



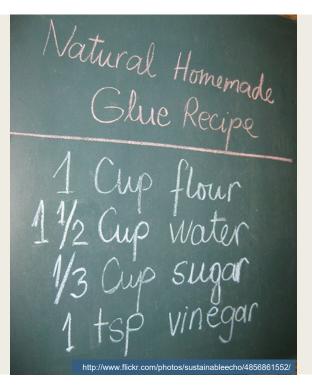
Why Metadata?

"...because metadata is the glue that binds it all together."

Nelson Mattos, IBM

"Everything should be made as simple as possible, but not one bit simpler."

Albert Einstein, attributed







OBJECT NAME measuring cup

- ID NUMBER 2001.0253.0284
- CATALOG NUMBER 2001.0253.0284
- ACCESSION NUMBER 2001.0253



OBJECT NAME measuring cup

- PHYSICAL DESCRIPTION glass (overall material)
- MEASUREMENTS overall: 9 cm x 13 cm; 3 9/16 in x 5 1/8 in
- SUBJECT Measuring & Mapping
- SEE MORE ITEMS IN Home and Community Life: Occupations



OBJECT NAME measuring cup

• MAKER Corning Glass Works

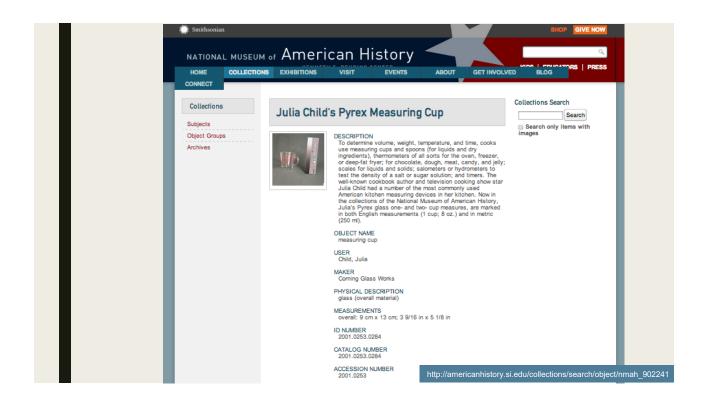






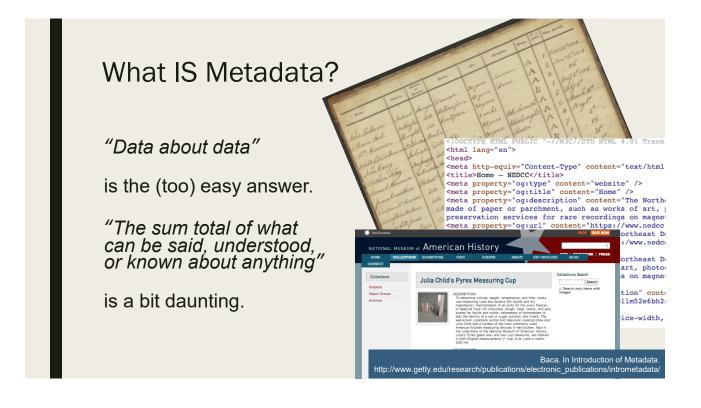
OBJECT NAME measuring cup

- MAKER Corning Glass Works
- USER Child, Julia









Metadata: Many Sources, Many Ways

"any...resource may have multiple metadata records reflecting differing purposes and perspectives...

...be created with **embedded metadata** supplied by the author, may also be **associated** with a **separated record...**

... may have yet another version of metadata created by a third party such as a library..."

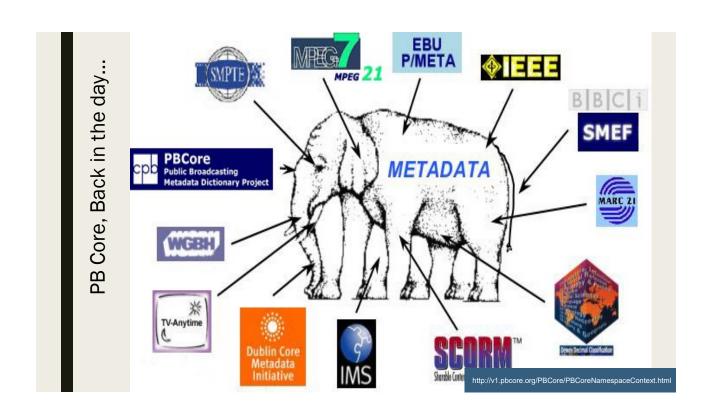
Erik Duval, 2004

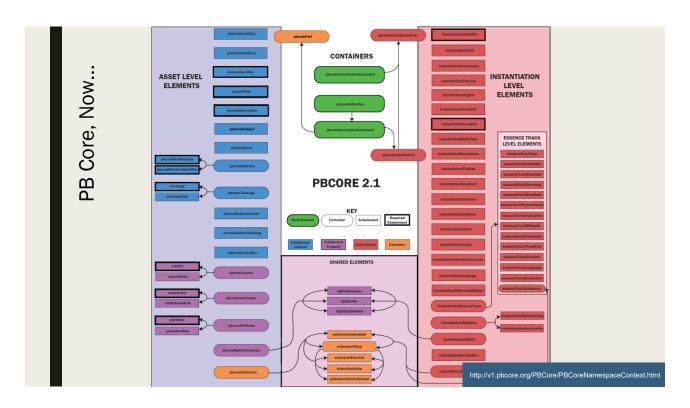
Metadata supports...

