

Creating Shareable Metadata

Pre-Conference at WebWise 2006:
Inspiring Discovery: Unlocking Collections
Los Angeles, CA February 15, 2006



Jenn Riley, Indiana University

Sarah Shreeves, University of Illinois at Urbana-Champaign

Liz Milewicz, Emory University

What does this record describe?

- identifier:** [http://name.university.edu/IC-FISH3IC-X0802\]1004_112](http://name.university.edu/IC-FISH3IC-X0802]1004_112)
- publisher:** Museum of Zoology, Fish Field Notes
- format:** jpeg
- rights:** These pages may be freely searched and displayed. Permission must be received for subsequent distribution in print or electronically.
- type:** image
- subject:** 1926-05-18; 1926; 0812; 18; Trib. to Sixteen Cr. Trib. Pine River, Manistee R.; JAM26-460; 05; 1926/05/18; R10W; S26; S27; T21N
- language:** UND
- source:** Michigan 1926 Metzelaar, 1926--1926;
- description:** Flora and Fauna of the Great Lakes Region

*Dublin Core record retrieved
via the OAI Protocol*

Orig. No. 460 Sta. No.

Locality Michigan: Trib. to Sixteen Cr., Sec. 26-27,
T. 21N. R. 10W., Wexford Co.

Trib. Pine River → Mainstem
Water: mostly spring-fed; clear, spring floods rather
some surface rather bad.

Vegetation: not much at ^{all} absolutely nothing

Bottom: sand; no mud, rather deep. Temp. 47° air 62°

Shore: mostly cleared → farms & some brush Current: ~~ft~~

Distance from shore: across width 4 ft Tide:

Depth of capture: Depth of water: 6 in! ft.

Method of capture:

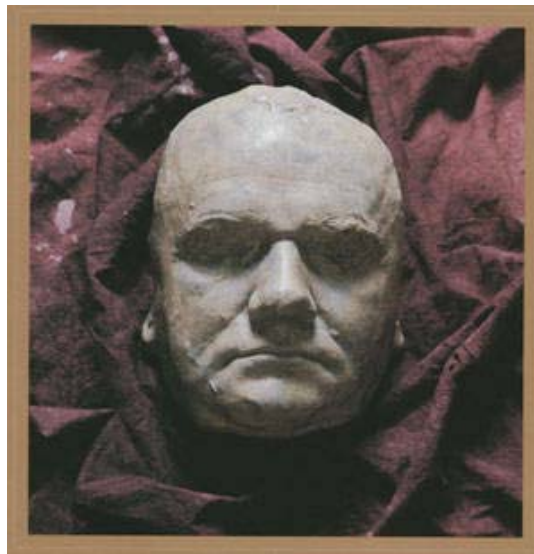
Collected by Metzger Date: V: 18: 1926

Orig. preserv. Time:

Animal life subnormal

And this one?

- [Sample Record](#) (adapted from an Illinois database)



Agenda

1. Introduction
2. Why share metadata anyway?
3. What is shareable metadata?
4. How do you create shareable metadata?
5. Communication and documentation
6. Before you share...

Time for questions
between each section

Packets

Break around 2:45



We hope that you will leave today and...

- Understand the **need** for interoperable or shareable metadata
- Understand the **impact** your metadata has on larger aggregations
- Understand the **key components** of shareable metadata
- **Think critically** about the shareability of their own metadata.

What we aren't covering...

- How to share metadata (whether via the OAI Protocol, SRW/U, FTP, CD-ROM, Cooperative Cataloging, Excel Spreadsheet!)
- Details of technical aspects of shareable metadata such as XML schema & namespaces
- How to use specific metadata formats



One Size Does Not Fit All!

Questions?



Why share metadata anyway?

- Benefits to users
 - Single search of a variety of digital resources
 - Aggregation of subject-specific resources
 - *Higher quality* resources
- Benefits to institutions
 - Increased user access to collection by allowing metadata to appear in other places
 - Exposure to broader audience, new users
 - Surfacing rare, unknown, or scattered collections



Different shapes and sizes...

