

# Developing Shareable Metadata for DPLA

Hannah Stitzlein

Visiting Metadata Services Specialist for the Illinois Digital Heritage Hub  
University of Illinois at Urbana-Champaign



ILLINOIS  
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

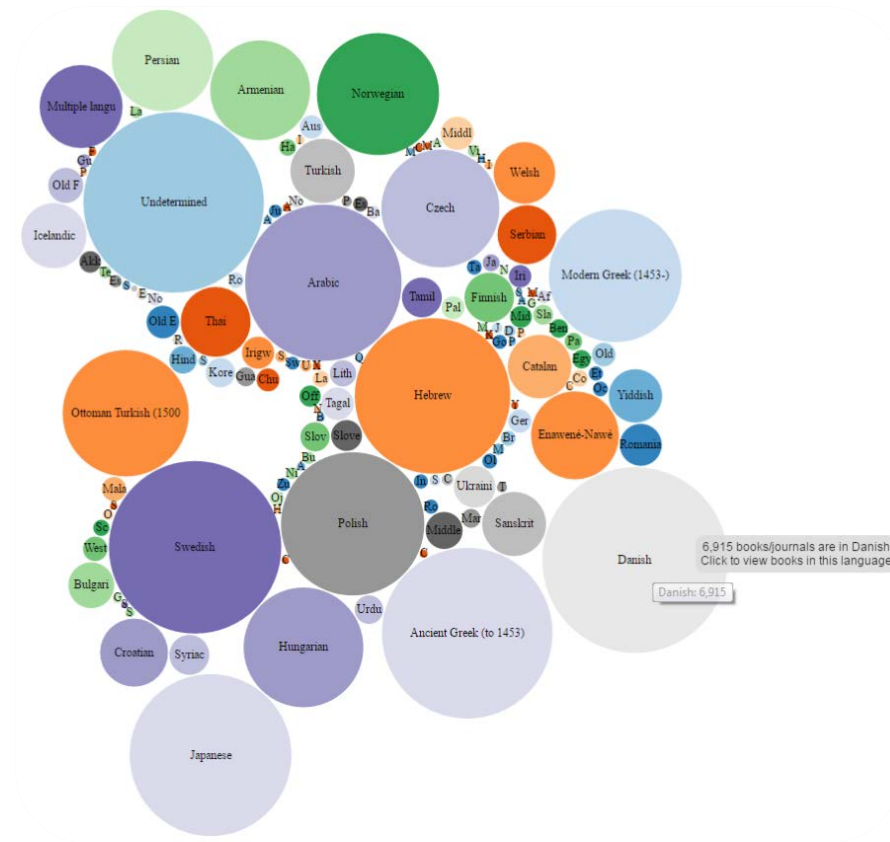
# Module Overview

## Part 1

- ▶ Metadata in DPLA
  - ▶ Shareable Metadata
  - ▶ Mapping
  - ▶ Metadata Enrichment

## Part 2

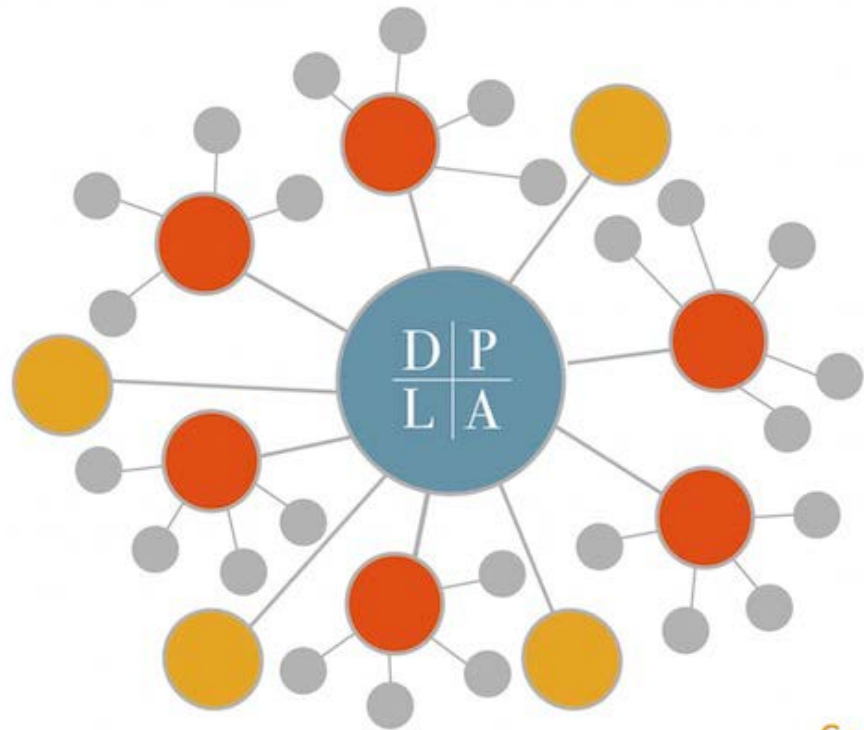
- ▶ IDHH Metadata Best Practices
  - ▶ Controlled Vocabularies & Mapping
  - ▶ IDHH Harvested Fields



# Part 1

## An Introduction to Metadata in DPLA

# What Is the DPLA?



Content Hubs  
Service Hubs

Service Hubs  
Content Hubs

- ▶ Portal to digital resources from cultural heritage institutions across the U.S.
- ▶ Aggregator of metadata from contributors
- ▶ Providing access to more than 16 million digital resources

# What Does Your Metadata Look Like in DPLA?

« back to search results

Search the Library

## Barreling apples - house, grain building



Get full image from The History Center in Tompkins County

Creator	Morton, Verne
Created Date	1906
Partner	Empire State Digital Network
Contributing Institution	The History Center in Tompkins County South Central Regional Library Council
Publisher	The History Center in Tompkins County
Description	Two men packing apples into baskets and barrels, large pile of apples on the left, house and grain building in background.
Format	Photograph: glass plate neg., b+w still image
Type	image
Subject	Adults Apples Barrels
Rights	The History Center in Tompkins County holds copyright and reproductions rights. Prior written permission is required for any use of this image.
URL	<a href="http://cdm16694.contentdm.oclc.org/cdm/ref/collection/p15085coll6/id/52">http://cdm16694.contentdm.oclc.org/cdm/ref/collection/p15085coll6/id/52</a>