- ✓ Increased accessibility
- ✓ Retention of context
- ✓ Expanding use
- ✓ Learning experience
- ✓ Rights management
- ✓ Preservation

- ✓ System development and enhancement
- ✓ System improvements and economics
- √ Versioning
- ✓ Legal issues

Setting the Stage. A. Gilliland. In Introduction to Metadata. ed. Murtha Baca URL:http://www.getty.edu/research/publications/electronic_publications/intrometadata/setting.html



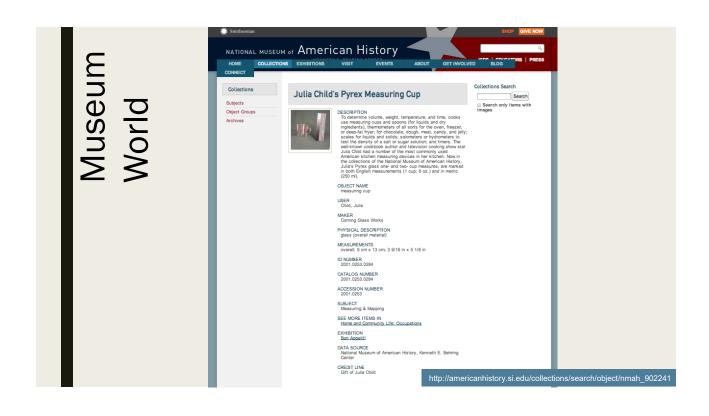




"Basic" Metadata Administrative • managing and administering Descriptive • identify and describe Technical • how a system functions or behaves Preservation • level and type of use Structural • mark-up languages • reuse and versioning • rights management

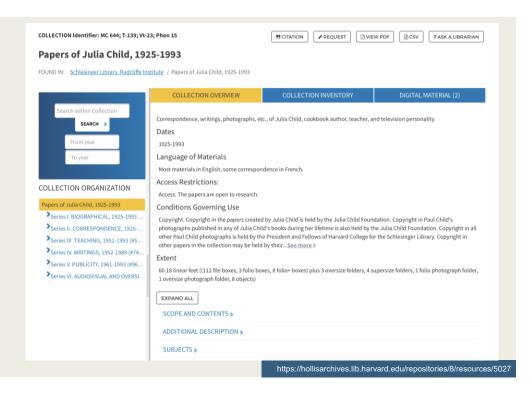
Setting the Stage. A. Gilliland. In Introduction to Metadata. ed.Murtha Baca URL:http://www.getty.edu/research/publications/electronic_publications/intrometadata/setting.html