- Range of different aggregations:
 - focused subject area v. comprehensive
 - specialized audience v. general audience
- Range of different displays



Metadata aggregators

- **CIC Metadata Portal**

<http://cicharvest.grainger.uiuc.edu/>

- Records and digital resources shared by consortium of institutions, *provided for*
- Educators, researchers, and general public

Benefits:

Single comprehensive search of multiple collections and a variety of disciplines

[Next](#)

CIC Metadata Portal



Search CIC Library Resources



Simple search

Bibliographic search

Browse collections

Project Details

Help

Advanced Search

Search within particular fields (help)

Use a word or phrase, e.g., diploma*, fancy dress

Title: and

Author/
Creator: and

Subject: and

Resource
Type:

- all types
- text
- image
- audio
- video
- sheet music
- software
- thesis
- website

Choose sorting order (help)

e.g., results in ascending order, from 2002 to 1999

- title
- date descending
- hit frequency
- weighted hit frequency

search

Simple Search

CIC Search Portal

The CIC metadata portal provides access to a broad range of noteworthy and often singular information resources held by Midwestern research universities belonging to the CIC consortium (Big Ten Athletic Conference Universities, the University of Illinois at Chicago, and the University of Chicago).

The portal allows you to search across many types of content: text, videos, sheet music, thesis and dissertations, Websites, software. Where available, links are provided directly to the information resource on the hosting CIC institution Website.

Browse by Institution

University of Chicago

University of Illinois at Chicago

University of Illinois at Urbana-Champaign

Indiana University

University of Iowa

University of Michigan

Michigan State University

Pennsylvania State University

University of Wisconsin-Madison

University of Minnesota

The Ohio State University

CIC Metadata Portal



Search CIC Library Resources



[Simple search](#)

[Bibliographic search](#)

[Browse collections](#)

[Project Details](#)

[Help](#)

kw: "reading rooms"

196 records.

Refine search

Results by

Sort by

[Next 10 Records](#)

Group results by collection

Jump to Records: [1](#) | [11](#) | [21](#) | [31](#) | [41](#) | [51](#) | [61](#) | [71](#) | [81](#) | [91](#) | [101](#) | [111](#) | [121](#) | [131](#) | [141](#) | [151](#) | [161](#) | [171](#) | [181](#) | [191](#)

Michigan State University:

The Making of Modern Michigan
[3 records](#)

Ohio State University:

The OhioLINK Digital Media Collection
[1 record](#)

University of Chicago:

Archival Photofiles
[186 records](#)

University of Minnesota:

War porters
[1 record](#)

University of Wisconsin-Madison:

Portal to Asian Internet Resources
[1 record](#)

Record 1 of 196

Title	American Library Association Archives: Association for Library Service to Children (ALSC): Publications: Children's Library Yearbooks
Subject	Booklists; Children, Committee on Library Work With; Children's Libraries; Children's Services; Foreign Born, Library Work With The; Salaries
Type	Text
Collection	American Library association finding-aid

Record 2 of 196

Title	American Library Association Archives: International Relations Office (IRO): American Library School in Paris: American Legion Conference Subject File
Subject	American Legion; Paris, American Library in
Type	Archival Material
Collection	American Library association finding-aid

CIC Metadata Portal



Search CIC Library Resources



[Simple search](#)

[Bibliographic search](#)

[Browse collections](#)

[Project Details](#)

[Help](#)

Your search was in the **Subject** field for "**reading rooms**" and in the **Resource Type** field for "**image**".

184 records.

Refine search

Results by

Sort by

[Next 10 Records](#)

Jump to Records: [1](#) | [11](#) | [21](#) | [31](#) | [41](#) | [51](#) | [61](#) | [71](#) | [81](#) | [91](#) | [101](#) | [111](#) | [121](#) | [131](#) | [141](#) | [151](#) | [161](#) | [171](#) | [181](#)

University of Chicago:
Archival Photofiles
[184 records](#)

Record 1 of 184

Title	Joseph Regenstein Library
Series II: Buildings and Grounds	
Reading Rooms	13
Author/Creator	Skidmore, Owings and Merrill; Netsch, Walter, b. 1920
Subject	University of Chicago. Library; Reading rooms ; Students
Type	Image
Collection	Archival Photofiles



Record 2 of 184

Title	Joseph Regenstein Library
Series II: Buildings and Grounds	
Reading Rooms	3
Author/Creator	Skidmore, Owings and Merrill; Netsch, Walter, b. 1920; Feldman, Steven