« Previous Next » Save To... Share

Created Date  
1906

[View on timeline »](#)



### Description

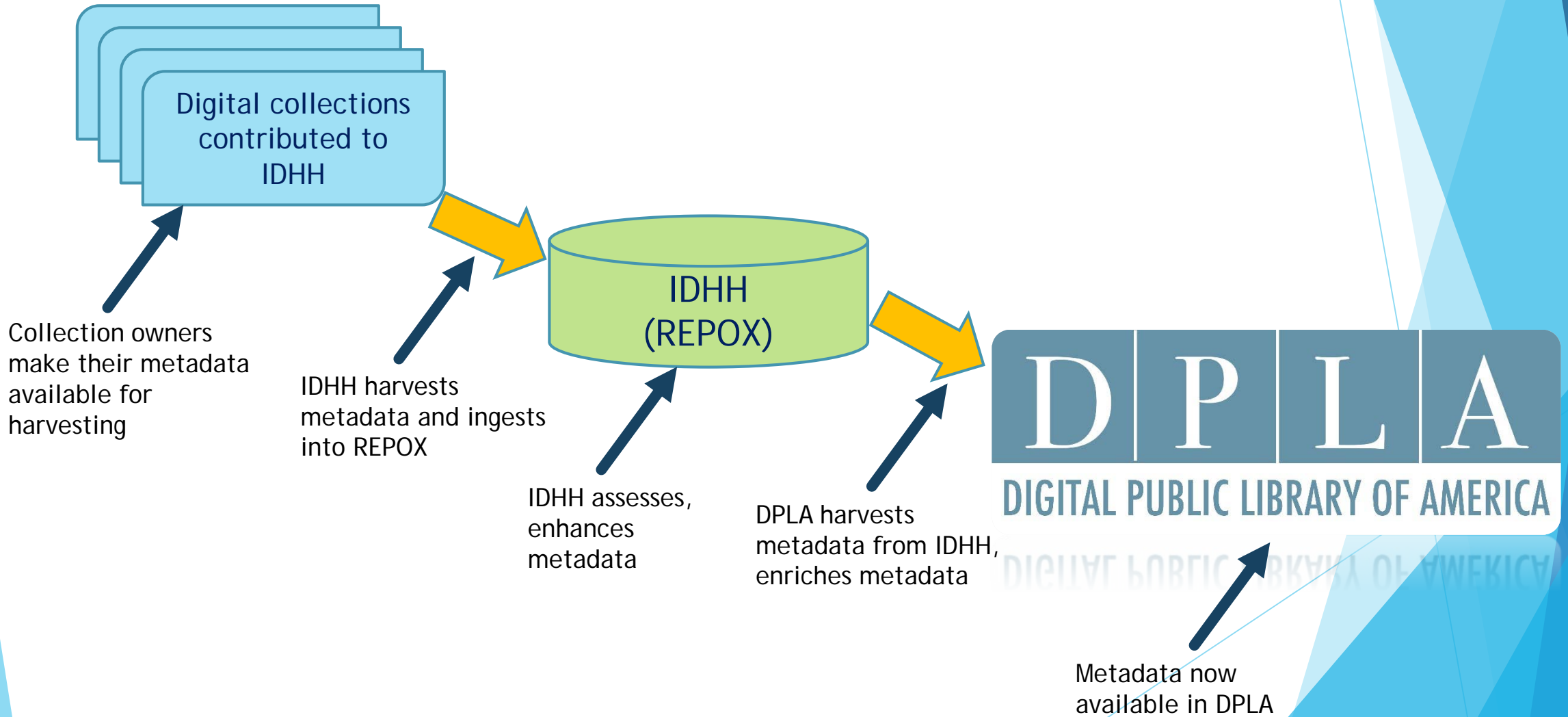
Rating	★★★★★ Based on 0 rating(s)
Title	Barreling apples - house, grain building
Description	Two men packing apples into baskets and barrels, large pile of apples on the left, house and grain building in background
Creator	Morton, Verne
Subject	Adults Apples Barrels
NY Heritage Topic	Agriculture Work & Labor
Publisher of Original	The History Center in Tompkins County
Date of Original	1906
Physical Format	Negatives (photographic)
Physical Description	Photograph: glass plate neg., b+w; 5 X 7 in (17 X 12 cm)
Type	Still image
Identifier	N1.1419 M# 1537
Holding Institution	The History Center in Tompkins County
Contact Information	The History Center in Tompkins County, 401 East State Street, Suite 100, Ithaca, NY 14850, 607-273-8284, www.thehistorycenter.net
Publisher of Digital	The History Center in Tompkins County
Digital Collection	Verne Morton Photograph Collection
Library Council	South Central Regional Library Council
Notes	Verne Morton Photograph Collection; Verne Morton Record Book, P. 62
Rights	The History Center in Tompkins County holds copyright and reproductions rights. Prior written permission is required for any use of this image.
File Name	VX5001_010

AX2001\_010

The History Center in Tompkins County holds copyright and reproductions rights. Prior written permission is required for any use of this image.