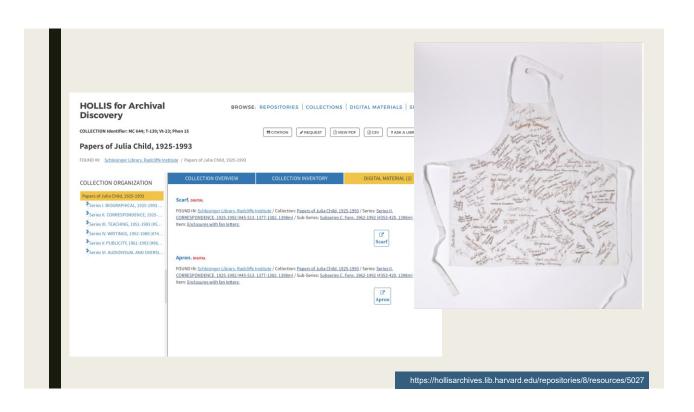


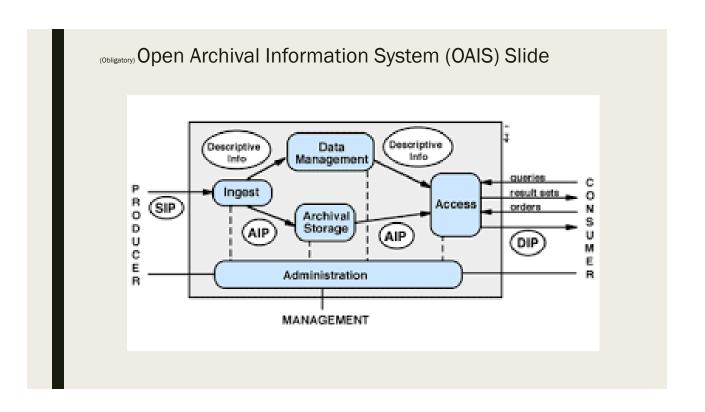


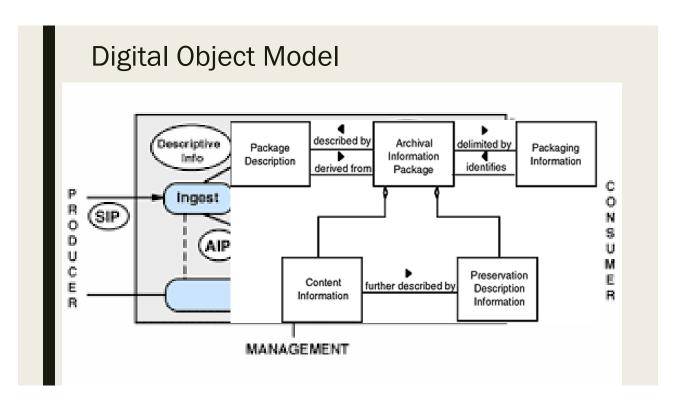


Archives World









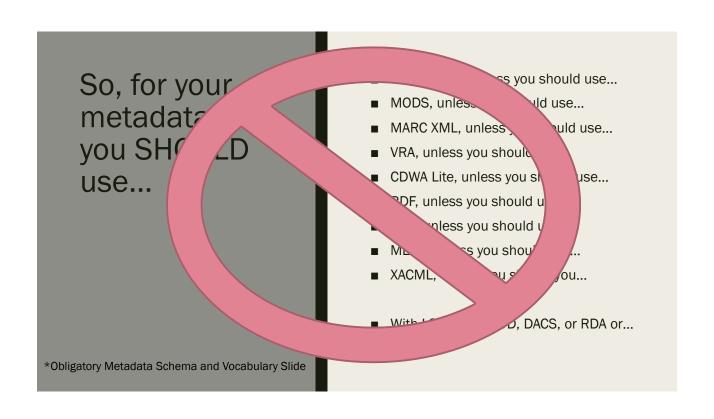
So, for YOUR metadata needs, you SHOULD use...

■ Dublin Core, unless you should use...

- MODS, unless you should use...
- MARC XML, unless you should use...
- VRA, unless you should use...
- CDWA Lite, unless you should use...
- RDF, unless you should use...
- EAD, unless you should use...
- METS, unless you should use...
- XACML, unless you should you...

■ With LSCH, AAT, LOD, DACS, or RDA or...

*Obligatory Metadata Schema and Vocabulary Slide

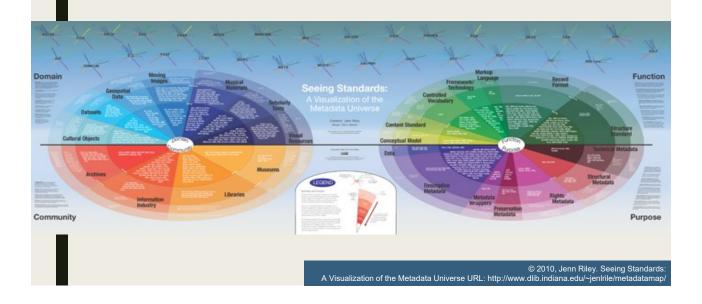


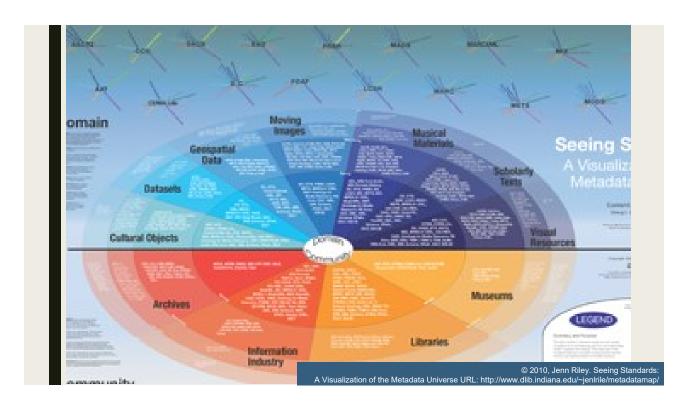
So, for YOUR metadata needs, you SHOULD use...

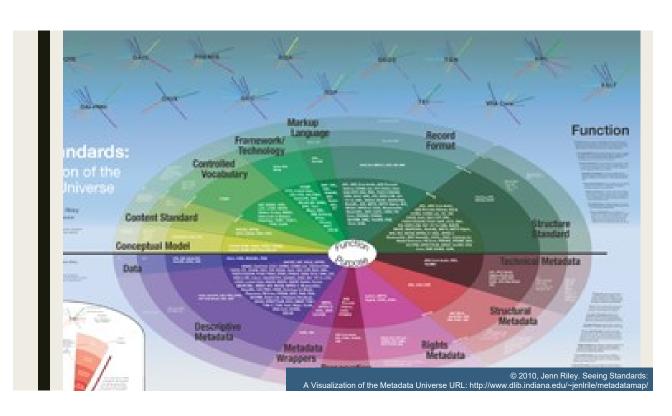
*Obligatory Metadata Schema and Vocabulary Slide

