

# Exposing Hidden Digital Collections: DAMS Migration to Better Meet our Users' Needs

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**J. Willard Marriott Library**

THE UNIVERSITY OF UTAH

# Acknowledgements

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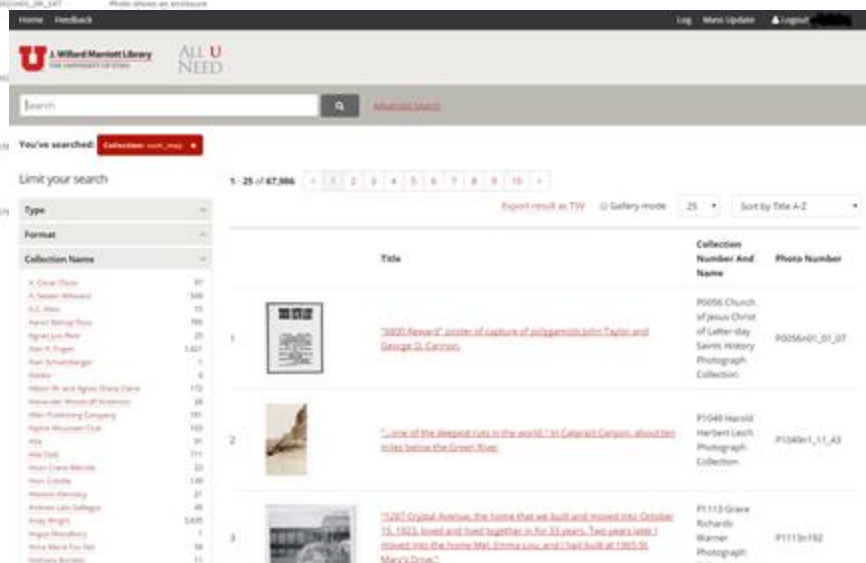
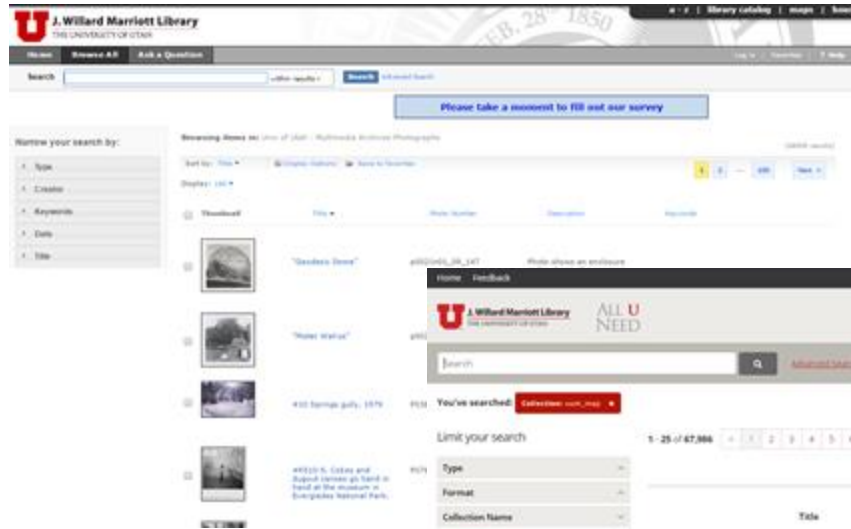
# Exposing Hidden Digital Collections Overview

1. Pre-migration work

2. Migration

3. Post-migration work

4. Lessons learned



# Exposing Hidden Digital Collections Overview

## 1. Pre-migration work

## 2. Migration

## 3. Post-migration work

## 4. Lessons learned

The screenshot shows the J. Willard Marriott Library website. The header includes the library name and a search bar. Below the search bar, there are navigation links and a survey prompt. The main content area displays search results for 'Needles Drive', including a thumbnail image and a list of items. The items are listed with their titles, collection names, and photo numbers.

Title	Collection Name	Photo Number
Needles Drive	4000000_00_00	
Needles Drive	4000000_00_00	
4000000_00_00	4000000_00_00	
4000000_00_00	4000000_00_00	

The screenshot shows the J. Willard Marriott Library website with search results for '1900 Denver'. The header includes the library name and a search bar. Below the search bar, there are navigation links and a survey prompt. The main content area displays search results for '1900 Denver', including a thumbnail image and a list of items. The items are listed with their titles, collection names, and photo numbers.

Title	Collection Name	Photo Number
1900 Denver	1900 Denver	
1900 Denver	1900 Denver	
1900 Denver	1900 Denver	

# Arabic Papyrus, Parchment, and Paper



# Western Soundscape

# American Westward Migration



# Marriott Library Digital Collections

269 collections

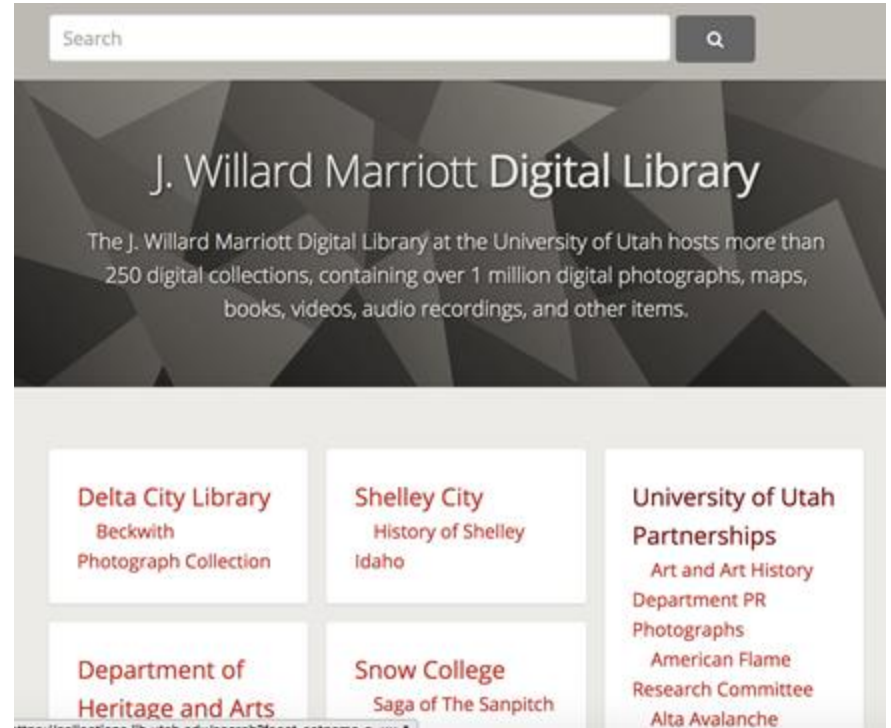
717,858 IEs (items)

139,583 compound objects

12 file types (images, videos, pdfs...)

3 TB storage

Over 50 partners (internal and external) hosting collections with the Marriott Library



<https://collections.lib.utah.edu/>

# Utah Digital Newspapers (UDN)

20,486,341 articles

1,887,528 pages

135 newspaper titles

Originally setup for article level data  
in newspapers, not page level

Some NDNP projects

Many unique papers not in  
Chronicling America



The screenshot shows the homepage of the Utah Digital Newspapers website. At the top, the title "Utah Digital Newspapers" is prominently displayed in a large, black, serif font, with the tagline "Creating Citizen Historians" underneath it. Below the title is a navigation bar with five tabs: "Home", "Browse by County", "Newspaper Holdings", "Utah Newspaper Hall of Fame", and "Contact". The main content area is divided into several sections. On the left, there is a search section titled "Search All Newspapers" with a search box and a "Go" button. Below this is a section titled "Search/Browse a Newspaper:" with a "Select Newspaper" dropdown menu. Underneath that is a "Recent Additions" section listing several newspapers with their respective date ranges: "The Beaver County News 1957-1961", "The Midland News 1947-1956", "Iron County Record 1979-1982", "The Springville Herald 1954-1969", "Utah Daily Chronicle 1963-1972", and "Davis County Clipper 1968-1992". Below the "Recent Additions" section is an "In the News" section featuring a "familytree magazine" logo. On the right side of the page, there is a "Featured Title" section displaying a newspaper clipping titled "Manti Kills Fatted Calf" from the "Manti Messenger". To the right of the featured title is a "Help Us Improve." section with a request for feedback and a link to an "online survey". Below that is a "Help" section with links to "About the Program" and "How to Use this Website". At the bottom of the page, there is a small red box with the text "75 Best Websites for US State Genealogy Research in 2015" and a red-bordered box around the featured title with the text "Click on the image to go to this issue".

<https://digitalnewspapers.org/>

# History of UU Marriott Digital Library



## Marriott Library Digital Collections

Please select from the following options:

- [Browse](#) the contents of any collection on the Server.
- [Search](#) for specific items in the collections.
- [Access](#) items previously saved in "My Favorites".

Refer to the [Help](#) option above for assistance in using these features.