AX2001\_010

# Metadata: From Your CMS to DPLA



# What is shareable metadata?



## The 6 C's and Lots of S's

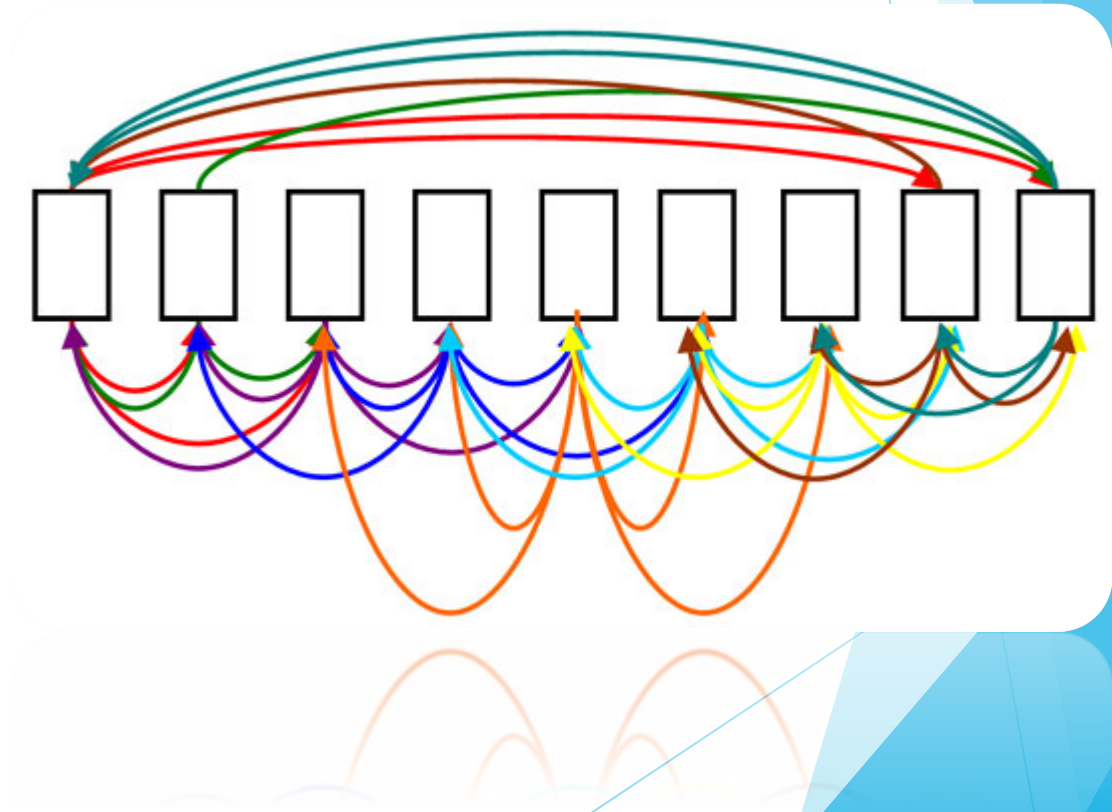
- ▶ Content
- ▶ Consistency
- ▶ Coherence
- ▶ Context
- ▶ Communication
- ▶ Conforms to Standards

From Sarah L. Shreeves, Jenn Riley, and Liz Milewicz.  
"Moving Towards Shareable Metadata."



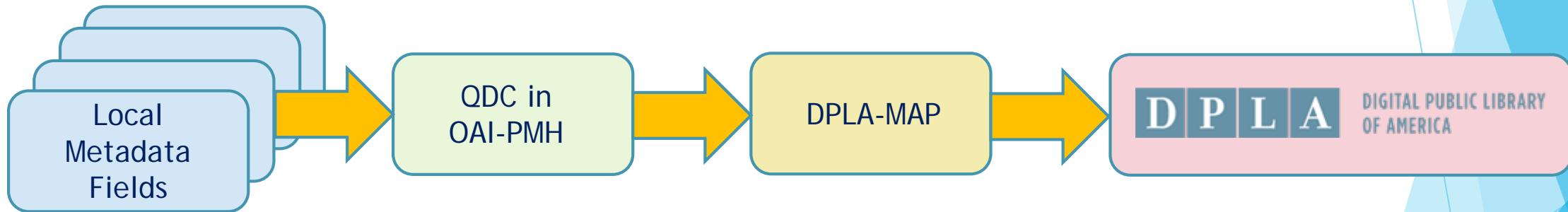
# Why Does Shareable Metadata Matter?

- ▶ Digital resources are represented well
- ▶ Links with other resources





# What is mapping and why does it matter in DPLA?



# Why Mapping Matters

Local Label	Dublin Core Field	Value
Audio Exists	<dc:description>	Yes
Description	<dc:description>	Color video of a field day at the University of Lautrec in the Spring semester of 1965.



DPLA Label	Dublin Core Field	Value
Description	<dc:description>	Yes Color video of a field day at the University of Lautrec in the Spring semester of 1965.

Without the local label, the meaning of the value is lost

# Mapping Alternative 1: Provide Context

Local Label	Dublin Core Field	Value
Audio Exists	<dc:description>	Yes, audio exists
Description	<dc:description>	Color video of a field day at the University of Lautrec in the Spring semester of 1965.



DPLA Label	Dublin Core Field	Value
Description	<dc:description>	Yes, audio exists Color video of a field day at the University of Lautrec in the Spring semester of 1965.

There is now a context for "Yes" outside of native environment

# Mapping Alternative 2: Not Available

Local Label	Dublin Core Field	Value
Audio Exists	<i>Not mapped to DC</i>	Yes
Description	<dc:description>	Color video of a field day at the University of Lautrec in the Spring semester of 1965.



DPLA Label	Dublin Core Field	Value
Description	<dc:description>	Color video of a field day at the University of Lautrec in the Spring semester of 1965.

There is now no value of "Yes" made available to DPLA.

DPLA Label	DPLA Property	QDC Element	DC Element	MODS Element
Alternative Title	dcterms:alternative	dcterms:alternative	<i>No suggested mapping*</i>	<titleInfo type="alternative"><title>
Collection	dcterms:isPartOf	dcterms:isPartOf	<i>No suggested mapping</i>	<relatedItem type="series">
Contributor	dcterms:contributor	dcterms:contributor	dc:contributor	<name><namePart> where <name> also contains <role><roleTerm>contributor</role>
<b>Creator</b>	dcterms:creator	dcterms:creator	dc:creator	<name><namePart> where <name> contains <role><roleTerm>creator</role>
<b>Date</b>	dc:date	dc:date	dc:date	<originInfo><dateCreated keyDate="yes">
<b>Description</b>	dcterms:description	dcterms:description	dc:description	<note type="content">
Extent	dcterms:extent	dcterms:extent	<i>No suggested mapping</i>	<physicalDescription><extent>
Identifier	dcterms:identifier	dc:identifier	dc:identifier	<identifier>
<b>Language</b>	dcterms:language	dcterms:language	dc:language	<language><languageTerm>
Medium	dcterms:medium	dcterms:medium	<i>No suggested mapping</i>	<physicalDescription><form>
<b>Place</b>	dcterms:spatial	dcterms:spatial	dc:coverage	<subject><geographic>
<b>Publisher</b>	dcterms:publisher	dcterms:publisher	dc:publisher	<originInfo><publisher>
Relation	dc:relation	dc:relation	dc:relation	<relatedItem><location><url> and/or <relatedItem><titleInfo><title>
<b>Rights</b>	dc:rights	dc:rights	dc:rights	<accessCondition>
<b>Subject</b>	dcterms:subject	dc:subject	dc:subject	<subject><topic>
Temporal Coverage	dcterms:temporal	dcterms:temporal	dc:coverage	<subject><temporal>
<b>Title</b>	dcterms:title	dc:title	dc:title	<titleInfo><title>
<b>Type</b>	dcterms:type	dc:type	dc:type	<typeOfResource>