Metadata aggregators

- **National Science Digital Library**

<http://nsdl.org>


- Online resources and records pertaining to science & math education and research, vetted for inclusion, *provided for*
- Educators, researchers, policy makers, and the general public

Benefits:

Single portal serving a range of resources on a specialized topic to a diverse audience

[Next](#)

NSDL



NSDL
THE NATIONAL SCIENCE DIGITAL LIBRARY

EXPLORE SHARE LEARN CREATE

NSDL Home Larger Type

Home
Search
Browse
Resources For

- ♦ K12 Teachers
- ♦ Librarians
- ♦ NSDL Community
- ♦ University Faculty
- ♦ First Time Users

News

- ♦ New in NSDL
- ♦ Newsfeeds
- ♦ Press

Publications

- ♦ Whiteboard Report
- ♦ Annual Report
- ♦ Newsletter Sign Up

AskNSDL
About NSDL


SEARCH THE NATIONAL SCIENCE DIGITAL LIBRARY

NSDL is the Nation's **FREE** online library for education and research in [Science](#), [Technology](#), [Engineering](#), and [Mathematics](#).


News
[Discovering A Lost World](#)

February 8, 2006 Did you ever wonder if there were any places on earth left to be discovered? An international team of scientists from the Indonesian Institute of Science (LIPI), Conservation International, The South Australian Museum in Adelaide, and the U.S. had that question in mind as their helicopter touched down in a remote lake bed in the unexplored Foja Mountains of western New Guinea. Their month-long adventure began right away as they began spying new and rare species of plants and animals that included butterflies, enormous flowers, a new species of honeyeater bird, and a tree kangaroo (Matschie's tree kangaroo, New Guinea, is shown at right).

[Read More](#)
[Read Previous Highlights](#)



NSDL



NSDL
THE NATIONAL SCIENCE DIGITAL LIBRARY

EXPLORE SHARE LEARN CREATE

NSDL Home > Search Larger Type

Home
Search
Browse
Resources For

- ◆ K12 Teachers
- ◆ Librarians
- ◆ NSDL Community
- ◆ University Faculty
- ◆ First Time Users

News

- ◆ New in NSDL
- ◆ Newsfeeds
- ◆ Press

Publications

- ◆ Whiteboard Report
- ◆ Annual Report
- ◆ Newsletter Sign Up

AskNSDL
About NSDL

NSDL Search Results

[Search Tips](#)

(Displaying results: 1 - 10 of 18) [Next Results](#) →

Title/Description	Resource Format
Bringing Evo Devo to Life Sean Carroll's book shows how the central black box of development that maps phenotypes onto genoty... View all related information - Include/Exclude results like this	
Trends in genomic 'evo-devo' A report on the joint Spring meeting of the British Society of Developmental Biology and the Geneti... View all related information - Include/Exclude results like this	
Evolution and development: some insights from evolutionary theory Developmental biology and evolutionary biology are both mature integrative disciplines which starte...	

NSDL



THE NATIONAL SCIENCE DIGITAL LIBRARY



NSDL Home > Search

Larger Type

- Home**
- Search**
- Browse**
- Resources For**
 - ◆ K12 Teachers
 - ◆ Librarians
 - ◆ NSDL Community
 - ◆ University Faculty
 - ◆ First Time Users
- News**
 - ◆ New in NSDL
 - ◆ Newsfeeds
 - ◆ Press
- Publications**
 - ◆ Whiteboard Report
 - ◆ Annual Report
 - ◆ Newsletter Sign Up
- AskNSDL**
- About NSDL**

[← Back to search results](#)

Title:

[Bringing Evo Devo to Life](#)

Description:

Sean Carroll's book shows how the central black box of development that maps phenotypes onto genotypes is revealing its secrets in many exquisite, and frequently unexpected, ways.

