), Pioneer Art Gallery, East Temple Street, Salt Lake City, Utah
- Charles R. Savage
- Savage, Charles Roscoe
- C. R. (Charles Roscoe) Savage, photographer
- Savage, C. R.
- Charles R.



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

Charles R. Savage
Utah State Historical Society Classified Photograph Collection
<https://collections.lib.utah.edu/details?id=432953>

More metadata, more metadata problems

- Vendor based DAMS often not offering good authority control solutions
- Libraries in Utah 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
Allred	Ellen	Shepherd	12 May 1845	15 Dec 1928
Ashworth	Mary Elizabeth	Shepherd	24 Mar 1854	11 Apr 1932
Bailey	Charlotte	Shepherd	7 May 1848	7 Jul 1937
Barney	Priscilla Ann	Shepherd	4 May 1842	2 Nov 1916
Blackham	Priscille Ann	Shepherd	4 May 1842	20 Sep 1916
Davidson	Lydia	Shepherd	16 Sep 1836	
Derrick	Mary	Shepherd	12 Aug 1812	17 Feb 1886
Hartley	Ellen	Shepherd	9 Dec 1854	27 Oct 1918
Home	Mary Park	Shepherd	13 Nov 1836	28 Apr 1924
Justesen	Sarah Ann	Shepherd	4 Sep 1842	8 Aug 1933
Miller	Ann	Shepherd	8 May 1825	27 Mar 1910

- Hosting collections for many partners means less control over cataloging practices.
- Use LC Authorities as best we can

Grant Outline

Initial Plan

1. Investigation
 - a. May 2016 - October 2016
2. Evaluation and Testing
 - a. November 2016 - April 2017
3. Pilot Implementation
 - a. May 2017 - October 2017
4. Assessment and Future Planning
 - a. November 2017 - April 2018

Current Reality/Gaps

- Testing phase lasting longer
- Have sped up future assessment activities by scripting statistics gathering through leveraging DPLA API

Collaborating with other institutions

Project partners include:

- Utah State University
- Brigham Young University
- Utah State Archives
- University of Oregon
- University of Nevada, Reno
- University of Denver

Advisory Board:

- Kevin Ford, Art Institute of Chicago
- Gretchen Gueguen, DPLA
- Eric Miller, Zepheira
- Philip Schreur, Stanford

"Looking Across Donner Lake - To the Summit" - Two people visible in small boat
Utah State University
Western Photographers

<http://digital.lib.usu.edu/cdm/ref/collection/westernphoto/id/779>



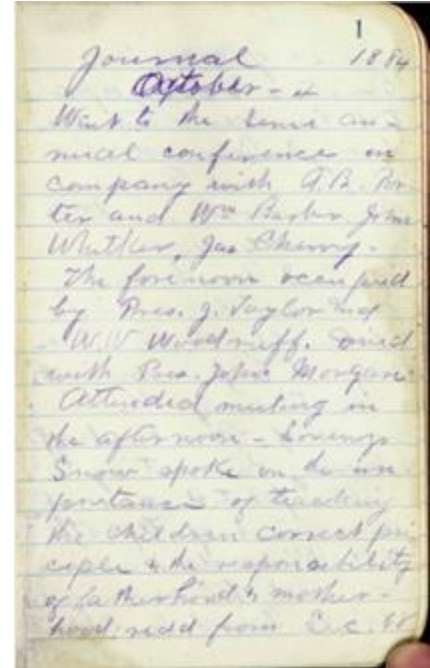
Phase 1: data model review

Data to capture

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

EAC-CPF

- Discussed possibilities for data modeling with partners
- Based on data samples received and goals for project, thought EAC-CPF best fit our needs



Diary of B. H. Roberts, 1884-1885, page 1
<http://content.lib.utah.edu/cdm/ref/collection/uw/id/3069>

Phase 1: metadata wrangling (data submitted)

Miller, John N.
Miller, P. B.
Mizpah
Mogo, Margaret
Monroe
Montgomery, S. H.
Moody, William
Moore, Eri James
Morgan, David D.
Morgan, John
Morley, Isaac
Morris, R. M.
Morriss, R. M.
Mundock, John