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[info@codywright.com](mailto:info@codywright.com)

No: Image: Title: Subject: Description:

No:	Image:	Title:	Subject:	Description:
1.		<a href="#">B. W. B. Smith a;</a> front cover Smith, Bathsheba W. Bigler, 1822-1910. --Diaries; Mormons --Diaries; Mormon pioneers --Emigration Diary describing Bathsheba Smith's journey to Utah in 1849 accompanying her husband, George Albert Smith. The diary also includes passages written in 1873 describing daily events in Utah.	Diaries; Mormons --Diaries; Mormon pioneers --Emigration Diary	Diary describing Bathsheba Smith's journey to Utah in 1849 accompanying her husband, George Albert Smith. The diary also includes passages written in 1873 describing daily events in Utah.
2.		<a href="#">B. W. B. Smith b;</a> inside front cover Smith, Bathsheba W. Bigler, 1822-1910. --Diaries; Mormons --Diaries; Mormon pioneers --Emigration Diary describing Bathsheba Smith's journey to Utah in 1849 accompanying her husband, George Albert Smith. The diary also includes passages written in 1873 describing daily events in Utah.	Diaries; Mormons --Diaries; Mormon pioneers --Emigration Diary	Diary describing Bathsheba Smith's journey to Utah in 1849 accompanying her husband, George Albert Smith. The diary also includes passages written in 1873 describing daily events in Utah.
3.		<a href="#">B. W. B. Smith page 001</a> Smith, Bathsheba W. Bigler, 1822-1910. --Diaries; Mormons --Diaries; Mormon pioneers --Emigration [1] June 22th 1849 we left Carboce with all of our family all in tolerable heat and spends anxious to go west to meet our friends and to be with the main body of the church, but vary so	Diaries; Mormons --Diaries; Mormon pioneers --Emigration	June 22th 1849 we left Carboce with all of our family all in tolerable heat and spends anxious to go west to meet our friends and to be with the main body of the church, but vary so
4.		<a href="#">B. W. B. Smith page 002</a> Smith, Bathsheba W. Bigler, 1822-1910. --Diaries; Mormons --Diaries; Mormon pioneers --Emigration [2] 26 Mr Smith gos to Kanesville to day again 27 and 28 is busily engaged bying Cattle bought ten or Eleven Yoke 29 Mr Smith bought a span of horses of stadard [The following was made in graphs.]	Diaries; Mormons --Diaries; Mormon pioneers --Emigration	26 Mr Smith gos to Kanesville to day again 27 and 28 is busily engaged bying Cattle bought ten or Eleven Yoke 29 Mr Smith bought a span of horses of stadard [The following was made in graphs.]





# History of UU Marriott Digital Library

**J. Willard Marriott Library**  
THE UNIVERSITY OF UTAH

a-z | library catalog | maps | hours

Home Browse All Ask a Question Log in Favorites Help

Search  within results Search Advanced Search

Please take a moment to fill out our survey





Narrow your search by:

- Type
- Creator
- Keywords
- Date
- Title

Browsing items 161 Univ of Utah - Multimedia Archives Photographs (26005 results)

Sort by: Title   1 2 ... 100 Next

Display: 100

Thumbnail	Title	Photo Number	Description	Keywords
	"Geodesic Dome"	p0021n01_09_147	Photo shows an enclosure in the shape of a geodesic dome near the Science Center at Lake Merritt, Oakland, California;	
	"Mister Walrus"	p0021n01_09_154	Photo shows a scene at "Children's Fairyland," a theme park in Oakland, California;	Fairyland;
	#10 Springs gully, 1979	P0385n1_08_12	Photo of a person standing on mound of snow, #10 Springs gully at Snowbird Ski Resort, 1979;	Utah; Ski Archives; Ski and skiing; Little Cottonwood Canyon; Ski resorts; Snowbird
	#R510-S. Cokes and dugout canoes go hand in hand at the museum in Everglades National Park.	P0746n09_01_17	Dugout canoe on display at museum, taken in Everglades National Park for the National Park Service in 1952.	Florida; National Parks; Everglades; Men; Children; Museums;

1 2

# History of UU Marriott Digital Library

**J. Willard Marriott Library**  
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Library catalog | maps | hours

Home Browse All Ask a Question

ExLibris Rosetta Management

User: Institution: J. Willard Marriott Library Language: English Help Logout

Home Products Submissions Data Management Preservation Quick Launch Site Map

Search

Narrow your search by:

- Type
- Creator
- Keywords
- Date
- Title

### Deposit

Add Deposit Activity

Quick State

Status	SIPs
Rejected	6
Total	6

Deposits Per Producer Group

Producer Group	Count
Internal	17

### Submissions

Search by SIP ID  Go

Quick State

SIPs In Process	
Status	SIPs
In process	0
Total	0

Technical Analyst	
Stage	SIPs
Validation	1
Deposit	8
Total	9

Manual Assessment	
Stage	SIPs
Approver	2
Total	2

### Preserved

Search Permanent  Go

Quick State

Total size (MB): 1675831  
Preserved files: 60612  
Number of IES: 4589

Files by Classifications

Classification	Count
Audio (A...)	31
Image C...	0
Other	0

# History of UU Marriott Digital Library

J. Willard Marriott Library  
THE UNIVERSITY OF UTAH

ExLibris Rosetta Management

Home Browse All Ask a Question

Search

Library catalog | maps | hours

User: Institution: J. Willard Marriott Library Language: English Help Logout

Home Products Submitters Browse Servers Access Packages Batches Collections Admin Queue (0) Sandbox Logout

Invert Select all Select without ARK Select unedited Select archival unsent Select solr unsent Select unapproved Select cancelled Select none 0 selected

ac\_bpc - Beckwith Photograph Color Set Collection Create ARKs Edit Metadata Approve Download Metadata Select Archival Destination Queue for Archival Select Viewer Destination Send to Solr Send to A

Narrow your search by:

- Type
- Creator
- Keywords
- Date
- Title

Quick Stats

Status Rejected Total

Deposits Per Producer Group

Package Name	Title	Collection	Last Editor	Approved By	ARK	Archive Status	Solr Status	Created By	Status
a0020arjanerhodestecordinator_0omv0g	A0020_Arjanet_NodeSiteCo...	uum_avac						u0255446	
a0053georgemetomastlibrary_0omv0y6	A0053_GeorgeThomasLibrary	uum_avac						u0255446	
a03410231971uchaskinpromo_0omv07	A0341_023_1971_UUJU_Sle...	uum_avac						u0255446	
a03410291984zmponeingccontinues_1omv07	A0341_029_1984_The_Pon...	uum_avac						u0255446	
a09380tapp01atlnadaymaster_0onlv7	A0938_OlTapp_01_AtlmAda...	uum_avac	u0255446					u0255446	
a09380tapp02fordahome1951_1onlv7	A0938_OlTapp_02_Fordstah...	uum_avac	u0255446					u0255446	
a09380tapp03fordahome1953_2onlv7	A0938_OlTapp_03_Fordstah...	uum_avac	u0255446					u0255446	
a09380tapp04glencanyon1956_3onlv7	A0938_OlTapp_04_GlenCan...	uum_avac	u0255446					u0255446	
a09380tapp05autumnscenes1958_4onlv7	A0938_OlTapp_05_AutumnS...	uum_avac	u0255446					u0255446	
a09380tapp06coloradoriver_5onlv7	A0938_OlTapp_06_Colorado...	uum_avac	u0255446					u0255446	
a09380tapp06coloradoriverscrap_5onlv7	A0938_OlTapp_06_Colorado...	uum_avac	u0255446					u0255446	
a09380tapp07foodscenes_7onlv7	A0938_OlTapp_07_FloodSc...	uum_avac	u0255446					u0255446	
a09380tapp08greenriver_8onlv7	A0938_OlTapp_08_GreenRi...	uum_avac	u0255446					u0255446	
a09380tapp09holidayhandicapsted_9onlv7	A0938_OlTapp_09_HolidayH...	uum_avac	u0255446					u0255446	
a09380tapp09holidayhandicapmaster_10onlv7	A0938_OlTapp_09_HolidayH...	uum_avac	u0255446					u0255446	
a09380tapp10wakinadcrookedpath_11onlv7	A0938_OlTapp_10_IWalkedA...	uum_avac	u0255446					u0255446	
a09380tapp11icecycles_12onlv7	A0938_OlTapp_11_IceCycles	uum_avac	u0255446					u0255446	
a09380tapp12littleredkinghood_13onlv7	A0938_OlTapp_12_LittleRed...	uum_avac	u0255446					u0255446	
a09380tapp12littleredkinghoodscrap_14onlv7	A0938_OlTapp_12_LittleRed...	uum_avac	u0255446					u0255446	
a09380tapp13paradellmm_15onlv7	A0938_OlTapp_13_Paradell...	uum_avac	u0255446					u0255446	

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Show Me How...

# History of UU Marriott Digital Library

The screenshot displays the ExLibris Rosetta Management interface for the J. Willard Marriott Library. The top navigation bar includes links for Home, Browse All, Ask a Question, and a search field. The main interface is divided into several sections:

- Left Sidebar:** Contains a search filter section titled "Narrow your search by:" with expandable categories for Type, Creator, Keywords, Date, and Title. Below this is a "Status Rejected Total" section and a "Deposits Per Producer Group" bar chart.
- Top Navigation:** Features tabs for Home, Products, Subscriptions, Browse Servers, Access Packages, Batches, Collections, Admin, Queue (0), Sandbox, and Signout.
- Search Results:** A list of search results is displayed, each with a thumbnail image, a title, a collection name, and a photo number. The results are numbered 1, 2, and 3.
- Filtering and Sorting:** A "You've searched:" section shows the current search criteria. Below it, there are options to "Limit your search" by Type, Format, and Collection Name. A pagination bar shows "1 - 25 of 67,986" results, with options to export as TSV, toggle gallery mode, and sort by Title A-Z.