Archives:

[Archived Version](#)

Item Level Metadata:

Collection Level Metadata:

Brand Image
Not Provided

More Information

NSDL OAI identifier	oai:plosbiology.org:10.1371/journal.pbio.0030340
Title	Bringing Evo Devo to Life
Author	Paul M. Brakefield
Subject Keyword(s)	Development
Description	Sean Carroll's book shows how the central black box of development that maps phenotypes onto genotypes is revealing its secrets in many exquisite, and frequently unexpected, ways.
Publisher / Resource Provider	Public Library of Science

More Information

NSDL OAI identifier	oai:nsdl.org:nsdl.nsdl:710541
Title	PLoS Medicine
Subject Keyword(s)	Medicine--Study and teaching, Health, Biological and life sciences
Description	PLoS Medicine is an open-access, peer-reviewed medical journal published monthly, online and in print, by the Public Library of Science (PLoS), a nonprofit organization. PLoS Medicine is an international, multidisciplinary medical journal that aims to publish outstanding human studies that substantially enhance the understanding of human health and disease. We aim to promote translation

Metadata aggregators

- **Collaborative Digitization Program**

<http://www.cdpheritage.org/>

- Records and digital resources from archives, museums, and libraries, pertaining to cultural heritage of the American West
provided for
- Educators, researchers, and the general public

Benefits:

Single portal serving a range of resources on a specialized topic to a diverse audience

Collaborative Digitization Program

The screenshot shows the homepage of the Collaborative Digitization Program (CDP). At the top left is the CDP logo, a stylized 'cdp' in a circle, with the text 'collaborative digitization program' to its right. In the top right corner, there is a vertical navigation menu with links: 'cdp home page', 'about cdp', 'get cdp info', and 'contact cdp'. Below the logo is a horizontal navigation bar with a grid of small squares on the left and right, and the following menu items: 'Digital Toolbox', 'Teacher Toolbox', 'Collections', 'Exhibits', 'Projects', and 'Membership'. The main content area is divided into several sections. On the left, there is a 'Search This Site' section with a search box and a 'go' button. Below that is the 'cdp News' section, which lists several news items: 'Yellowstone National Park offers Library Internship', 'CDP and AASLH to Host Joint Workshops', 'CDP Receives LSTA Continuation Grant', and 'More CDP News...'. Below the news is the 'Become a Member' section, which describes the membership benefits and includes a 'learn more...' link. The central part of the page features a large banner for 'Heritage West' with the text 'Search the cdp collections for: Photographs, maps, documents, sound recordings, objects from museums, libraries, and archives in the west.' Below this banner is a search box and a 'search' button, with links for 'By Category' and 'Advanced Search'. To the right of the banner is a graphic with the text 'Protecting Delivering Growing' and an image of a horse-drawn wagon. Below the banner is a 'Newspapers' section with the text 'Search Newspaper Collection'. Below the newspapers section are four featured items: 'cdp Workshop' (Teaching with CO Historic Newspapers: Pueblo, Feb 18, 2006), 'Best Practices' (Digital Imaging, Dublin Core Metadata, Digital Audio), 'Lesson Plans' (Created by teachers for teachers, view all lessons), and 'Member Spotlight' (The Naropa Archive Project is preserving and providing access to over 3500 recordings made at Naropa University since 1974. The collection was developed under the auspices more... Meet our members About CDP Membership).

February 15, 2006

Creating shareable metadata:
WebWise 2006 Preconference

Collaborative Digitization Program

The screenshot displays the CDP website interface. At the top left is the CDP logo and name. To the right is the 'Heritage West' logo. A navigation menu includes 'cdp home page', 'about cdp', 'get cdp info', and 'contact cdp'. Below this is a secondary menu with 'Digital Toolbox', 'Teacher Toolbox', 'Collections', 'Exhibits', 'Projects', and 'Membership'. The main content area shows search results for 'Japanese internment', listing six items with their titles, creators, dates, and 'save' buttons. A left sidebar contains a search box and navigation links like 'Home', 'History', and 'View List'. A right sidebar shows 'Search Results' with a list of collections and their hit counts.

collaborative digitization program

Heritage West

cdp home page
about cdp
get cdp info
contact cdp

Digital Toolbox Teacher Toolbox Collections Exhibits Projects Membership

Search Heritage West Collection

Records: 1 - 10 Jump to: 1 11 21 31 41 51 ... 521

save all

1. **Governor's Council of Defense Collection; Granada - Amache Japanese Internment Camp Photograph Collection; World War Two Activities**
Creator: Denver Central Optimists Club Governor's Council of Defense, World War Two
Contributing Institution: Colorado State Archives
[More Information](#)