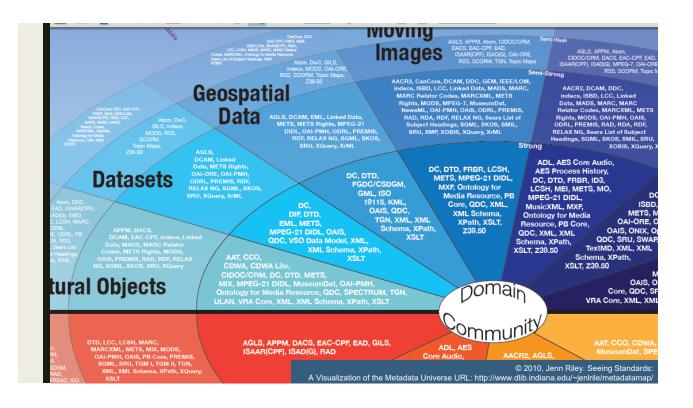
- Dublin Core, unless you should use...
- MODS, unless you should use...
- MARC XML, unless you should use...
- VRA, unless you should use...
- CDWA Lite, unless you should use...
- RDF, unless you should use...
- EAD, unless you should use...
- METS, unless you should use...
- XACML, unless you should you...
- With LSCH, AAT, LOD, DACS, or RDA or...

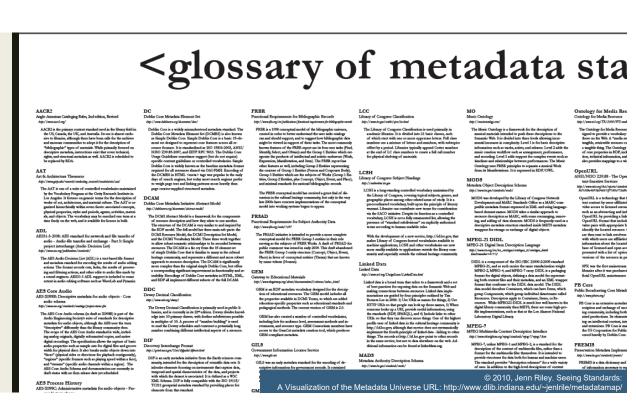
There are A LOT of metadata possibilities...











http://gort.ucsd.edu/escowles/vracore4/examples/

A View of VRA Core Corinthian Black-figure neck amphora WORK [id: w_00000014, refid: 18313, source: History of Art Visual Resources Collection, UCB1 agent = Walters Painter (Greek, act. c. 625-600 BCE) date = c. 625-600 BCE description = Two handled neck-amphora with five animal friezes plus neck decoration from Rhodes location = London: British Museum (1914.10-30.1) material = painted terracotta measurements = 35 cm (H) relation = Full view, side A [type: imagels, relids: i 00000016] source = Amyx, Darrell A., Corinthian vase-painting of the Archaic period, Berkeley: UC Press, 1988 stylePeriod = Early Corinthian, Animal Style subject = animals; birds; friezes (ornamental bands); zoophori

technique = painting

textref = Amyx CVP 144.2 (NC 770)