**Search Results Table:**

Item Number	Thumbnail	Title	Collection Number And Name	Photo Number
1		"1800 Newari" poster of capture of polygamists John Taylor and George D. Cannon.	P0056 Church of Jesus Christ of Latter-day Saints History Photograph Collection	P0056n01_01_07
2		"...one of the deepest cuts in the world," in Cataract Canyon, about ten miles below the Green River	P1049 Harold Herbert Leich Photograph Collection	P1049n1_11_43
3		"1287 Crystal Avenue, the home that we built and moved into October 15, 1923, loved and lived together in for 33 years. Two years later I moved into the home Mel, Emma Lou, and I had built at 1965 St. Mary's Drive."	P1113 Grace Richards Warner Photograph Collection	P1113n192

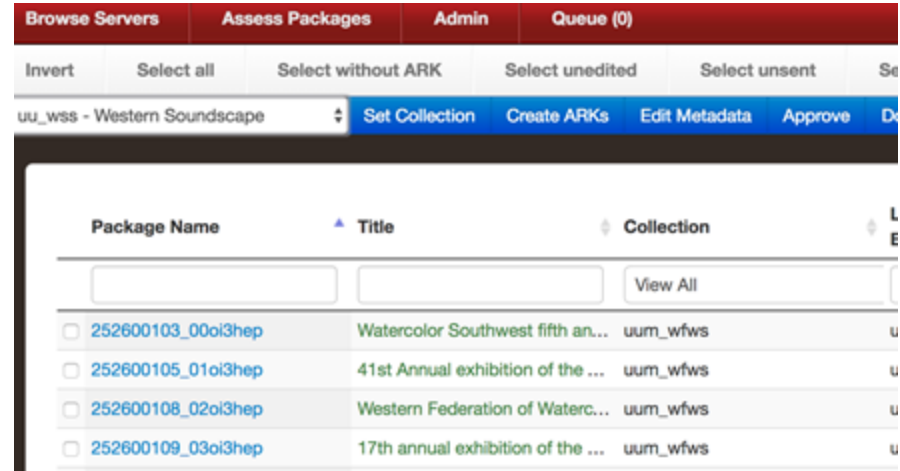
# SIMP Tool for metadata management

Initially designed to facilitate management between CONTENTdm and Rosetta, our preservation system

Platform agnostic and modular, provides ability to use other DAMs

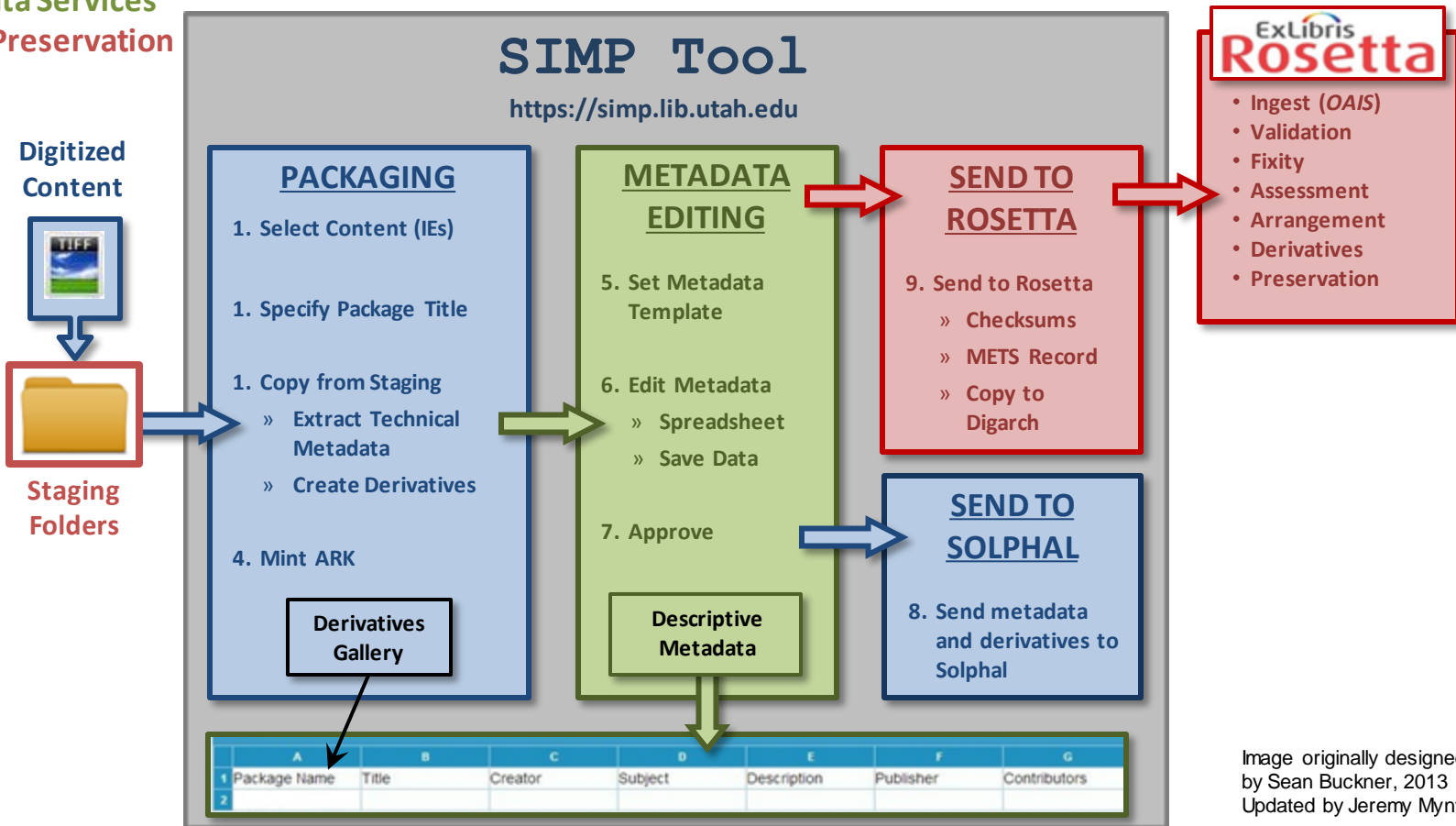
Options for automatically extracting some metadata (format, OCR text)

Updated in 2016 to support Solphal



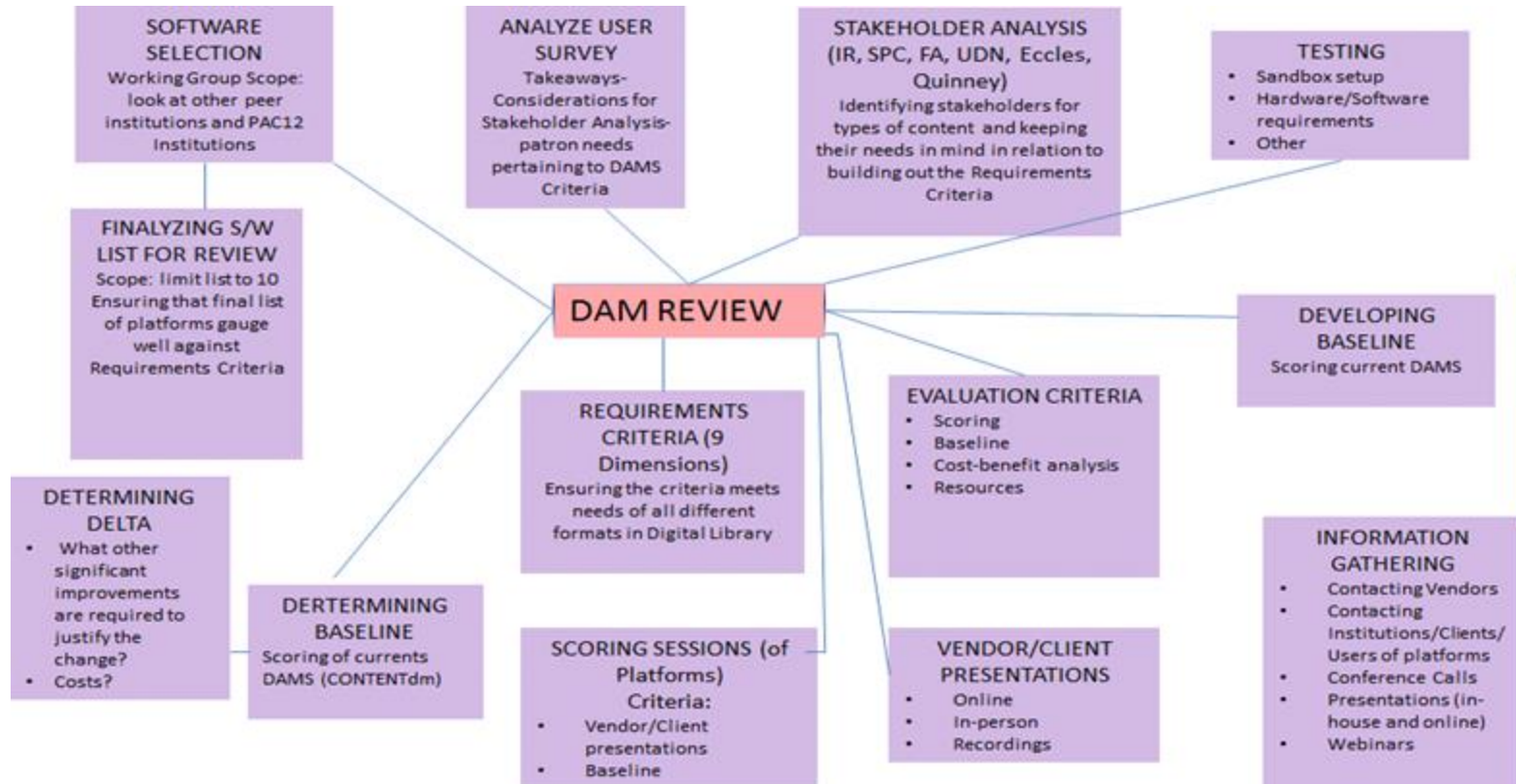
More details available in D-Lib article:

<http://www.dlib.org/dlib/july14/neatour/07neatour.html>



# DAMS Review in 2013

[http://mwdl.org/events/DAMS\\_options.php](http://mwdl.org/events/DAMS_options.php)



# DAMS Review



CHRONICLING AMERICA  
Historic American Newspapers





# DAMS Review - requirements criteria

## **Patron ease of use**

- End-user experience
- Search options and accuracy - discoverability of the content
- Handle all formats in similar fashion for all browsers
- ADA compliance

## **Types of content supported**

- Major content categories (e.g. IR, newspapers, EAD)
- File types and datasets
- Tiers of content (both object and item level)
- Media streaming

## **Issues related to ingest/conversion/exit**

- Workflows for adding new content
- Converting existing collection data
- Barrier(s) to exit

## **Collection administration**

- Interface design
- User permissions
- Website configuration
- Statistics/Reporting/Logs