2. **68 Mess Hall workers at the Tule Lake Interment camp. Florence Nishijima Hanagata, second row, far right.**
Date Original: 20010415 1943-09-18
[More Information](#)

3. **A man sawing a piece of wood while a young girl holds onto his leg.**
Date Original: 20010415
[More Information](#)

4. **A scene at the Harvest Festival, Tule Lake.**
Creator: Francis Stewart
Date Original: 20010415
[More Information](#)

5. **A scene at the Harvest Festival, Tule Lake.**
Creator: Francis Stewart
Date Original: 20010415
[More Information](#)

6. **A woman and young child in their Sunday clothes.**
Date Original: 20010415

Search Results

You searched for:
sh: Japanese internment

529 Hits Found

CDP

Colorado Western Trails: 0

DPL Western History and Genealogy Photo Collection: 0

Heritage West : 1

Kansas-Western Trails: *Database Unavailable*

Nebraska Western Trails: 0

Utah Trails Project : 528

University of Wyoming-Western Trails: 0

Collaborative Digitization Program

The screenshot displays the CDP website interface. At the top left is the CDP logo and name. The main header features the 'Heritage West' logo and a navigation menu with links for Digital Toolbox, Teacher Toolbox, Collections, Exhibits, Projects, and Membership. A search bar is located on the left side, with a search button and an advanced search option. The main content area shows search results for 'Japanese internment', displaying 529 hits. The first result is from the Governor's Council of Defense Collection, Granada - Amache Japanese Internment Camp Photograph Collection. The record details include the creator (Denver Central Optimists Club), a description of the collection, and subject terms like 'Granada - Amache Japanese Internment Camp' and 'World War Two Activities'. Navigation controls for the search results are visible at the top and bottom of the record view.

collaborative digitization program

Heritage West

cdp home page
about cdp
get cdp info
contact cdp

Digital Toolbox Teacher Toolbox Collections Exhibits Projects Membership

Search Heritage West Collection

Record: 1 Jump to: 1 11 21 31 41 51 ... 521

← → results save

Search Results

You searched for:
sh: Japanese internment

529 Hits Found

CDP

Colorado Western Trails: 0

DPL Western History and Genealogy Photo Collection: 0

Heritage West : 1

Kansas-Western Trails: Database Unavailable

Nebraska Western Trails: 0

Utah Trails Project : 528

University of Wyoming-Western Trails: 0

Home
History
View List
Help
About Heritage West
Exit

Advanced Search

Creator: Denver Central Optimists Club Governor's Council of Defense, World War Two
Resource Identifier: <http://www.colorado.gov/dpa/doit/archives/wwcod/codhome.htm>

Description: This Photograph Collection consists of 13 photograph donated by the Denver Optimists Club documenting the living conditions of the Japanese Americans forced to live at the Amache - Granada Internment Camp. The remaining part of the collection is of photographs taken by the Federal Government and given to Governor Ralph Carr to document the living conditions, daily life, and transport of internees. The web site also incorporates printed materials stored at the CSA.

Subject: Granada - Amache Japanese Internment Camp
Governor's Council of Defense
World War Two Activities
Japanese American History

Relation: Heritage Colorado

Contributing Institution: Colorado State Archives

Record: 1 Jump to: 1 11 21 31 41 51 ... 521

← → results save

Not only stand alone portals...

- <http://www.a9.com/>



▼ Hide Column Choices

- Web
 Books
 Images
 Yellow Pages
 Reference
 Movies
 People
 Blog Search
 Wikipedia
 Your History
 Your Diary
 Your Bookmarks
 DLF MODS Portal
 More Choices... ▼

Join the [A9 Instant Reward](#) program to get 1.57% off almost everything on Amazon.com

Web Results

[Full](#) [Close](#)

Showing 1 - 10 of about 39,400

Sponsored
[Cushman](#)

Huge selection of **Cushman** items.
Shop for fun recreational vehicles.
www.MonsterMarketplace.com

[Cushman Products](#)

Shop Vehicles & Accessories Here
Shopping made simple.
www.RockTheCart.com

[CUSHMAN PAGE](#)

Karen **Cushman** was born in Chicago, **Illinois**. As a child, she learned about the public library very early. She would go alphabetically down the shelves and ...