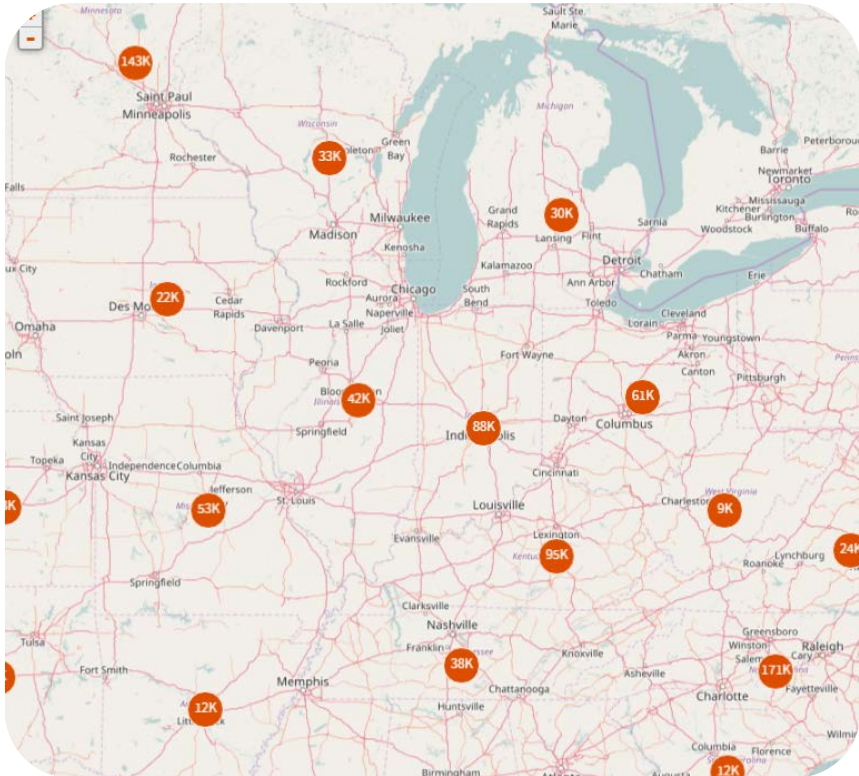
# What Metadata Does DPLA Enrich?

- ▶ Geographic metadata in `<dcterms:spatial>`
- ▶ Creation date metadata in `<dc:date>`





# Geographic Enrichment



- ▶ `<dcterms:spatial>`
- ▶ DPLA enriches geographic data by matching values with known geographic vocabularies, typically GeoNames
- ▶ Formatting matters!
- ▶ It is best for geographic values to be in a single field

`<dcterms:spatial>Cairo, Alexander County, Illinois</dcterms:spatial>`

- ▶ Not

`<dcterms:spatial>Cairo</dcterms:spatial>`

`<dcterms:spatial>Alexander County</dcterms:spatial>`

`<dcterms:spatial>Illinois</dcterms:spatial>`





# Why Formatting Matters

Local content management system:

```
<dcterms:spatial>Cairo</dcterms:spatial>  
<dcterms:spatial>Alexander  
County</dcterms:spatial>  
<dcterms:spatial>Illinois</dcterms:spatial>
```

Gets enriched by DPLA to:

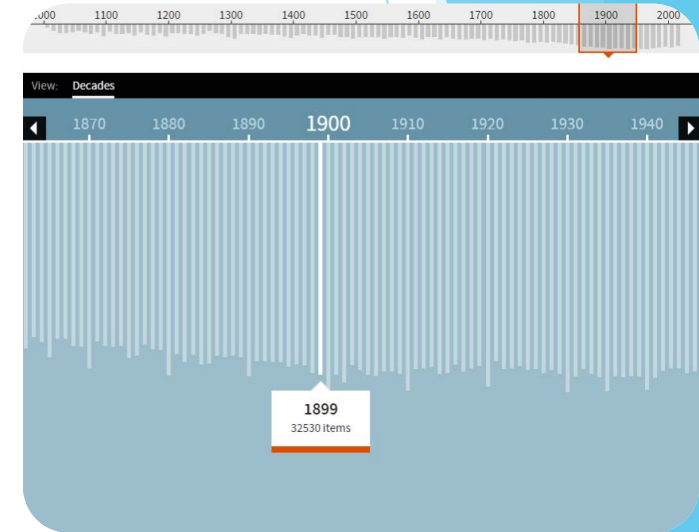
```
"spatial": [  
  {  
    "name": "Cairo",  
    "state": "Cairo",  
    "coordinates": "30.05, 31.65",  
    "country": "Egypt "  
  },  
  {  
    "name": "Alexander County",  
    "state": "North Carolina",  
    "coordinates": "35.921, -81.177",  
    "country": "United States "  
  }  
],  
{  
  "name": "Illinois",  
  "state": "Illinois",  
  "coordinates": "40.00032, -89.25037",  
  "country": "United States"  
},  
]
```

The geographic enhancement is not able to understand that the values are linked, so it results in the top hit being used for the enrichment.

# Date Enrichment

- ▶ <dc:date>
- ▶ DPLA uses the date of creation for Timeline search function
- ▶ Digital Objects without dates cannot be found with this function

Created Date	June 18, 1899
Partner	University of Illinois at Urbana-Champaign
Contributing Institution	University of Illinois at Urbana-Champaign, University Library
Description	Equipment for ironing sheets. Cannon's Album of Photographs of the Danville Soldier's Home (1897-1908).
Location	Danville , IL
Location	DANVILLE , IL



A callout box with a white background and a grey border. It contains the text 'Created Date' followed by 'June 18, 1899' on the next line. Below this, there is a link that says 'View on timeline »' in a blue font. To the right of the text is a small, square thumbnail image of the timeline interface shown in the previous figure. An orange oval highlights the entire callout box, and a line connects it to the 'Created Date' field in the table above.