## **Metadata administration**

- Metadata creation, editing, and maintenance options
- Faceting
- Copyright/Embargo
- Search Engine Optimization (SEO)

## **Integration with other library platforms**

- Discovery layer (e.g. Primo)
- Digital preservation system (e.g. Rosetta)
- Locally developed tools (e.g. SIMP Tool)

## **Technical infrastructure/administration**

- Scalability of collections/content
- Hardware/Server(s) specs
- API support
- System and server installation, configuration, and upgrades
- Internal resources required to run the system

## **Technical support**

- Training
- Help desk

## **Future and strategic directions**

# DAMS Review Outcome - Solphal



**NGINX**

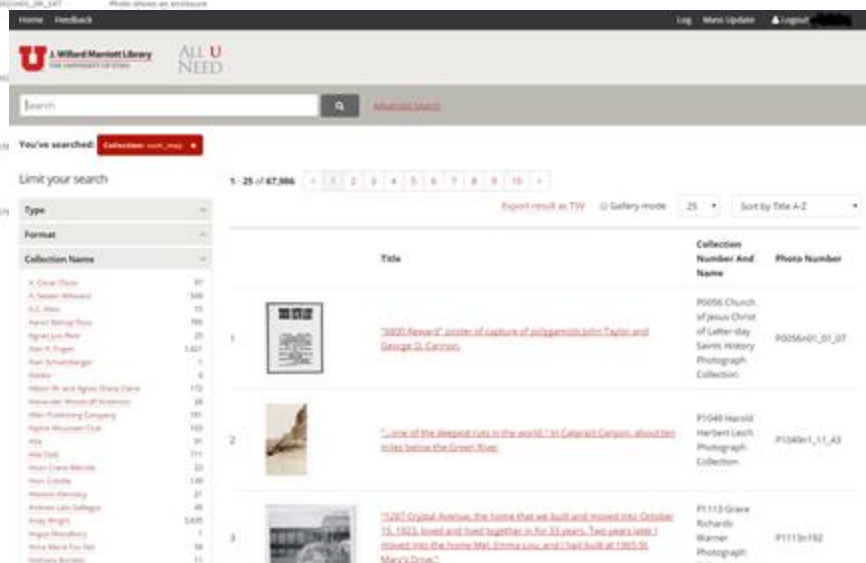
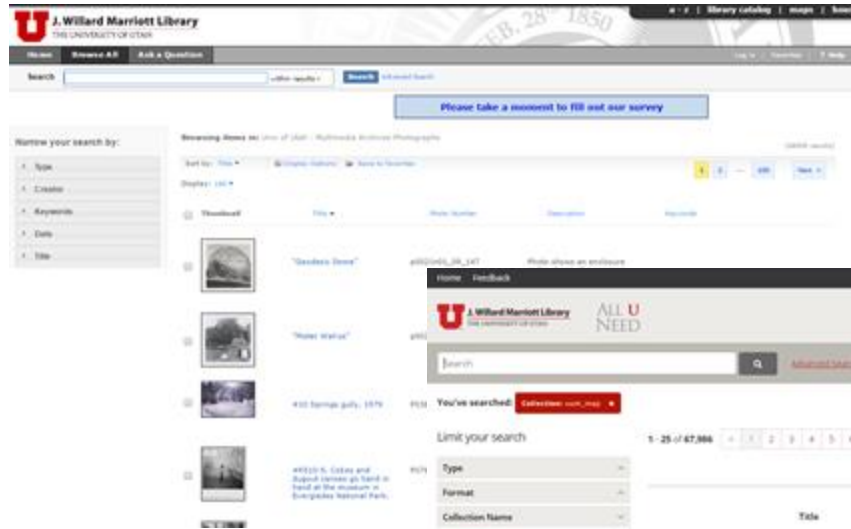
# Exposing Hidden Digital Collections Overview

1. Pre-migration work

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3. Post-migration work

4. Lessons learned



# CONTENTdm set-up vs Solphal set-up

## CONTENTdm

- 2 servers (digital library and UDN)
- CDM (2x12 Core 3.0 Ghz, 64 Gb mem) UDN (2x8 Core 2.4 Ghz, 96 Gb mem)
- Scalability issues
- Limited customizations

## Solphal

- 3 VMs (indexing services, Utah Digital Newspapers, and Digital Collections)
- VMs avg. 2 cores, 3 Gb mem
- Extremely small footprint (hardware and power savings)
- Highly scalable and sustainable
- Fully customizable
- Easy replication and cloud-centric

# Benefits of Solphal

- In-house expertise and support
- Student, patron, and partner convenience
  - faster response times
  - advanced search functions
  - front-end metadata editing
  - customized interface
- Substantial power, hardware, and licensing cost savings
- Improved workflows and QA/QC for all teams
- Staff time savings = ~1 less FTE supporting servers
- Demonstrating and sharing open source solutions with other institutions

# Indexing Improvements

## Utah Digital Newspapers

- 55 GB of metadata
- 21,648,462 records
- CONTENTdm
  - Full re-index ~ 1440 hrs (site is online)
  - Full re-index ~ 240 hrs (site is offline)
- Apache Solr indexing
  - Initial index ~ 2.75 hrs
  - Incremental index ~ instant

## Digital Collections

- 6 GB of metadata
- 2,248,922 records
- CONTENTdm
  - Full re-index ~ 144 hrs (site is online)
  - Full re-index ~ 72 hrs (site is offline)
- Apache Solr indexing
  - Initial index ~ 25min
  - Incremental index ~ instant

# User Interface Improvements

## Utah Digital Newspapers

- CONTENTdm
  - Page load times (avg) 10s
  - PDF display issues
- Solphal
  - Page load times (avg) under 500ms

Name	Status	Type	I...	Size	Time	Waterfall	40.00 ms
analytics.js	307		...	0 B	57 ms		
search?page=3	200	docu...	...	9.0 KB	48 ms		
cJZKeOuBrn4kERx...	200	font	...	20.8 KB	35 ms		
MTP_ySUJH_bn48...	200	font	...	21.5 KB	31 ms		
k3k702ZOKILJc3W...	200	font	...	21.6 KB	41 ms		
fontawesome-webfo...	200	font	...	65.4 KB	20 ms		
Od55f26291d87846...	200	jpeg	...	3.9 KB	8 ms		
0bc4e1d772b4e77d...	200	...	...	...	...		

42 requests | 303 KB transferred | **Finish: 405 ms** | DOMContentLoaded: 264 ms | Load: 382 ms

## Digital Collections

- CONTENTdm
  - Page load times (avg) 5s
  - PDF display issues
- Solphal
  - Custom HTML5 image viewer
  - HTML response times (avg) under 50ms
  - Complete page load times (avg) under 500ms

# Metadata Standardization

Establish core fields needed for faceting and queries, and change varying fields

Title	Mr. J. Holman Waters: Recollections of Samuel Newhouse, Salt Lake City, Utah: an interview by Hynda Rudd, July 16, 1977
Creator	Waters, J. Holman, 1912-1995
Date	1977-07-16
Spatial Coverage	Salt Lake City, Salt Lake County, Utah, United States
Subject	Newhouse, Samuel, 1853-1930; Businessmen--Utah--Salt Lake City--Interviews; Jews--Utah--Salt Lake City
Type	Text
Rights	Digital Image © 2016 University of Utah. All Rights Reserved. Contact the J. Willard Marriott Library Manuscripts Division for use and restrictions. 801-585-3082