<http://www.scils.rutgers.edu/~kvander/>cushman.html - 15k Cached [Site Info](#)[Karen Cushman](#)

Karen **Cushman** was born in Chicago, **Illinois** and lives now on Vashon Island west of Seattle, Washington. She received an MA in human behavior and one in ...

<http://www.houghtonmifflinbooks.com/catalog/authordetail.cfm?authorID=1451> -

Image Results

[Full](#) [Close](#)

Showing 1 - 17 of 17



Digital Library Federation MODS Portal

[Full](#) [Close](#)

1 - 10 of about 2,488

[Cairo, Illinois . Court House. Cairo, Ill.](#)**Title:** Cairo, **Illinois**. Court House. Cairo, Ill.

Alternative Title: County [...] House. **Author/Creator:** **Cushman**, Charles Weever, 1896-1972, photographer, pht **Type:** [...] Fire hydrants **Subject:** **Hierarchical:** United States; **Illinois**; Alexander; Cairo Junction

Identifier: 1952.14; P06185 [...] **URL:**<http://purl.dlib.indiana.edu/iudl/archives/cushman/P06185>

Rights: Copyright and reproduction rights for all [...] W. **Cushman** photographs are held by Indiana University and administered by the University [...] Indiana University Digital Library Program; Charles W. **Cushman** Photograph Collection [...]

[Cairo, Ill. Honey locust ? St. Mary's Park. Cairo, Ill.](#)

[...] tree ? (with pods) in St. Mary's Pk.

Author/Creator: **Cushman**, Charles Weever, 1896-1972, photographer, pht **Type:** [...] (Botany); Acacia **Subject:** **Hierarchical:** United States; **Illinois**;

Alexander; Cairo Junction **Identifier:** 1952.13; P06184[...] **URL:**<http://purl.dlib.indiana.edu/iudl/archives/cushman/P06184>**Rights:** Copyright and reproduction rights for all [...]

W. **Cushman** photographs are held by Indiana University and administered by the University [...] Indiana University Digital Library Program; Charles W.

Common Problems with Metadata in Aggregation

- Consistency
- Sufficiency
- Compatibility



Consistency problems

- Appearance of data
- Application of format
- Granularity of records
- Vocabulary usage

Result:

Service Provider must normalize data
(if can determine what “normal” is)

Sufficiency problems

- Too little info for understanding *what resource is*, especially outside of local context

Result:

Users don't know whether a resource is relevant or not

Compatibility problems

Information in records is

- Erroneous
- Unnecessary
- Incompatible

Result:

Interferes with harvesting and indexing

Questions?



What is Shareable Metadata?



Shareable Metadata...

- Promotes search interoperability
 - “the ability to perform a search over diverse sets of metadata records and obtain meaningful results.” (Priscilla Caplan)
- Is (at the least) human understandable outside of its local context (the field note!)
- Is useful outside of its local context
 - (Can we build something off of it?)
- Preferably is machine processable!

The Four C's (and lots of S's) of Shareable Metadata

Consistency
Coherence
Context
Conformance

Metadata standards
(and not just DC)

Vocabulary and encoding standards

Descriptive content standards
(AACR2, CCO, DACS)

Technical standards
(XML, Character encoding, etc)

Questions?



How do you create shareable metadata?