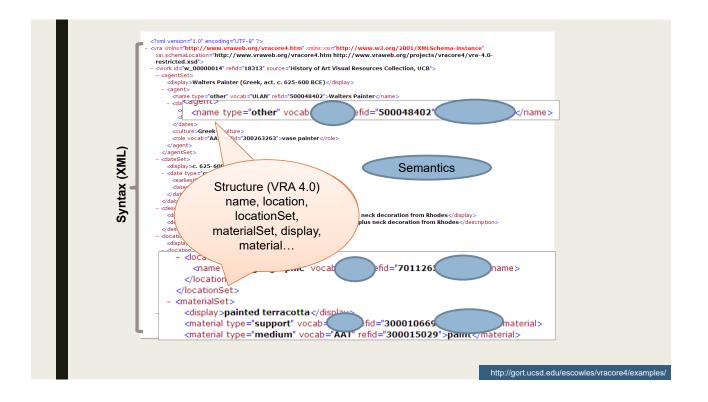
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xsisschemaLocation=*http://www.vraweb.org/vracore4.htm http://www.vraweb.org/projects/vracore4/vra-4.0-
restricted.xsd*>
- cwork id="w_00000014" refid=18313" source="History of Art Visual Resources Collection, UCB">
                                                     <agentSet
                                                                  <display>Walters Painter (Greek, act. c. 625-600 BCE)</display>
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                                                                 culture>Greek/culture>
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</agent>
Syntax (XML)
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                                                           </dateSet>
                                                         cdescreptionSet>
cdescriptionSet>
cdsernption=Two handled neck-amphora with five animal friezes plus neck decoration from Rhodes</display>
cdsernption=Two handled neck-amphora with five animal friezes plus neck decoration from Rhodes</description>
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cdsplay>painted terracotta </display>
cmaterial type="support" vocab="AAT" refid="300010669">terracotta </material>
cmaterial type="medium" vocab="AAT" refid="300015029">paint </material>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           http://gort.ucsd.edu/escowles/vracore4/examples/
```

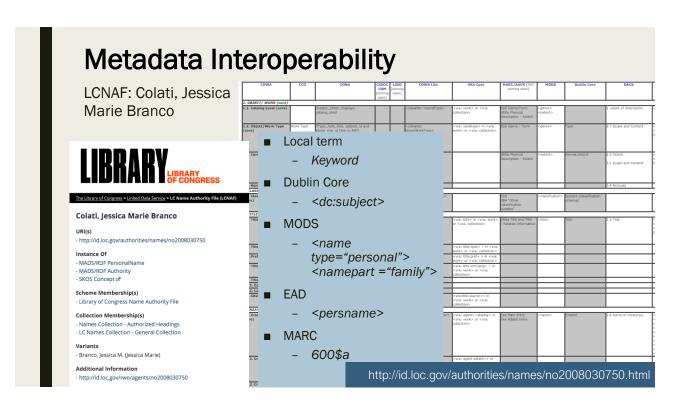
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</ra>

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                                     estitited ASO 200000014" refid="18313" source="History of Art Visual Resources Collection, UCB">
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                                      - <agent>
                                         าลme type='other' vocab="ULAN" refid='500048402'>Walters Painter</name>
- ๙da ๊ฉบูษากะ »
                                                            <name type="other" vocab="ULAN" refid="500048402">Walters Painter
                                               <culture>Greek
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Syntax (XML)
                                          <display>c. 625-60
                                      - <date type:
                                                                                  Structure (VRA 4.0)
                                                                                            name, location,
                                                                                                   locationSet,
                                                                                                                                                                                                           neck decoration from Rhodes </displays
                                                                                materialSet, display,
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                                                                                                      material...
                                                                                                                                                 vocab="TGN" refid="7011265">Rhodes</name>
                                                                <name
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    <materialSet>

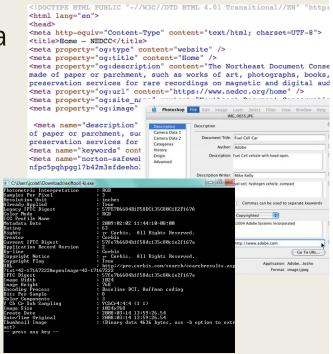
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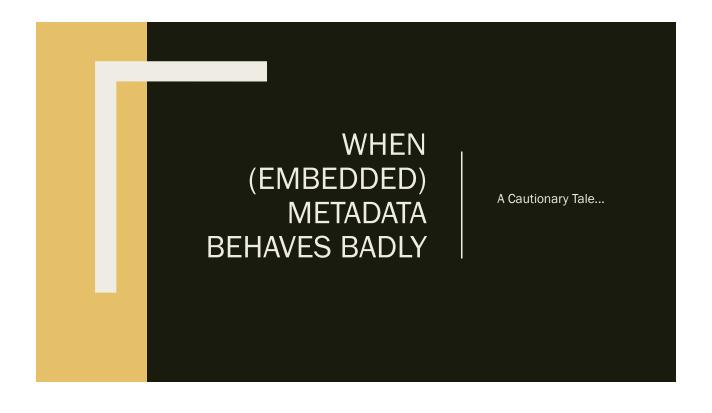


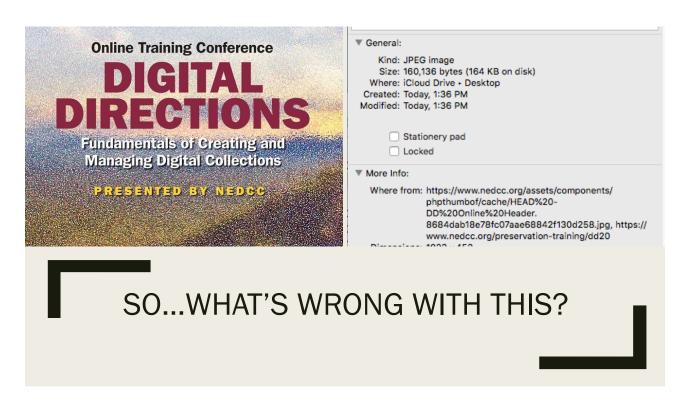


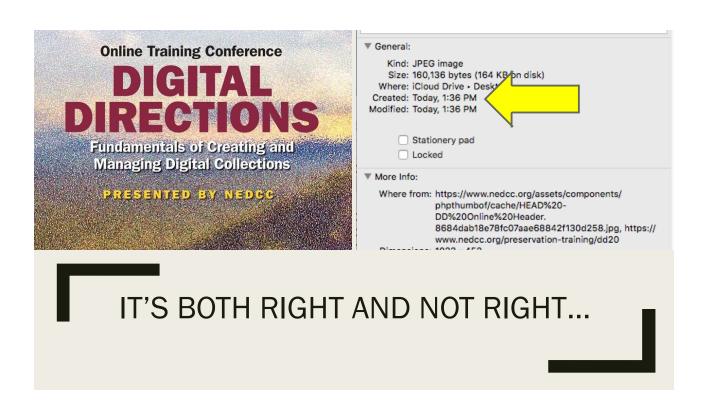
Embedded Metadata

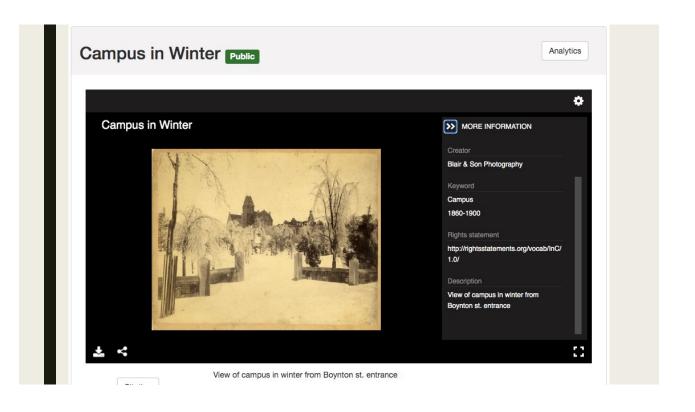
- Email Headers
 - Timestamps, audit trails, encoding information
- Website Headers
 - "Meta tags"
- XML Headers
 - TEI, EAD, MEI "bibliographic" information
- Image and Media files
 - Descriptive, technical, and structural information
- Digital files
 - Rights, access, usage Information

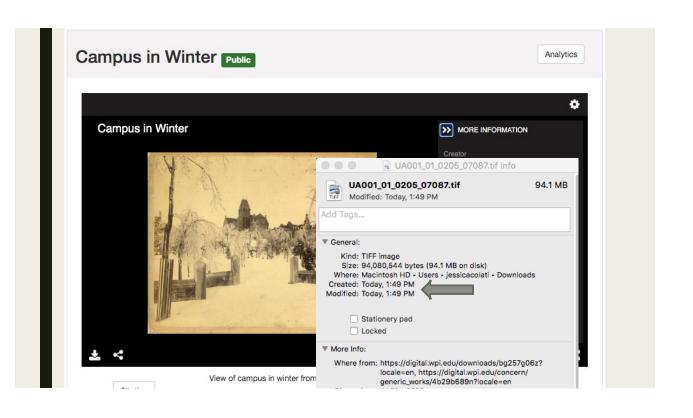


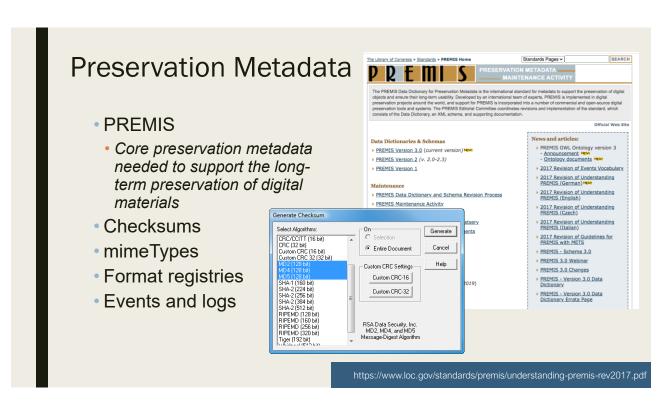


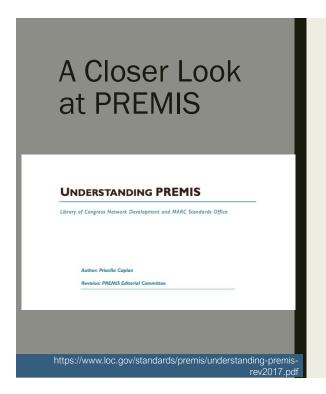


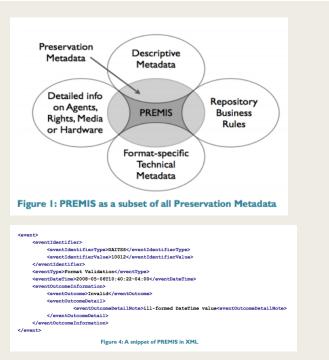










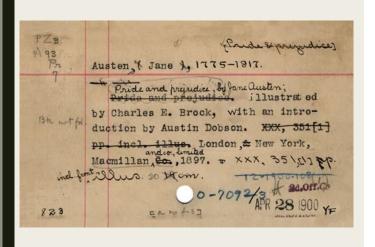




Two Truths of Metadata

Truth 1: Your metadata will very likely not be perfect. Therefore - and this is hard - try not to *need* to be perfect.

Truth 2: Plan for the *foreseeable future*. Therefore, don't aim for forever.



More Metadata Truths

Metadata...

- is never "free"
- is not "one-size-fits all"
- relates to more than the description of an object
- can come from a variety of sources
- continues to accrue and evolve over time