# Metadata fields gone wild!

Image File Name	Links to Media 3	Monograph	Other subject	Presenting Symptom	Rights management	Source Physical Condition	Subject (TGM I, II)
Image Size	Links to media 4	Mother of Deceased	Other Subject	Preview Link	Rights Management	Source physical description	Subtitle
Image Source	Links to Media 4	Museum Number	Owning Institution	Print Number/Inventory	Rights Management.Digital	Source Physical Description	Summary
Imaging	Links to Media 5	Name	Page	Number	Room Number	Source Physical Dimensions	Supplementary Materials
Imaging Technician	Link to additional information	Natureserve unique identifier	Pages	Program	Running Time	Source Physical Dimension	Table of contents
Identifier	Link to library store	Neuroimaging	Paper Discount	Project Sponsor	Scanned by	Source Physical Dimensions	Table of Contents
Inscription/Marks	Link to media	Newsletter Date	Paper ISBN	Project Title	Scanning Contractor	Source Resolution	Taskype
Interactive file	Link to Media	Nomenclature	Paper Price	Promo	Scanning device	Source rights notice	Technicians' notes
Interviewer	Location	Note	Park	Provenance	Scanning Device	Source size	Technique
Intrasite	Location - City/State	NOTE	Partner/Client Collection	Publication Date	Scanning institution	Spatial coverage	Temporal coverage
Inventory Control Number	Location - Country	Notes	Pathology	Publication Title	Scanning Institution	Spatial Coverage	Temporal Coverage
Inventory Notes	Longitude	Notes/Remarks	Patron	Publication Type	Scanning technician	Spatial Coverage 2	Textual date
Irrigation	Lower Links	Number of pages	Peabody ID	Published location	Scanning Technician	Spatial Coverage 3	Textual Date
ISBN	Low-resolution	Number of Players	People	Publisher	Scanning vendor	Spatial Coverage 4	Title
Is part of	Low Resolution	Object file name	Permissions temp	Publisher-Digital	Scanning / College	Spatial Coverage 5	TOC
Is Part Of	Map Color Key	Object Location	Person	Publisher-Original	School / College	Spatial Coverage 6	Topics included
Is referenced by	Map Sheet Number	Object Name	Personal names	Quantity	School or College	Spatial Coverage 7	Transcript
Item.Day	Master file bit depth	Occupation	Personal Names	Query generator	Scientific Name	Species Range (Southwestern States)	Transcripts
Item.Month	Master file checksum value	OCLC number	Photo #	Rating	Season	Spectrogram Notes	Treatment
Item.Page	Master file compression	OCLC number v.5	Photographed Location	Recording Description	Seasons	Sport	Tribe
Item.Transcript	Master file creation	Ocular Movements	Photographer	RecordType	Series	Spouse of Deceased	Trim Size
Item.Year	Master file creation software	OK to delete	Photographer / Studio	References	Series Editor	Start Month	Type
Journal Title	Master file extent	OK to move to public	Photograph Number	Reference URL	Short Description	State	Type of Object
Keyword	Master file format	Olympic Event	Photo number	Related Image	Short Essay	State Project Number	UAIDA Query
Keywords	Master file medium	Operating system	Photo Number	Related material	Siblings of Deceased	Statistics	uMarket Link
Kingdom	Master file operating system	Opponent	Photo Rights Management	Related Material	Signature Location	Streaming media	uNID
L2TRc Identifier	Master file pixel dimension	Order	Phylum	Related pieces	Site	Street Names	Universal Transverse Mercator
Language	Master file quality	Order Original	Place	Related Project Name	Site ID	Style Period	Zone
Latitude	Master file resolution	Origin	Place name	Related resource	Site Name	Style/Period	University of Utah creator
Level	Master file size	Original Format	Place Name	Related Resource	Size	Subarea	University of Utah Creator
Library Number	Material	Original Source	Place names	Related Video	Smithsonian Trinomial	Subject	Upper Links
License	Materials and Techniques	OtherContrib	Place Names	Relation	Source	Subject 1	Use restrictions
Light Source	Measurements	OtherContrib2	Place of Origin/Discovery	Relation-Has Part	Source Characteristics	Subject 2	User Role
Links	Media Instructions	OtherContrib3	Place of publication	Relation-Has Version	Source Collection	Subject 3	UTM_E
Links to media	Media Rights Management	OtherContrib4	Platform	Relation - Is Part Of	Source Container	Subject 4	UTM_N
Links to Media	Medium	OtherContrib5	Play Audio	Relation-Is Part Of	Source donation date	Subject AAT	Video Clip Instructions
Links To Media	Metadata Calatoger	Other Creator	Play Media	Relation-Is-Part-Of	Source Donation Date	Subject (AAT)	Video Instructions
Links to media 1	Metadata cataloger	Other Media Discount	Play Video	Relation-Is Version Of	Source donors	Subject Category	View collection at
Links to Media 1	Metadata Cataloger	Other Media ISBN	Potential Natural Vegetation Code	Report Name	Source donors	Subject.Keyword	Volume
Links to media 2	Metadatata cataloger	Other Media Price	Praise and Reviews	Repository	Source file editing software	Subject Keywords	Volume Number
Links to Media 2	Metadata Technician	Other Media Type	Presentation Format	Research Institute	Source file extent	Subject/Keywords	website
Links to media 3	Monitored By	Other People		Resolution	Source file operating system	Subject LCSH	Website
				Resolution Of Original Scan	Source file quality	Subject (LCSH)	Width, Framed
				Resolution/Size of Original clip/file	Source file recording equipment	Subject.LCSH	Width Unframed
				Resource Identifier	Source file size	subject.local	Work Dates
				Resource Type	Source format	Subject.local	Work ID
				Reviewer	Source Format	Subject Local	Work Type
				Rights	Source Information	Subject.Local	Year
				Rights-Access Rights	Source Material	Subject.MESH	
				Rights Holder	Source.Physical	Subject (MESH)	
				Rights-License	Source physical Condition		

# Old Field Labels vs New Field Labels

<b>Old Field Name</b>	<b>Standardized Field Name</b>
Source.Physical	Source Physical
Source physical Condition	Source Physical Condition
Source Physical Condition	Source Physical Condition
Source physical description	Source Physical Description
Source Physical Description	Source Physical Description
Source Physical Dimenions	Source Physical Dimensions
Source Physical Dimension	Source Physical Dimensions
Source Physical Dimensions	Source Physical Dimensions

# Variations in Title Field Name

<b>Collection Alias</b>	<b>Local Field Name</b>	<b>CONTENTdm nickname</b>
col/ehsl-wht	Title	title
col/epubs	Article Title	articl
col/fhwa	Document Title	title
col/fitz	Title	title
col/flwright-jp2	Alternative Title	latin
col/flwright-jp2	Title	title
col/GBA_Photos	Caption	title
col/GBM	Caption	title
col/gis	Title	title

# Noncompliant Type Values

<b>Noncompliant Type Values</b>	<b>Standardized Type Values</b>
text	Text
Image	Image
image	Image
Text	Text
text;	Text
Image;	Image
Still image	Image/StillImage
Image;StillImage;	Image/StillImage
Color transparency	Image
Audio;	Sound
Black and White Photograph	Image/StillImage
Image/stillimage	Image/StillImage

# Controlled Vocabularies

Type (DCMI Type vocab)	Format (Internet Media Type)	Language (ISO 639-2)
Collection	application/msword	ara
Dataset	application/pdf	chi
Event	application/vnd.google-earth.kmz	eng
Image	application/vnd.ms-powerpoint	fre
Image/MovingImage	application/xml	ger
Image/StillImage	application/x-shockwave-flash	heb
InteractiveResource	application/zip	ita
PhysicalObject	audio/mpeg	kor
Service	image/jpeg	lat
Software	image/png	nav
Sound	text/html	rus
Text	video/mp4	spa

# Delete Orphaned Collections

Search



[Advanced Search](#)

You've searched: **Collection: uu\_djmt**

Limit your search

1 - 100 of 164



Gallery mode

100

Sort by Date Ascending

Type ^

Collection v

**uu\_djmt** 164



# Sample Solr Ingest File



```
<add>
<doc>
<field name="title_t">U Archives D. Art 1890-1939 fd 1
#2</field>
<field name="form_t">photograph</field>
<field name="source_t">University of Utah Archives</field>
<field name="work_id_t">101</field>
<field name="date_digital_t">4/20/2010</field>
<field name="rights_t">Digital Image Copyright 2010,
University of Utah. All Rights Reserved.</field>
<field name="type_t">Image</field>
<field name="imaging_technician_t">Amelia Walchli</field>
<field name="metadata_cataloger_t">Amelia Walchli</field>
<field name="file_name_t">101.tif</field>
<field name="ark_t">ark:/87278/s6sb7cp8</field>
<field name="archival_file_t">Volumel/U Archives D. Art
1890-1939 fd 1 #2.tif</field>
<field name="created_tdt">2010-04-19T00:00:00Z</field>
<field name="modified_tdt">2010-04-26T00:00:00Z</field>
<field name="oldid_t">Art2 0</field>
<field name="id">15729</field>
<field name="parent_i">0</field>
<field
name="thumb_s">/68/84/6884a28421c31d96d4d9ec466f47fecbb99af
700.jpg</field>
<field
name="file_s">/5c/bc/5cbc0793020d24aba7eb6e4443d0c6574970ac
57.jpg</field>
<field name="format_t">image/jpeg</field>
<field name="setname_s">uu_aah_artpr</field>
<field name="restricted_i">0</field>
</doc>
<doc>
<field name="title_t">U Archives D. Art 1890-1939 fd 1
#4</field>
<field name="form_t">photograph</field>
<field name="source_t">University of Utah Archives</field>
<field name="work_id_t">102</field>
```



# UDN migration vs. Digital Collections migration

## Utah Digital Newspapers

- Newspapers metadata more standardized, but not perfect
- Inconsistencies with titles, dates, paper names, and type fields
- Clean-up for nonstandard characters, newspaper names issues
- Previous architecture had one newspaper title split into multiple collections (scalability issues)
- Consistent field names and metadata meant that migration happened sooner and faster
- No external partners to contact

## Digital Collections

- More communication needed with both internal and external partners during migration
- Problem or missing metadata values in older collections not fixed (yet)
- Field label standardization
- Standardization of type and format
- Lots of clean-up work still to do in the future



# Frontend metadata editor

Archival Resolution	Archival TIFF: 3000 x 4600
Low Resolution	JPEG: 800 x 600
Bit Depth	8-bit
Scanning Device	Creo-Scitex Eversmart Jazz+ flatbed scanner
Scanning Technician	Kelly Taylor
Metadata Cataloger	Lois Stephenson; Ken Rockwell
ARK	ark:/87278/s6p58hrj
ID	126902
setname	dc_bpc
CONTENTdm URL	<a href="http://cdmbuntu.lib.utah.edu/cdm/ref/collection/DC_Beckwith/id/3408">http://cdmbuntu.lib.utah.edu/cdm/ref/collection/DC_Beckwith/id/3408</a>
Reference URL	<a href="https://collections.lib.utah.edu/details?id=126902">https://collections.lib.utah.edu/details?id=126902</a>

Drop file here

# Mass Update Tool

spatial\_coverage\_t    Sort by count    Unique values    1000    uum\_johp    SUBMIT

#	Count	Value	
1	1367		<a href="#">Edit</a>
2	13	<a href="#">Salt Lake City, Salt Lake County, Utah, United States</a>	<a href="#">Edit</a>
3	4	<a href="#">Salt Lake City, Salt Lake County, Utah, United States; Russia</a>	<a href="#">Edit</a>
4	1	<a href="#">Clarion, Sanpete County, Utah, United States; Nebraska, United States</a>	<a href="#">Edit</a>
5	1	<a href="#">Lithuania; Tooele, Tooele County, Utah, United States</a>	<a href="#">Edit</a>
6	1	<a href="#">Philadelphia, Pennsylvania, United States; Salt Lake City, Salt Lake County, Utah, United States</a>	<a href="#">Edit</a>
7	1	<a href="#">Russia; Dubăsari (Moldova)</a>	<a href="#">Edit</a>
8	1	<a href="#">Russia; Poland; New York City, New York, United States; Utah, United States</a>	<a href="#">Edit</a>
9	1	<a href="#">Salt Lake City, Salt Lake County, Utah, United States; Clarion, Sanpete County, Utah, United States; Russia; Philadelphia, Pennsylvania, United States</a>	<a href="#">Edit</a>

# Future metadata corrections - Metadata auditing

Restour & Myntll  
of the University of Utah Marriott  
Library present.....