National Ballet (Washington, D.C.)
Fauth & Co
Colorado Repertory Dance Company
Colorado School of Mines
Welgos Photos
De Bellis Studios
Colorado State College (Fort Collins, Colo.)

```
{
  "@id": "http://opaquenamespace.org/ns/people/AbdulBassitJalila",
  "@type": "skos:PersonalName",
  "dc:issued": {
    "@value": "2015-07-16",
    "@type": "xsd:date"
  },
  "dc:modified": {
    "@value": "2015-07-16",
    "@type": "xsd:date"
  },
  "rdfs:isDefinedBy": {
    "@id": "http://opaquenamespace.org/VOCAB_PLACEHOLDER.nt"
  },
  "rdfs:label": {
    "@value": "Abdul-Bassit, Jalil A.",
    "@language": "en"
  },
}
```

```
1 Title Description Photographer Image Date Subject
Location Collection Digital Publisher Contributing
Institution Ordering and Permissions Information
Date Digital Donor Image ID Digitization
Specifications Resource Type Format Language OCLC
number Date created Date modified Reference URL
CONTENTdm number CONTENTdm file name CONTENTdm file path
2 Quilici Barn, Reno Photograph of a barn built between
1900 and 1910; photograph taken August 31, 2002;
photographic print, 8 x 10 inches Barnes, Catana L.
2002 Barns -- Nevada Reno (Nev.); Washoe County;
Nevada Sagebrush Vernacular: Rural Architecture in
Nevada Special Collections Department, University of
Nevada, Reno Library University of Nevada, Reno Not to
be reproduced without permission. For permissions
information, please see:
http://knowledgecenter.unr.edu/speccoll/photos.aspx To
order a copy of this image, add it to your favorites, then
visit the shopping cart located here:
http://contentdm.library.unr.edu/shoppingcart/index.php
2003 UNRS-P2003-13-109 These images exist as
archived TIFF images and one or more JPEG versions for
general use. Image image/tiff eng 2003-04-23
2014-10-09
```

Phase 1: metadata wrangling (data compiled)

	A	B	C	D	E
1	Name	Institution	Collection	type	field
2	Savage, Charles R.	USHS	Classified Photos	personal name	Person
3	Savage, Charles R.	USHS	Classified Photos		Photographer
4	Savage, Charles R., 1832-1909 USE Savage, C. R. (Charles Roscoe), 1832-1909	BYU	Savage		photographer
5	Savage, Charles R.;	USHS	Classified Photos		Photographer
6	Savage, Charles R.; Savage, Lenny Louise; Savage, Annie Amelia; Savage, Ray T.	USHS	Classified Photos	personal name	Person
7	Savage, Charles Roscoe	BYU	mormon bib		author
8	Savage, Charles Roscoe, 1832-1909 USE Savage, C. R. (Charles Roscoe), 1832-1909	BYU	DUP	personal name	personal names
9	Savage, Chas. R.	USHS	Classified Photos		Photographer
10	Young, S. A.	Oregon		personal name	
11	Young, Seraph	USHS	Classified Photos	personal name	Person
12	Young, Seymour B.	USHS	Classified Photos	personal name	Person
13	Young, Seymour B. (Seymour Bicknell), 1837-1924; Young, Isaac Bray;	UU	John Mills Whitaker Papers		Creator
14	Young, Shirrel R.	USHS	Classified Photos		Photographer
15	Young, Stuart Michael;	UU	UAIDA		Creator
16	Young, Susan (Susannah) Snively	USHS	Classified Photos	personal name	Person
17	Young, Trevor	DU		personal name	
18	Young, Virginia; Young, Josephine; Lyon, Camilla; Compson, Lucine	USHS	Classified Photos	personal name	Person
19	Young, Whitney	Oregon		personal name	
20	Young, Whitney M.	DU		personal name	
21	Young, Willard	USHS	Classified Photos	personal name	Person

Phase 1: metadata wrangling (data deduplicated)

	A	B	C	D	E	F
	Name	Institution;Collection;field	type	# of collections	# of institutions	# of states
1	Young, Brigham, 1801-1877	UU;EAD;n/a -- BYU;DUP;personal names -- BYU;GEA;personal names -- BYU;DUP;personal names -- BYU;GEA;personal names -- BYU;19th Century Mormon	PN	29	3	1
2	Anderson, John	UU;EAD;n/a -- BYU;Diaries;personal names -- BYU;DUP;personal names -- DU;n/a;n/a -- USHS;Classified Photos;Person -- UU;John Mills	PN	6	4	2
3	Jackson, William Henry, 1843-1942	BYU;Jackson;personal names -- BYU;Jackson;photographer/artist -- BYU;OTImages;photographer/artist/creator --	PN	6	4	2
4	Savage, C. R. (Charles Roscoe), 1832-1909	BYU;DUP;personal names -- BYU;GEA;personal names -- BYU;Savage2.;personal names -- BYU;Savage;personal names -- BYU;DE1;author -- BYU;DE2;author --	PN	25	4	1
5	Utah Fuel Company	UU;EAD;n/a -- BYU;RSMag;company name -- USHS;Classified Photos;Corporate Body -- USU;Lee;creator	CB	4	4	1
6						

Phase 1: metadata wrangling (data metrics)

- Started with ~500,000 names
- Deduplicated to 76,360
- 7357 -- 2+ collections (9.6%)
- 1484 -- 2+ institutions (1.9%)
- 271 -- 2+ states (0.35%)

- 62,381 personal names
- 10,706 corporate bodies
- 3,273 unknown

- 1091 are single words
- 2400+ cross references
- 500+ PN are First Last

Total names submitted

- Brigham Young University - 30,535
- University of Utah - 7533
- Utah State University - 2067
- Utah State Historical Society - 12,138
- Utah State Archives - 3657
- University of Nevada, Reno - 1277
- Oregon Digital - 4170
- University of Denver - 16,608