- has its own metadata

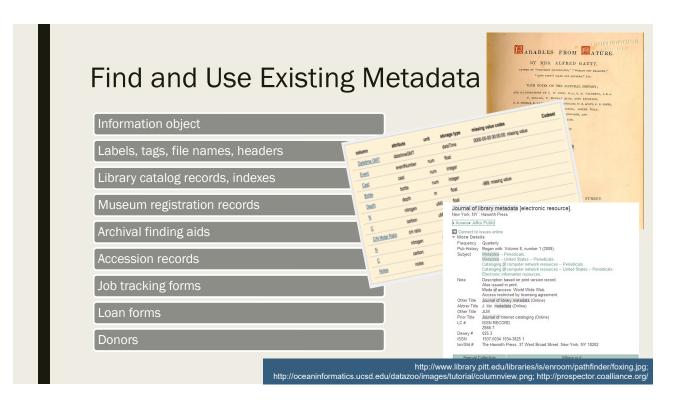
Setting the Stage. A. Gilliland. In Introduction to Metadata. ed.Murtha Baca URL:http://www.getty.edu/research/publications/electronic_publications/intrometadata/setting.html



Start by

- Examining your information object(s)
- Figuring out what information you need, want, and hope to capture
- Find out what information you already have



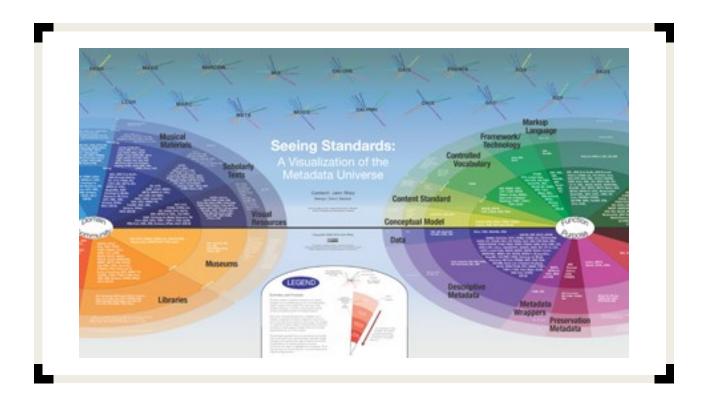


Functional Requirements of YOUR Metadata

What metadata standards, schema, content, data, etc., do you think will work best?

Consider needs of the creator*, manager*, and end-user*

- Designated community*
- Management strategies and systems
- Discovery experience
- Access and Presentation preferences
- Use/Reuse of object

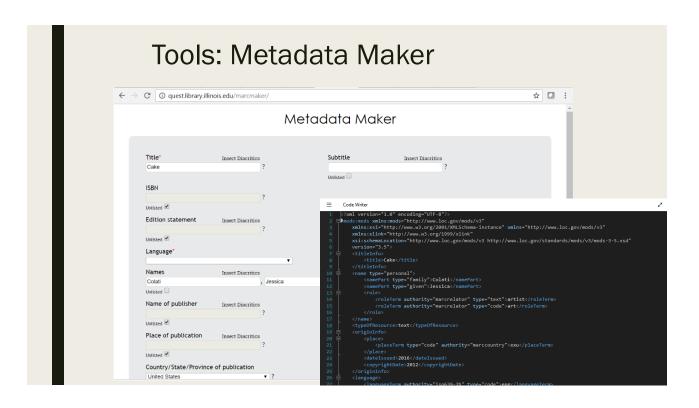


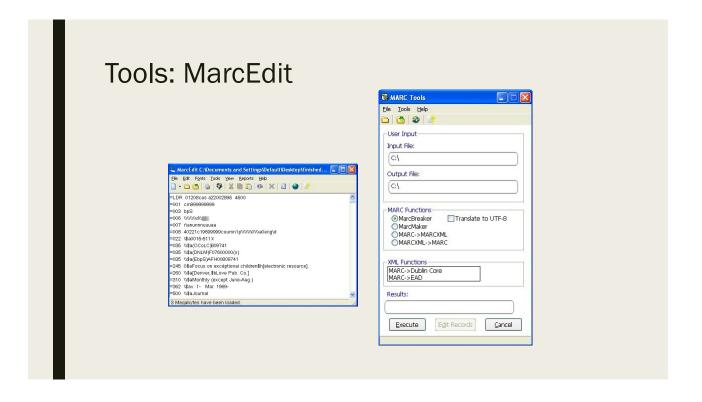


BE META ORGANIZED

Metadata Creation Tools

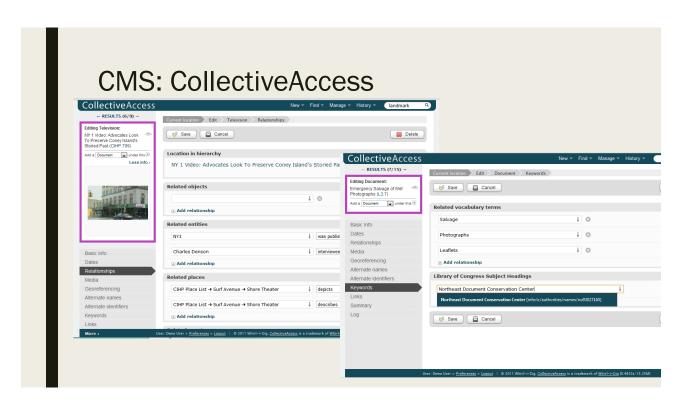
- Files
- Spreadsheets
- Databases
- Content Management Systems
- Digital Asset Managements Systems
- Collection Managements Systems
- Vendor Services

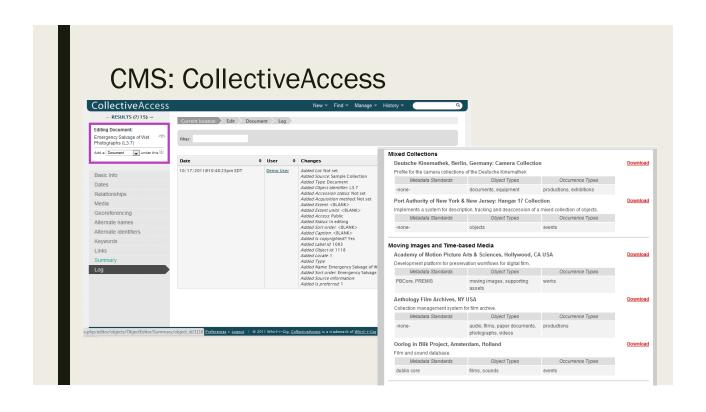




Management Strategies

- Files
- Spreadsheets
- Databases
- Content Management Systems
- Digital Asset Managements Systems
- Collection Managements Systems
- Vendor Systems







Have a Metadata Focus

- Purpose and Value
- Original vs. Representation vs. Surrogate
- Work/Object vs. Container/Carrier
- Document-like vs. Non-Document-like
- · Collection-level vs. Item-level
- "Of"-ness vs. "About"-ness



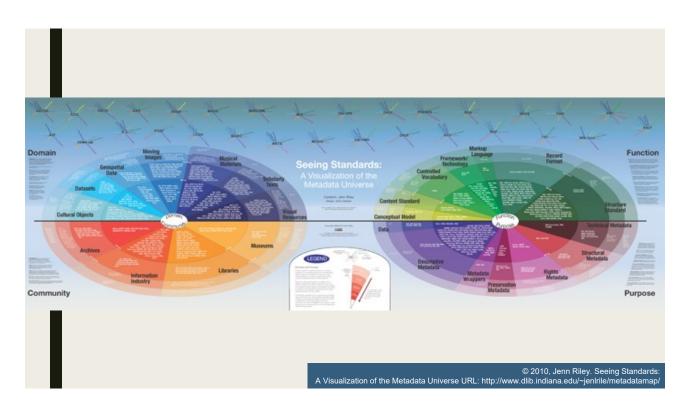
Quality Indicators (a.k.a."Chowdah Expectations")

Metadata Quality Considerations

- Completeness
- Correctness
- Consistency

© Anne Sauer, 2014.

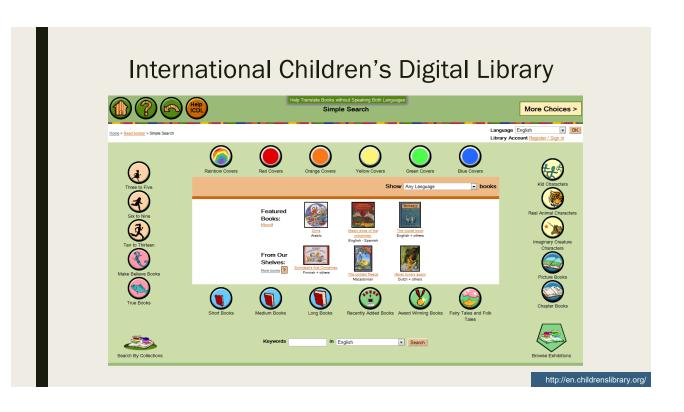




Good Metadata...

"is appropriate to the materials in the collection, users of the collection, and current and potential future uses of the collection"







International Children's Digital Library

Metadata specification

I. Language

A. Metadata Language (Requ List the English name of out this form. This is the translation is required be language you are using so necessary.

B. Book Language(s)
Enter the language(s) in book is written in two or language first, followed b book only has a few word language, do not list the l include a reader note.

II. Title Information