## METADATA PROBLEMS

- SIZE OF COLLECTIONS - CLOSE TO 300 COLLECTIONS, OVER 2 MILLION ITEMS.
- AGE OF COLLECTIONS - STARTED DIGITIZING IN 2000
- INCONSISTENT TRAINING
- VARIETY OF COLLECTIONS MEANS DIFFERENT CONVENTIONS USED FOR COLLECTIONS FROM:
  - INTERNAL
  - EXTERNAL
  - CAMPUS PARTNERS

## OR, HOW TO CLEAN UP DATA THAT IS UP TO NO GOOD

### AREAS OF ASSESSMENT VALUES

- IS THE DATA CONSISTENT WITH AUTHORITY SOURCES?
- ARE WE CONFORMANT WITH THE MWDI DUBLIN CORE APPLICATION PROFILE?
- DOES THE DATA REFLECT INTERNAL BEST PRACTICES?

### DUBLIN CORE MAPPING - IS IT CONSISTENT?

### MISSING DATA - DOES EACH RECORD HAVE REQUIRED INFORMATION [EG DATES AND SUBJECTS]?

## METADATA MANAGEMENT TOOLS

- CHECKING VALUES - EXPORT COLLECTION DATA AS CSV, IMPORT INTO EXCEL, FILTER TO FIND MISSING VALUES
- DUBLIN CORE MAPPING - DPLA AGGREGATION TOOLS FROM NCDHC, MODIFIED BY MWDI
- RECONCILIATION - VENDOR BASED OR WITHIN OPENRETIKE
- SOLR INDEX - CONTENTDM COLLECTIONS EXPORTED TO SOLR, EASY TO BULK DOWNLOAD AND QUERY

## CURRENT PROCESS

- STUDENT AUDITING, UTILIZING TOOLS
- MULTIPART SPREADSHEET TO CAPTURE ISSUES ACROSS COLLECTIONS
- LIBRARIAN REVIEW
- SELECT COLLECTIONS FOR CLEAN UP WORK
- PRIORITIZE WORK ON COLLECTIONS WITH MISSING VALUES AND MWDI DUBLIN CORE APPLICATION PROFILE ISSUES

## CLEAN UP TECHNIQUES

- MASS EDIT ITEMS WHEN POSSIBLE
- INDIVIDUALLY EDIT ITEMS
- SCRIPT AGAINST CONTENTDM DESC.ALL FILE

## FUTURE DIRECTIONS

- UPCOMING SYSTEMS MIGRATION MAKES CLEAN UP MORE URGENT
- WORK ON WESTERN NAME AUTHORITY FILE PROVIDES MORE OPPORTUNITIES FOR AUTHORITY CONTROL

# Future metadata corrections - Rights statements

40867	<a href="#"><u>This material may be protected by copyright. Permission required for use in any form. For further information please contact the Multimedia Archives, Special Collections, J. Willard Marriott Library, University of Utah.</u></a>
20207	<a href="http://creativecommons.org/licenses/by-nc-sa/1.0/"><u>http://creativecommons.org/licenses/by-nc-sa/1.0/</u></a>
5134	<a href="#"><u>Digital Image Copyright 2008, University of Utah, All Rights Reserved.</u></a>
4325	<a href="#"><u>Digital Image Copyright 2010, University of Utah, All Rights Reserved.</u></a>
3597	<a href="#"><u>Copyright owner unknown</u></a>
3583	<a href="#"><u>Digital image copyright 2005, University of Utah. All rights reserved.</u></a>
3488	<a href="#"><u>Digital image, copyright 2003 Uintah County Library</u></a>
3405	<a href="#"><u>This material is protected by copyright. Express permission is required for use in any form. For further information please contact the Multimedia Archivist, Special Collections, J. Willard Marriott Library, University of Utah.</u></a>
3033	<a href="#"><u>This material may be protected by copyright. Permission required for use in any form. Please contact the Multimedia Archives, Special Collections, J. Willard Marriott Library, University of Utah.</u></a>
2975	<a href="#"><u>This material is protected by copyright. Permission required for use in any form. For further information please contact the Multimedia Archives, Special Collections, J. Willard Marriott Library, University of Utah.</u></a>
2616	<a href="#"><u>Digital Image Copyright 2007, University of Utah, All Rights Reserved.</u></a>

# Future metadata corrections

## MWDL Application Profile


title	date	description	subject	type	format	rights
National Ski Association officers and directors	January 13 - 15, 1961	Photo shows National Ski Association	Melville, Alton Crane, 1	Image	image/jpeg	This material may be prot
Group Picture in the Orderville Ward				Image	image/jpeg	This material may be prot
Saltair Beach Pavilion and bathers, Saltair Resort.		1893-1925 (destroyed by fire)		Image	image/jpeg	This material may be prot
Interior of the Dancing Pavilion, Saltair Resort.		1893-1925 (destroyed by fire)		Image	image/jpeg	This material may be prot
Saltair Beach Pavilion, Saltair Resort.		1893-1925 (destroyed by fire)		Image	image/jpeg	This material may be prot
Group of ski tourers high in the Wasatch mountains		A group photo of ski tourers in the	Wasatch Mountains (Ut	Image	image/jpeg	This material may be prot
Painting of soldiers.					image/jpeg	This material may be prot
George Thompson in England.				Image	image/jpeg	This material may be prot
George Thompson with second wife Katherine.				Image	image/jpeg	This material may be prot
William Jennings Bryan at the radio station.					image/jpeg	
Nels Just with Emma Bennett Just				Image	image/jpeg	This material may be prot
Emma Bennett Just's son Fred Bennett.				Image	image/jpeg	This material may be prot
Charley and James Just				Image	image/jpeg	This material may be prot
Nels Just				Image	image/jpeg	This material may be prot
Thomas Moran				Image	image/jpeg	This material may be prot
Just family by their ranch house				Image	image/jpeg	This material may be prot
Francis and Will Just				Image	image/jpeg	This material may be prot
Emma Bennett Just at age 16.				Image	image/jpeg	This material may be prot


# Future metadata corrections - Subject faceting


Topic	
<u>American newspapers</u>	1
<u>Antisemitism</u>	12
<u>Auschwitz (Concentration camp)</u>	1
<u>Bamberger Railroad Company</u>	2
<u>Bar mitzvah</u>	1
<u>Cantors (Judaism)</u>	1
<u>Conservative Judaism</u>	1
<u>Eastern Front (World War (1914-1918))</u>	1
<u>Emigration and immigration</u>	3
<u>Ethnic groups</u>	1
<u>Evacuation and relocation of Japanese Americans (United States : 1942-1945)</u>	1









# Future corrections - Duplicate files

 **J. Willard Marriott Library**  
THE UNIVERSITY OF UTAH

 **ALL U NEED** Regional History Center

(\*).AND sort\_file\_s:"/ab/2e/ab2e015d1dcd4f94abec06e96c46ac092a"  [Advanced Search](#)

Limit your search 1 - 25 of 4 [Export result as TSV](#)  Gallery mode 25 

	Title	Setname	Type
1	 <a href="#">Gilsonite Mine Fire at "Puck Mine"</a>	ucl_rhc	Image
2	 <a href="#">Gilsonite Mine Fire at "Puck Mine"</a>	ucl_rhc	Image
3	 <a href="#">Gilsonite Mine Fire at "Puck Mine"</a>	ucl_rhc	Image
4	 <a href="#">Gilsonite Mine Fire at "Puck Mine"</a>	ucl_rhc	Image

# Future corrections - Duplicate files



Western Soundscape

(\* ) AND sort\_file\_s:"/dd/ec/ddec7494cb3c323e5103af7c1b0351a6d18



[Advanced Search](#)

Limit your search

1 - 100 of 37

[Export result as TSV](#)

Gallery mode

100 ▾

Sort by Relevance ▾

Type ^

Format ^

Collection ▾

unl\_wss

37



# Roadmap for future development

## Solphal (Front end) development

- International Image Interoperability Framework (IIIF)
- RDFa and schema.org

## SIMP Tool enhancements

- Workflow automation
- Large updates monthly, small updates as needed

## Many new projects in the pipeline

- Two IMLS Grants
  - Western Name Authority File (LG-72-16-0002-16)
  - Newspapers in Hydra (LG-70-17-0043-17)
- Born digital content
- Partner projects

[Advanced Search](#)

## J. Willard Marriott Digital Library

The J. Willard Marriott Digital Library at the University of Utah hosts more than 250 digital collections, containing over 1 million digital photographs, maps, books, videos, audio recordings, and other items.