Gaps: Building Database of Local Names

- Initial process extremely time consuming
- Some automated processing, but plenty of manual effort
- How best to onboard additional bulk lists of names/collection metadata exports from institutions once we want to expand?
- Might need to establish standardized way of submitting?
- Pilot is lopsided/incomplete in regional coverage

Phase 2: investigating tools (evaluation matrix)

<https://goo.gl/wMQRbY>

Name	Ready for Testing?	Local URL	Technical Support Requirements	Software type (backend, middleware, framework, complete solution)	Batch Import Support	Batch editing of controlled vocabulary terms	LOD publishing
Skosmos		skosmos.stagin.g.lib.utah.edu	From website: "one or more SKOS vocabularies PHP capable web server SPARQL triple store (we recommend Apache Jena Fuseki with jena-text) HTTP cache (e.g. Varnish) - optional but recommended"	complete solution			
Collective Access	Yes	https://collectiveaccess.stagin.g.lib.utah.edu	Apache, PHP, MySQL http://docs.collectiveaccess.org/wiki/Requirements	complete solution			

Investigating tools - areas evaluated

- Technical Support Requirements
- Software type (backend, middleware, framework, complete solution)
- Batch Import Support
- Batch editing of controlled vocabulary terms
- LOD publishing
- Advanced search capabilities
- Browse capabilities
- API availability
- Data visualization
- Open Source Software Development Support
- SPARQL Endpoint
- Ease of Installation
- Ongoing support considerations
- Time to be installed
- Triple Store dependency

Phase 2: investigating tools/frameworks

TemaTres



ThManager

VocBench 2.0

Opaque Namespace
Controlled Vocabulary
Manager

redis



CA COLLECTIVE
ACCESS



Skosmos

Vitro

Gaps: Vocabulary Management Tools

- Will likely end up using a mix of software for name management and additional processing to produce what we want
- Is there one tool to rule them all?
- Testing process taking longer than expected, but moving forward.

Phase 3: pilot implementation

- Perform full evaluation of selected software - harvest, standardize, reconcile, and import controlled vocabulary information into the software of choice and make data available as LOD
- Hire and train student assistant to facilitate data entry, vocabulary reconciliation and enrichment, research, vocabulary maintenance, and assessment tasks.
- Enrich data with relationships and collections holding information.
- Explore the possibility of setting up an OpenRefine reconciliation service for the vocabulary.
- Develop and revise collaborative workflows.

Phase 4: assessment (workflows)

- Reconciliation issues - Gaps
 - Many partners on CONTENTdm
 - Need external system not tied to specific digital library software/infrastructure
- Explore impact of WNAF on metadata creators and users
- Managing vocabulary
- Training opportunities



Block Prints of Lennox and Catherine Tierney Private Art Collection [002]: Geisha under Flowering Tree
Lennox and Catherine Tierney Photograph Collection
<https://collections.lib.utah.edu/details?id=329534>

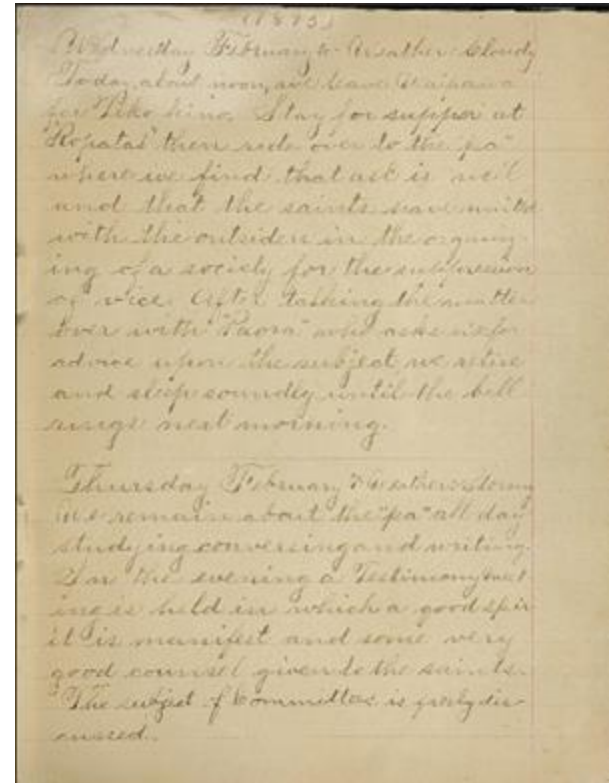
Phase 4: assessment (statistics)

Search results in December 2016	Creator		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

Phase 4: assessment (expanding use)

- Develop a plan for expanding the controlled vocabulary to more institutions.
- Consider what would be needed to move into full production for the project.

Thomas Jefferson O'Brien journal commencing Feb. 6, 1895
https://collections.lib.utah.edu/details?id=1042220#t_1042220



Further reading and acknowledgements

Full Grant Narrative

<https://www.imls.gov/grants/awarded/LG-72-16-0002-16>

Project Webpage

<https://sites.google.com/site/westernnameauthorityfile/home>

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