# DPLA and Social Media

“...DPLA prefers not to highlight watermarked or branded resources because they limit full access and reuse--even in educational cases--by obscuring or otherwise detracting from the content within the resource.”

--DPLA Social Media Policy

TWEETS 4,154 FOLLOWING 718 FOLLOWERS 30.8K LIKES 1,404 LISTS 3



← 9 ♡ 4



DPLA @dpla · Jan 24

Have you seen #HiddenFigures? Find more on the space race they helped make possible: [dp.la/exhibitions/ex ...](https://dp.la/exhibitions/ex...)  
@USNatArchives



← 13 ♡ 8



DPLA @dpla · Jan 23

Registration is open for #DPLAfest2017!

# Resources Available to All

## Page 1

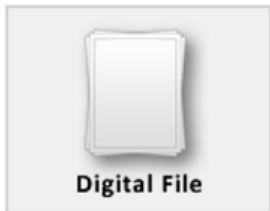


Creator	Kennedy, Amos Paul, Jr
Partner	University of Illinois at Urbana-Champaign
Contributing Institution	University of Illinois at Urbana-Champaign, University Library
URL	<a href="http://imagesearchnew.library.illinois.edu/cdm/ref/collection/kennedy/id/44">http://imagesearchnew.library.illinois.edu/cdm/ref/collection/kennedy/id/44</a>

Get full item from University of Illinois at Urbana-Champaign, University Library 

## Page 1

[View Description](#)



702.81\_k38g\_(beige)\_Side\_1\_(blank\_panel,\_four\_panels\_with\_trees,\_panel\_with\_quote).81\_k38g\_(beige)\_ [0]

File Format: Digital file

- ▶ DPLA wants resources that are accessible to all
  - ▶ Free of IP restrictions
  - ▶ Free of copyright restrictions with limited viewing
  - ▶ Metadata that includes a digital object
- ▶ Have restricted resources?
  - ▶ Add  
<dc:relation>notdpla</dc:relation>
    - ▶ IDHH will remove them

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the slide, creating a modern, layered effect.

## Part 2

# IDHH Metadata Best Practices

# How and Why Were These Developed?

- ▶ To guarantee metadata will be:
  - ▶ Located in appropriate fields
  - ▶ Represented well
  - ▶ Findable
- ▶ Important when metadata is viewable in service provider environment
- ▶ These guidelines were created for effective representation of IDHH resources in DPLA





# IDHH Metadata Best Practices Include

- ▶ **Definitions** Each field includes definitions that describes the scope of use
- ▶ **Notes of use** Some fields include notes that describe the best use of the field
- ▶ **Controlled Vocabularies** A list of controlled vocabularies are included to encourage consistent practices
- ▶ **Examples** Each field includes examples to better illustrate the use of the field

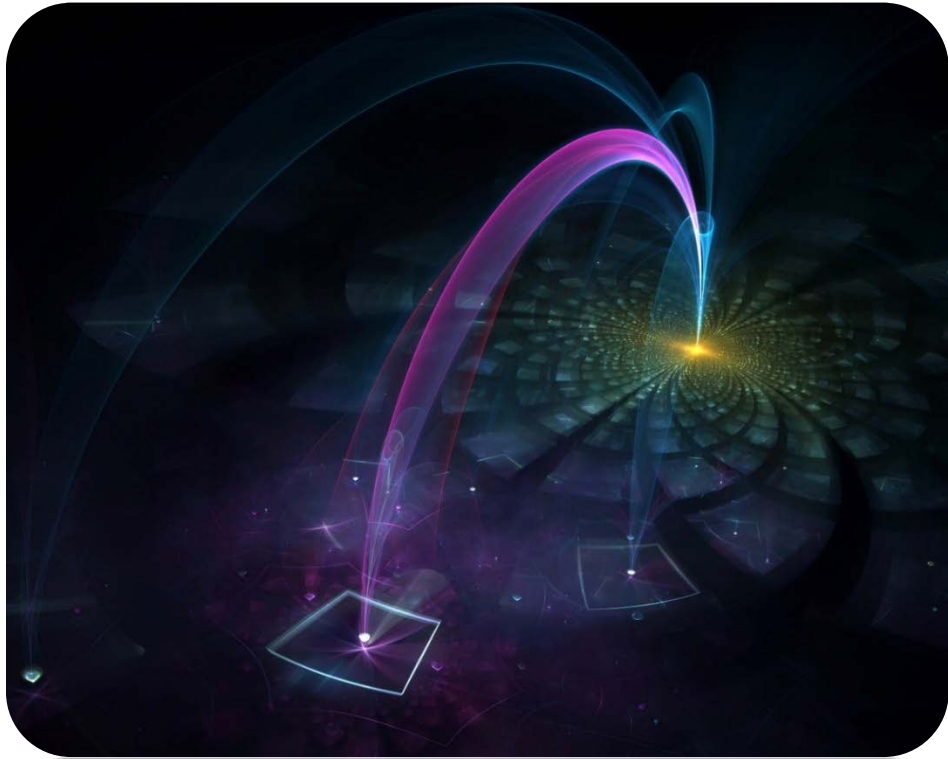


# Why Controlled Vocabularies Matter

- ▶ Consistent terms
- ▶ Subject terms are linked with other resources with same terms
- ▶ Aides in DPLA metadata enrichment