Appropriate representation of the resource through metadata

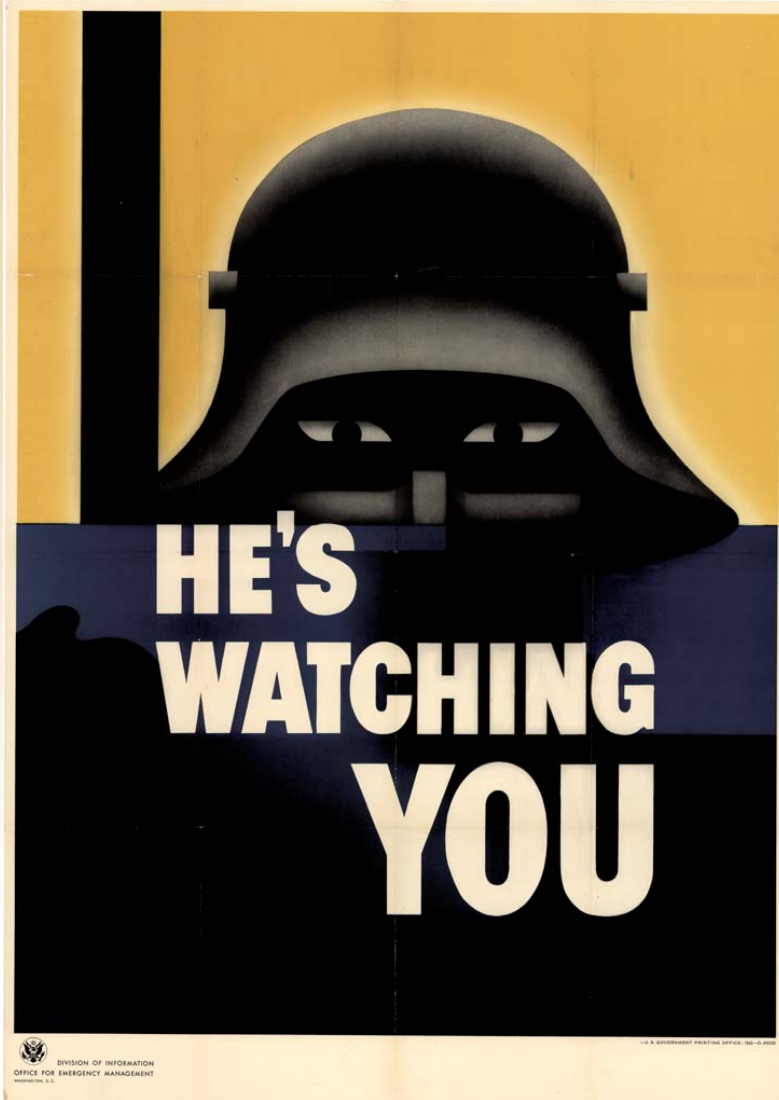
- Metadata as a *view* of the resource
- Standards promote interoperability
- Appropriate formats
- Appropriate content
- Appropriate context



Metadata as a *view* of the resource

- Metadata for the same thing is different depending on *use* and *audience*
- Affected by format, content, and context
- Harry Potter as represented by...
 - a [public library](#)
 - an [online bookstore](#)
 - a [fan site](#)





World War II Poster

**Same Object,
Different Descriptions,
Different Metadata**

[Illinois Digital Archives](#) (alt)

[University of Minnesota Libraries](#)
(alt)

[Northwestern Poster Collection](#)
(alt)

[Teaching with Digital Content](#) (alt)




Choice of vocabularies as a *view*

- Names
 - LCNAF: Michelangelo Buonarroti, 1475-1564
 - ULAN: Buonarroti, Michelangelo
- Places
 - LCSH: Jakarta (Indonesia)
 - TGN: Jakarta
- Subjects
 - LCSH: Neo-impressionism (Art)
 - AAT: Pointillism



Standards promote interoperability




http://digital.library.ucla.edu - Sheet Music OAI Service Provider Item Display - Microsoft...  Sheet Music Consortium Hosted by UCLA

You are not logged in

- Title : **Anaconda Two-Step. Souvenir Brockton Fair 1901.**
Creators : By Sylvester B. Grant.
Fisher
Publisher : Brockton, Mass.: Compliments of Old Colony Piano Co., 4 Main St.
Date : 1901
Subjects : Horses
Horse racing
Description : Respectfully Dedicated to Mrs. A.E. Rice, Boston, Mass.
ads on back cover for Old Colony Piano Co.
Source : Johns Hopkins University, Lew Sheet Music Collection, Box 028, Item 003
Collection : Johns Hopkins University Lewy Collection
Add a Note :
 - add/edit a note for this record
[\[access online \]](#) [- add to virtual collection]

Done Internet

http://digital.library.ucla.edu - Sheet Music OAI Service Provider Item Display - Microsoft...  Sheet Music Consortium Hosted by UCLA