### Delta City Library

Beckwith Photograph Collection

### Department of Heritage and Arts

Afton Watkins Gardner Collection  
Al W. Morton Collection, 1930s-1950s  
Artifact Collection  
C. R. Savage Company Portrait Collection  
Carbon County Cookbook  
Cartoons and Caricatures of Men in Utah  
Charles Raymond Varley Slides, 1868-1986  
City Engineers  
Civilian Conservation Corps  
Classified Photographs  
Clifford Bray Film Negatives  
Denver & Rio Grande Payroll Ledgers  
Eliza Reynolds Shipp Papers  
Encoded Archival Description (EAD) Finding Aids  
General Refractories Company Collection  
Governor's Olympic Collection  
Harvard Peabody Site Reports  
Historic and Prehistoric Publications  
Juanita Brooks Photograph Collection, 1928-1981  
Kent Day Family Collection  
KUJED Topaz Residents Collection

### Institutional Repository

Board Of Regents  
Chicano Scholarship Archive  
College of Humanities LZTRc  
Computer Science Archive  
Continuum  
Data Registry and Repository  
Electronic University Archive  
GIS Library  
Honors Theses Open Access  
Open Access Classroom Resources  
Sustainability U  
Theses & Dissertations  
U News and Views  
UScholar Works  
Utah Geriatric Education Center Library

### Murray City

Murray Museum

### Park City

Park City Historical Society  
Park City Historical Society & Museum

### University of Utah Partnerships

Alta Avalanche  
American Flame Research Committee  
American Westward Migration  
Art and Art History Department PR Photographs  
Athletics  
Brain Institute  
Business Leaders Interviews  
CAP History  
Career Services Library  
College of Architecture + Planning  
College of Law Publications  
Cycling Utah  
Forty-fourth Bomb Group Veterans Association - 8 Ball Tails Magazine  
Frederick William Reynolds Lectures  
Games4Health  
Glen Canyon  
Health Review  
Hidden Water - Salt Lake County Water Drainages  
Hinckley Journal of Politics  
Intermountain Acoustic Music  
Intermountain Ski Instructors Association  
Land Use - Transportation Scenario Planning  
Leadership Resource Center Library  
Lessons - The Journal Of The Center For Teaching And Learning Excellence  
Life Story Library collection  
McKay Music Library - Abravanel Studio Collection

library

[Advanced Search](#)You've searched: **Collection: uum\_map** x

Limit your search

Type ^

Format ^

Collection Name v

<a href="#">A. Oscar Olson</a>	97
<a href="#">A. Selden Millward</a>	509
<a href="#">A.C. Allen</a>	15
<a href="#">Aaron Belnap Ross</a>	795
<a href="#">Agnes Just Reid</a>	25
<a href="#">Alan K. Engen</a>	1,421
<a href="#">Alan Schoenberger</a>	1
<a href="#">Alaska</a>	4
<a href="#">Albion W. and Agnes Sharp Caine</a>	172
<a href="#">Alexander Woodruff Anderson</a>	28
<a href="#">Allen Publishing Company</a>	161
<a href="#">Alpine Mountain Club</a>	103
<a href="#">Alta</a>	91
<a href="#">Alta Club</a>	711
<a href="#">Alton Crane Melville</a>	23
<a href="#">Alvin Colville</a>	139
<a href="#">Ammon Hennacy</a>	21
<a href="#">Andrew Lalo Gallegos</a>	49
<a href="#">Andy Wright</a>	5,635
<a href="#">Angus Woodbury</a>	1
<a href="#">Anne Marie Fox Felt</a>	58
<a href="#">Anthony Burdett</a>	11

1 - 25 of 67,812
















 Gallery mode

25 v

Sort by Relevance v

	Title	Collection Number And Name	Photo Number
1	 <a href="#">J. Willard Marriott Library, University of Utah [6]</a>	P0305 University of Utah Archives Photograph Collection - B. Marriott Library	B.MarriottLibrary-DedicationFd01n09
2	 <a href="#">J. Willard Marriott Library, University of Utah [2]</a>	P0305 University of Utah Archives Photograph Collection - B. Marriott Library	B.MarriottLibrary-ConstructionFd01n07
3	 <a href="#">J. Willard Marriott Library, University of Utah [7]</a>	P0305 University of Utah Archives Photograph Collection - B. Marriott Library	B.MarriottLibrary-InteriorFd03n09
4	 <a href="#">J. Willard Marriott Library, University of Utah [1]</a>	P0305 University of Utah Archives Photograph Collection - B. Marriott Library	B.MarriottLibrary-

library


[Advanced Search](#)

 You've searched: **Collection: uum\_map** ✕

Limit your search

1 - 200 of 67,812

&lt; 1 2 3 4 5 6 7 8 9 10 &gt;

 Gallery mode

200 ▾

Sort by Relevance ▾

Type ^

Format ^

Collection Name v

<a href="#">A. Oscar Olson</a>	97
<a href="#">A. Selden Millward</a>	509
<a href="#">A.C. Allen</a>	15
<a href="#">Aaron Belnap Ross</a>	795
<a href="#">Agnes Just Reid</a>	25
<a href="#">Alan K. Engen</a>	1,421
<a href="#">Alan Schoenberger</a>	1
<a href="#">Alaska</a>	4
<a href="#">Albion W. and Agnes Sharp Caine</a>	172
<a href="#">Alexander Woodruff Anderson</a>	28
<a href="#">Allen Publishing Company</a>	161
<a href="#">Alpine Mountain Club</a>	103
<a href="#">Alta</a>	91
<a href="#">Alta Club</a>	711
<a href="#">Alton Crane Melville</a>	23
<a href="#">Alvin Colville</a>	139
<a href="#">Amnon Hennacy</a>	21
<a href="#">Andrew Lalo Gallegos</a>	49
<a href="#">Andy Wright</a>	5,635
<a href="#">Angus Woodbury</a>	1
<a href="#">Anne Marie Fox Felt</a>	58



[Advanced Search](#)

## Advanced Search

All of the words ▾ All Fields ▾ Keywords AND ▾

All of the words ▾ All Fields ▾ Keywords

AND ▾

All of the words ▾ All Fields ▾ Keywords AND ▾

All of the words ▾ All Fields ▾ Keywords

### Collections

- All Collections
- Delta City Library
  - Beckwith Photograph Collection (dc\_bpc)
- Department of Heritage and Arts
  - Afton Watkins Gardner Collection (dha\_awg)
  - Al W. Morton Collection, 1930s-1950s (dha\_alwmc)
  - Artifact Collection (dha\_ac)
  - C. R. Savage Company Portrait Collection (dha\_crscpc)
  - Carbon County Cookbook (dha\_cccook)
  - Cartoons and Caricatures of Men in Utah (dha\_ccmu)
  - Charles Raymond Varley Slides, 1868-1986 (dha\_crvs)
  - City Engineers (dha\_ce)
  - Civilian Conservation Corps (dha\_ccc)

### Final Query

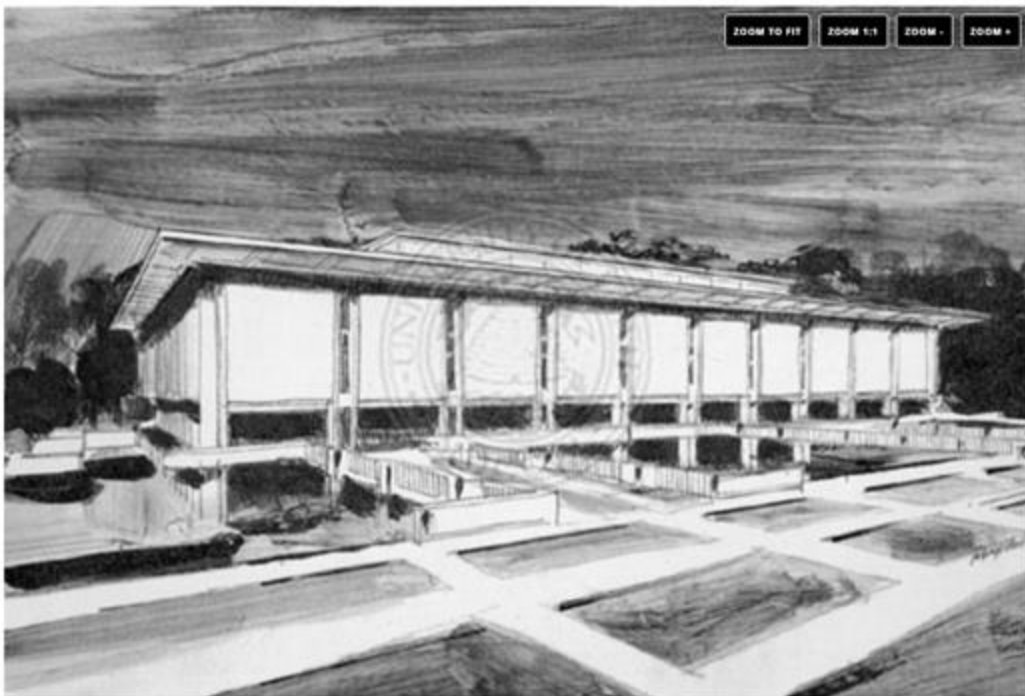
title\_t:"marriott library"



[Advanced Search](#)

## J. Willard Marriott Library, University of Utah [01]

[Download File \(69.14K\)](#)



Title J. Willard Marriott Library, University of Utah [01]



Title	J. Willard Marriott Library, University of Utah [01]
Photo Number	B.MarriottLibrary-ConstructionFd01n16
Description	Photo shows a drawing of an exterior view of the University of Utah's J. Willard Marriott Library
Keywords	Utah; University of Utah; Buildings, educational; Libraries
Subject	University of Utah--Buildings--Photographs; University of Utah--Libraries--Photographs
Additional Information	Constructed in 1967 and opened in 1968, the J. Willard Marriott Library is the main library of the University of Utah. Major renovations in the 1990s and 2005-2009 has since changed the appearance of the exterior
Spatial Coverage	Salt Lake City (Utah)
Collection Number and Name	P0305 University of Utah Archives Photograph Collection - B. Marriott Library
Collection Name	U of U Marriott Library
Textual Date	1960s
Owning Institution	Multimedia Archives, Special Collections, J. Willard Marriott Library, University of Utah
Original Source	N/A
Rights	This material may be protected by copyright. Permission required for use in any form. For further information please contact Multimedia Archives, Special Collections, J. Willard Marriott Library, University of Utah.
Type	Image
ARK	ark:/67278/s6pr6102
ID	980521
setname	uum_map
Reference URL	<a href="https://collections.lib.utah.edu/details?id=980521">https://collections.lib.utah.edu/details?id=980521</a>

[Back to Search Results](#)



# Utah Digital Newspapers

https://newspapers.lib.utah.edu

[Advanced Search](#)

Limit your search

1 - 25 of 22,552,800 < 1 2 3 4 5 6 7 8 9 10 >

Gallery mode 25

Sort by Date ascending

**Year**

Start Year - 1850

End Year - 2016





UPDATE

**Type**

- advertisement 1,500,834
- article 16,149,052
- birth 47,652
- death 321,565
- issue 178,931
- masthead 165,414
- page 1,887,528
- unclassified 2,184,462
- wedding 117,352

**Paper**

- American Eagle 11,665
- American Fork Citizen 28,658
- Beaver County News 145,673
- Beaver/Weekly Press 84,837
- Box Elder News 107,672
- Brigham City Bugler 16,984
- Broad Ax 7,975

	Title	Paper	Date	Type
1	 <a href="#">Deseret News, 1850-06-15</a>	Deseret News	1850-06-15	issue
2	 <a href="#">Deseret News, 1850-06-15 Page 2</a>	Deseret News	1850-06-15	page
3	 <a href="#">Deseret News, 1850-06-15 Page 3</a>	Deseret News	1850-06-15	page
4	 <a href="#">Deseret News, 1850-06-15 Page 4</a>	Deseret News	1850-06-15	page

## Utah Digital Newspapers

Search

[Advanced Search](#)

## Deseret News, 1850-06-15 Page 1

[Download File \(441.55K\)](#)

## Contents

## Page 1

Untitled

Motto - "Truth and Liberty"

U. S. Senate

Terrible Fire in San Francisco

## Page 2

The Message

## Page 3

The Mormons

## Page 4

Untitled

Office of Delivery

Untitled

A Singular Story

## Page 5

Cholera

## Page 6

Later from Lake Superior

Police Intelligence

## Page 7

The ...