# What Is Mapping And Why Does It Matter in DPLA?



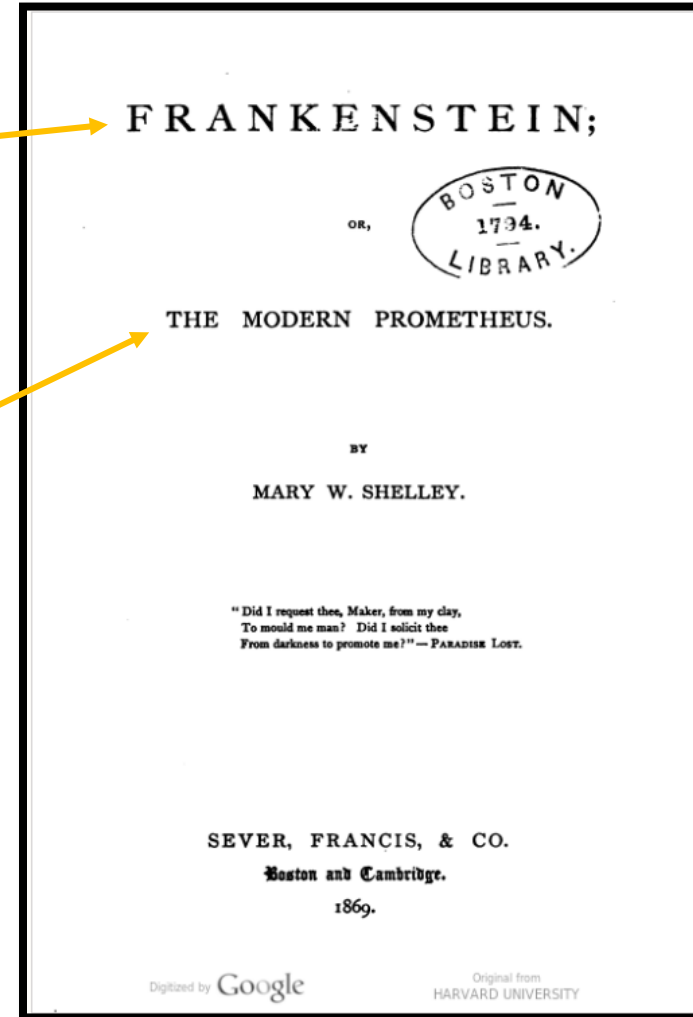
## Mapping Enables...

- ▶ Interoperability between schema
- ▶ Metadata to be viewable in service providers' environments

DPLA Label	DPLA Property	QDC Element	DC Element	MODS Element
Alternative Title	dcterms:alternative	dcterms:alternative	<i>No suggested mapping*</i>	<titleInfo type="alternative"><title>
Collection	dcterms:isPartOf	dcterms:isPartOf	<i>No suggested mapping</i>	<relatedItem type="series">
Contributor	dcterms:contributor	dcterms:contributor	dc:contributor	<name><namePart> where <name> also contains <role><roleTerm>contributor</role>
<b>Creator</b>	dcterms:creator	dcterms:creator	dc:creator	<name><namePart> where <name> contains <role><roleTerm>creator</role>
<b>Date</b>	dc:date	dc:date	dc:date	<originInfo><dateCreated keyDate="yes">
<b>Description</b>	dcterms:description	dcterms:description	dc:description	<note type="content">
Extent	dcterms:extent	dcterms:extent	<i>No suggested mapping</i>	<physicalDescription><extent>
Identifier	dcterms:identifier	dc:identifier	dc:identifier	<identifier>
<b>Language</b>	dcterms:language	dcterms:language	dc:language	<language><languageTerm>
Medium	dcterms:medium	dcterms:medium	<i>No suggested mapping</i>	<physicalDescription><form>
<b>Place</b>	dcterms:spatial	dcterms:spatial	dc:coverage	<subject><geographic>
<b>Publisher</b>	dcterms:publisher	dcterms:publisher	dc:publisher	<originInfo><publisher>
Relation	dc:relation	dc:relation	dc:relation	<relatedItem><location><url> and/or <relatedItem><titleInfo><title>
<b>Rights</b>	dc:rights	dc:rights	dc:rights	<accessCondition>
<b>Subject</b>	dcterms:subject	dc:subject	dc:subject	<subject><topic>
Temporal Coverage	dcterms:temporal	dcterms:temporal	dc:coverage	<subject><temporal>
<b>Title</b>	dcterms:title	dc:title	dc:title	<titleInfo><title>
<b>Type</b>	dcterms:type	dc:type	dc:type	<typeOfResource>

# Title & Alternative Title

- ▶ *Title*
- ▶ **Use:** Primary name given to the described resource. Titles with identifiers, filenames, or archival organization units should not be included.
- ▶ *Alternative Title*
- ▶ **Use:** Alternative name for the resources, including subtitles or varying form of a title



# Rights


## Use:

- ▶ Rights held in and over the resource, usually the condition of use or the copyright statement for the resource


## Controlled Vocabularies:


- ▶ Creative Commons Licenses
- ▶ RightsStatements.org

### The Brummagem Frankenstein



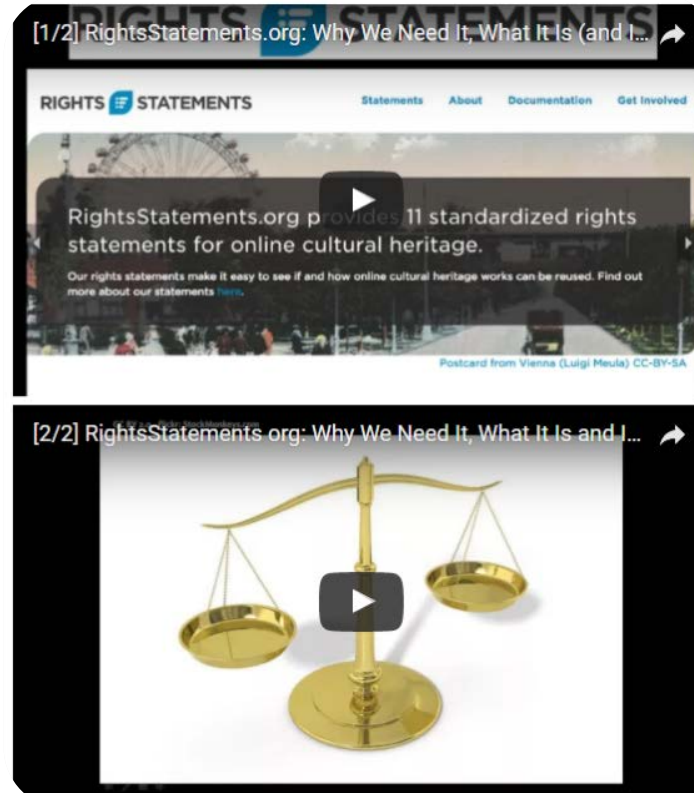
Created Date	1866-1866
Partner	The New York Public Library
Contributing Institution	The Miriam and Ira D. Wallach Division of Art, Prints and Photographs: Print Collection. The New York Public Library
Location	London
Type	image
Subject	Bright, John, 1811-1889 Clippings Portraits
Standardized Rights Statement	The copyright and related rights status of this Item has been reviewed by the organization that has made the Item available, but the organization was unable to make a conclusive determination as to the copyright status of the Item. Please refer to the organization that has made the Item available for more information. You are free to use this Item in any way that is permitted by the copyright and related rights legislation that applies to your use. <a href="http://rightsstatements.org/vocab/UND/1.0/">http://rightsstatements.org/vocab/UND/1.0/</a>
Rights	The copyright and related rights status of this item has been reviewed by The New York Public Library, but we were unable to make a conclusive determination as to the copyright status of the item. You are free to use this Item in any way that is permitted by the copyright and related rights legislation that applies to your use.
URL	<a href="http://digitalcollections.nypl.org/items/510d47dd-ca76-a3d9-e040-e00a18064a99">http://digitalcollections.nypl.org/items/510d47dd-ca76-a3d9-e040-e00a18064a99</a>