You are not logged in

- Title : **Anaconda : two-step for piano**
Creators : Grant, Sylvester B. [composer]
Fisher, F.
Publisher : New York : Old Colony Piano Co.
Date : c1901
Subjects : Piano music
Type : Sheet music
Description : For piano
At head of title: Souvenir Brockton Fair 1901. Respectfully dedicated to Mrs. A. E. Rice, Boston, Mass
Illustration by F. Fisher
Includes publisher's advertising
Source : Lilly Library (Indiana University, Bloomington) Starr Sheet Music Collection.
Call number: M1 .S8 II Animals Horses
Relation : [IsPartOf http://www.indiana.edu/~liblilly/starr.shtml](http://www.indiana.edu/~liblilly/starr.shtml)
Rights : <http://purl.dlib.indiana.edu/iudl/lilly/starr/rights>
Collection : Indiana University
Add a Note :

Done Internet

Types of standards to consider

- Data structure standards
 - “Buckets” of information (fields)
 - Both label and scope important
 - e.g., MARC, MODS, Dublin Core
- Data content standards
 - Selection, structure and formatting of value within a field
 - e.g., AACR2, DACS, CCO



Appropriate formats

- Depends upon:
 - nature of materials
 - nature of holding institution
 - depth of description needed
 - community practice
 - need for distinction between versions
 - need for repeating elements
- MARC, MODS, Dublin Core, EAD, and TEI may all be appropriate for a single item

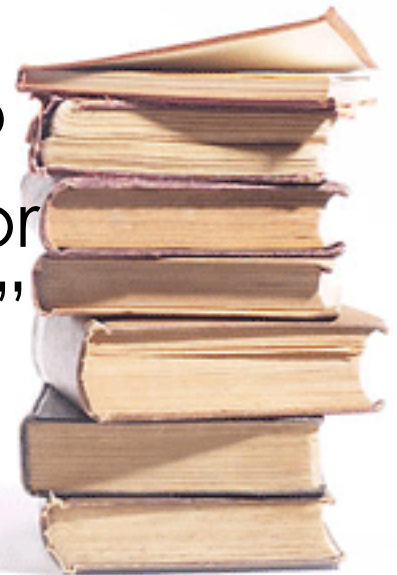


Break



Appropriate content

- Choose appropriate vocabularies
- Choose appropriate granularity
- Make it obvious what to display
- Exclude unnecessary “filler”
- Make it clear what links point to
- Handout has some guidance for “classes of metadata elements”



Common content mistakes

- No indication of vocabulary used - [Example](#)
- Shared record for a single page in a book
- Link goes to search interface rather than item being described
- “Unknown” or “N/A” in metadata record



Appropriate context

- Thinking about shareability
 - Include information not used locally
 - Exclude information *only* used locally
- Current safe assumptions
 - Users discover material through shared record
 - User then delivered to your environment for full context
- Context driven by intended use

Common context mistakes

- Leaving out information that applies to an entire collection (“On a horse”)
- Location information lacking parent institution
- Geographic information lacking higher-level jurisdiction
- Inclusion of administrative metadata



What are you describing?

Physical object w/
links to the digital?
(Digital surrogate
approach)

Both digital and physical
in the same flat record?

Content but
not the carrier?

Both digital and physical
in the same record but in
a hierarchy?

A record for the
analog and the
digital item with
linkage?
(one to one principle)



Questions?



Communication

- Metadata providers can learn from aggregators
- Aggregators can learn from metadata providers
- Providing supplemental information to make records more intelligible



Metadata providers can learn from aggregators

- Crosswalking methods and rules
- Information to include and exclude
- Choice of standards
 - Metadata formats
 - Vocabularies
- Where to spend normalization effort
- Use can drive future priorities

[Example from the CIC Portal... \(alt\)](#)

Aggregators can learn from metadata providers

- Where to spend normalization effort
- Context, importance, and primary uses of resources shared
- Variety of resource types and descriptive practices encountered
- Local, robust metadata formats



Providing supplemental information to make records more intelligible

- Method for creating shared records
- Vocabularies and content standards used in shared records
- Record updating practices & schedules
- Accrual practices and schedules
- Existence of analytical or supplementary materials
- Provenance of materials



Before you share...

- Check your metadata
 - Appropriate view?
 - Consistent?
 - Context provided?
 - Does the aggregator have what they need?
 - Documented?

Can a stranger tell you what the record describes?



Questions?