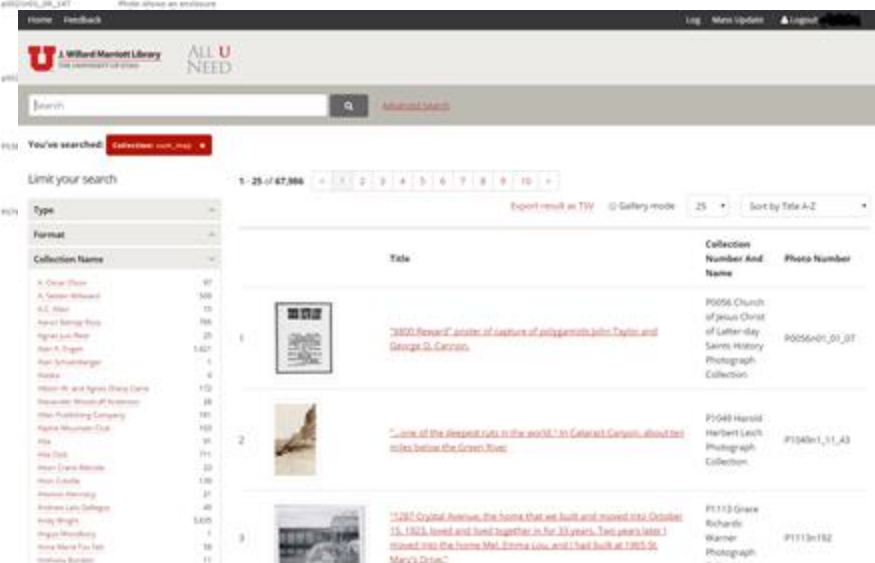
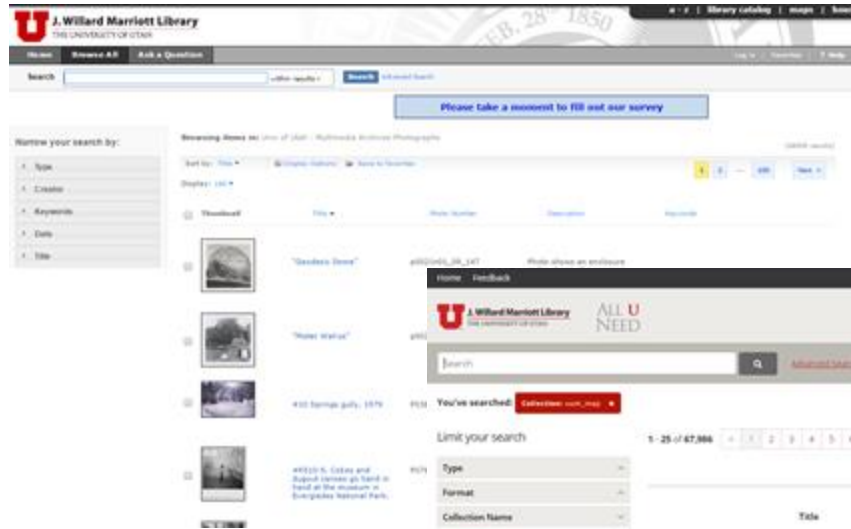
# Exposing Hidden Digital Collections Overview

1. Pre-migration work

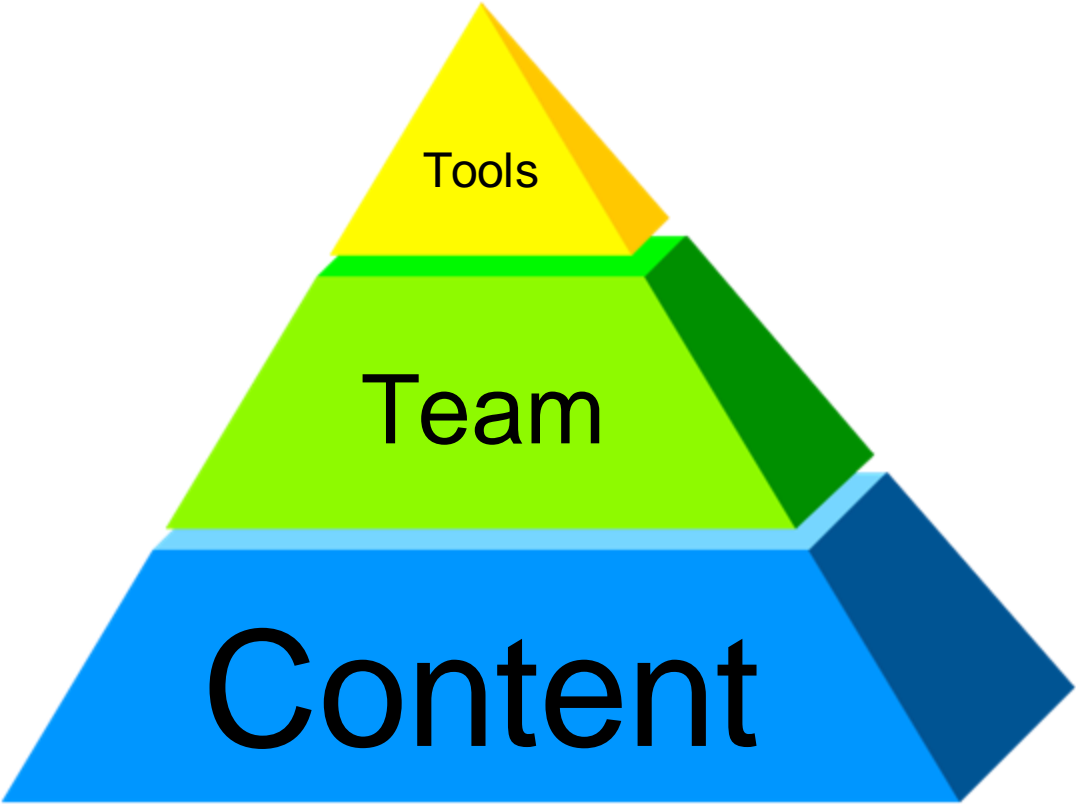
2. Migration

3. Post-migration work

4. Lessons learned



# Migration Project Management



# Lessons Learned

Wild wild west of metadata wrangling



Shooting of Patrick Coughlin

<https://collections.lib.utah.edu/details?id=962118>

Don't keep shoveling  
while it is still snowing!



Unidentified man holding snow shovel in front of his house,  
(family, friend or acquaintance of Norman D. Nevills).  
<https://collections.lib.utah.edu/details?id=984034>

Thank you! Please contact us if you have any questions.

Jeremy Myntti ([jeremy.myntti@utah.edu](mailto:jeremy.myntti@utah.edu))

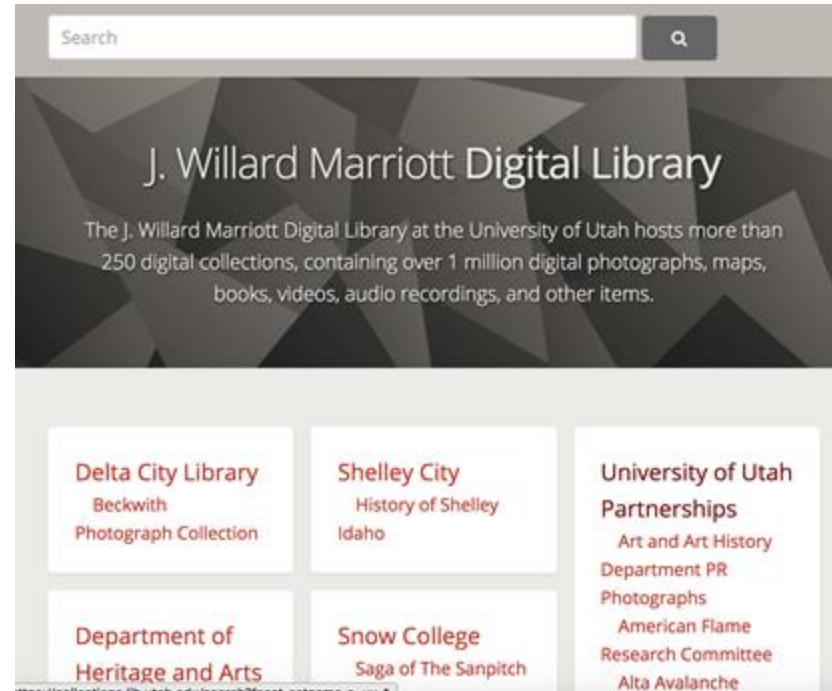
Alan Witkowski ([alan.witkowski@utah.edu](mailto:alan.witkowski@utah.edu))

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