 **COPYRIGHT UNDETERMINED**

Get full image from The Miriam and Ira D. Wallach Division of Art, Prints and Photographs: Print Collection. The New York Public Library 

# Rights: Things to Consider

- ▶ Ownership ≠ Copyright Holder
- ▶ Rights field should describe copyright
- ▶ Digitization ≠ New copyright
- ▶ Emily Gore & Greg Cram's Rights Statements webinar:
  - ▶ Part 1:  
<https://youtu.be/IEqObjkV3Wc>
  - ▶ Part 2:  
<https://youtu.be/9L7wOOPcbzo>





# CARLI Implementation of RightsStatements.org

- ▶ Contact Information Field
  - ▶ Should have up to date contact information
- ▶ Rights Field
  - ▶ Description of standardized rights + URI
  - ▶ When provided to DPLA, all but the

Identifier	Local History Series--Railroads
Rights	No Copyright - United States. The organization that has made the Item available believes that the Item is in the Public Domain under the laws of the United States, but a determination was not made as to its copyright status under the copyright laws of other countries. The Item may not be in the Public Domain under the laws of other countries. Please refer to the organization that has made the Item available for more information. <a href="http://rightsstatements.org/vocab/NoC-US/1.0/">http://rightsstatements.org/vocab/NoC-US/1.0/</a>
Collection	Railroads in the Midwest, Early Documents and Images (Knox College)
Date Digital	2008-10-20
Physical Description	5.5 x 4 in. print on slightly larger mount
Filename	chatsworth001.jpg
Contact Information	Please contact the Knox College Special Collections and Archives via email at <a href="mailto:archives@knox.edu">archives@knox.edu</a> or phone 309-341-7392 if you have questions or need more information about this item.

Information Contact Please contact the Knox College Special Collections and Archives via email at [archives@knox.edu](mailto:archives@knox.edu) or phone 309-341-7392 if you have questions or need more information about this

Filename chatsworth001.jpg

# Identifier

Use:

- ▶ Web accessible URI that distinctively identifies the resource

Example:

- ▶ [http://collections.carli.illinois.edu/cdm/ref/collection/wiu\\_digimgc/id/2000](http://collections.carli.illinois.edu/cdm/ref/collection/wiu_digimgc/id/2000)

```
<dcterms:isPartOf>Robert Hawley Milne Papers (Lewis University)</dcterms:isPartOf>  
▼<dc:identifier>  
  http://collections.carli.illinois.edu/cdm/ref/collection/lew_rhm/id/194  
</dc:identifier>  
</oai qdc:qualifieddc>
```

# Date & Temporal Coverage

## *Date*

### Use:

- ▶ Date of creation of the resource

### Controlled Vocabularies:

- ▶ Extended Date/Time Format

## *Temporal Coverage*

### Use:

- ▶ Temporal characteristics of the resource

Creator	Clesi, N. J.; Morse, Theodore (arranger); Clesi, N. J
Created Date	1918
Partner	<a href="#">Illinois Digital Heritage Hub</a>
Contributing Institution	<a href="#">University of Illinois at Chicago</a>
Type	text

Created Date  
1918

[View on timeline »](#)



Subject (unesco)	<a href="#">Indigenous populations</a> <a href="#">Travel</a>
Coverage date	1890/1900
Photographer	Unknown
Publisher (of the digital version)	<a href="#">University of Southern California. Libraries</a>

# Place

## Use:

- ▶ Spatial characteristics of the resource, such as a country, city, region, address, or other geographical term.

## Controlled Vocabularies:

- ▶ FAST Terms
- ▶ GeoNames
- ▶ Getty Thesaurus for Geographic Names
- ▶ Library of Congress Subject Headings

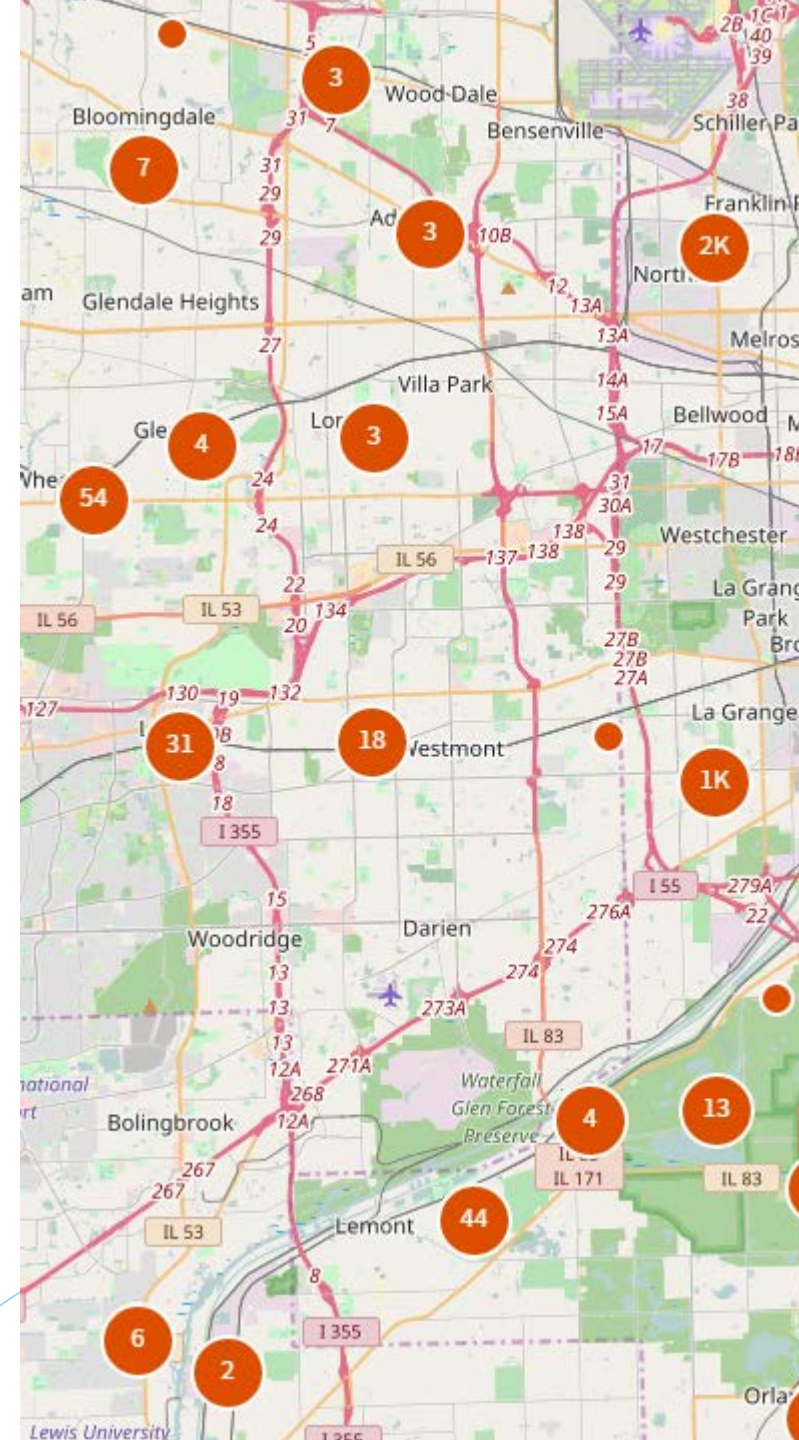
## ▶ Example:

*This LCSH term is in direct form, with the jurisdiction the park is located in parentheses.*

- ▶ Place: Lincoln Park (Chicago, Ill.)

*FAST terms are in inverted form as State–City–Place.*

- ▶ Place: Illinois–Chicago–Lincoln Park



# Language

*Language*

Use:

- ▶ A language of the resource

Controlled Vocabularies:

- ▶ ISO 639-2
- ▶ ISO 639-3

Language	
English	768
No linguistic content	5
Spanish	4
French	3
Dutch	2

# Subject

## Use:

- ▶ The topic of the resource

## Controlled Vocabularies:

- ▶ FAST Terms
- ▶ Library of Congress Subject Headings
- ▶ Local controlled vocabulary
- ▶ VIAF

Subject	Restaurants--California--Los Angeles Wedding cakes--California--Los Angeles Cakes--California--Los Angeles Bakers and bakeries--California--Los Angeles
---------	--

Subject	Spouses Families Celebrations Anniversaries
---------	--

# Creator & Contributor

## *Creator*

### Use:

- ▶ An entity primarily responsible for making the resource



## *Contributor*

### Use:



- ▶ Entity responsible for making contributions to the resource

## Controlled Vocabularies:

- ▶ Getty Union List of Artist Names
- ▶ Library of Congress Name Authority Files
- ▶ VIAF
- ▶ Local controlled vocabularies

	Creator	Thompson Brothers
<a href="#">Get full image from Knox County Public Library</a> 	Created Date	1934-09-26
	Partner	<a href="#">Digital Library of Tennessee</a>
	Contributing Institution	<a href="#">Knox County Public Library</a>

	Creator	Nollau, Louis Edward, 1883-1955
<a href="#">Get full image from University of Kentucky</a> 	Partner	<a href="#">Kentucky Digital Library</a>
	Contributing Institution	<a href="#">University of Kentucky</a>
	Format	Images
	Type	image

<b>Publisher:</b> Yorba Linda Public Library
<b>Contributor:</b> First American Corporation
<b>Date:</b> 1912



# Medium & Extent

## *Medium*

### Use:

- ▶ Physical medium of described resource

### Controlled Vocabularies:

- ▶ Art and Architecture Thesaurus
- ▶ Thesaurus of Graphic Materials

#### **GENRES**

Charcoal drawings

#### **GENRES**

Watercolors

## *Extent*

### Use:

- ▶ The duration, such as the length of a video or audio recording, or the size of a resource

#### **PHYSICAL DESCRIPTION**

Extent: 10.5 x 13 cm.

#### **PHYSICAL DESCRIPTION**

35 mm film, black and white

Extent: One of six frames

Extent: Negative Size: 1 3/8 x 8 3/4 in. (3.5 x 22.2 cm)

# Relation

## *Relation*

### Use:

- ▶ Related resource, used to connect other resources with the resource being described

**Digital Collection:** Robert W. Limbert Collection

**Related Resources:** Is part of: MSS 80, Robert W. Limbert Collection

Is referenced by: Photo published in the U.S. West 1992 calendar ("The American West: Where Cultures Meet") kept in MSS 80 Box 24 (oversize). Quote from calendar: "Doc Hisom, far left, was a miner in the Snake River region of Idaho. Boise newspapers called him the "Hermit of the Snake River desert" but that glum title aside, Hisom's hospitality was famous with fishermen and picnickers in the Snake River region in the early twentieth century. While much of recent writing about western American history has accented conflict and friction among racial groups, the reality of western people occasionally whooping it up in each others company remains a memorable and very human part of the story."

**Collection Partner:** Boise State University - Albertsons Library

**Digital Repository:** Boise State University Library Digital Collections

# Thanks! Questions?

Hannah Stitzlein

[hannahes@Illinois.edu](mailto:hannahes@Illinois.edu)

217-300-4525