A. Display Title (Required) Enter the book's title exa The default for the source the book. If the title is no the other source. If the but languages are shown in the in all languages with an syou translate a title, if partransliterated because it it. part can be translated, pt

- For the title, informa the following sources
 - a. Title Page
 - b. Cover
 - c. Spine
 - d. Other Source in t

III. Creator(s)

Enter the creators' names in the order in which they are listed on the title page in the book. If the creator is not a per rather an organization or s organization in the First El

B. Subunits of Book Enter subunits of

creators as are credited wit person associated with the illustrator, translator, etc.) Name, Other Version (if av

A. Role(s) (Required) Please select from our author, illustrator, edit roles a creator perform information, write [no

B. Display Name (Required Please list the creators the book. List any degr end of the name like Jc or titles to the sorted n information, write [no

C. Sorted Name (Required

 First Element (Requ
 (Or primary part of name, or surname is a organization pl [none] with bracke not add degrees or is no creator inform this field.

2. Second Element (R) (Given name, or fir add degrees or title no creator informa this field.

B. Subunits of Book (Optional)
Enter subunits of the content of the book such as short
story titles, chapters, poems, etc. from the the table of
contents or subunit heading. Please had no more than to
units. The subunits will give reader:
understanding of what is inside you
categories it better. Please not each

categorize it better. Please put each line.

- Example
 - Book: Mother Goose
 - Subunits: 1. Humpty Dumpty
 - 2. Ring O' Roses

C. Reader Notes (Optional)
Reader notes should provide additionight be of interest but are not four Please keep a child audience in min
3-

- Example
 - The letters I and J were often when this book was written so the letter I.
- D. Subjects and Keywords (Recommen-We ask contributors for their own k can gain more information from the think the book is about and expand needed. However, we will use their i from the abstract to fit their inform-subject thesaurus.
 - Focus on what categories would educator find a book easily.

 Action Adventure
 Action adventure book stories) contain fast me confronting and, ultim challenge. Action adve-like the outdoors, spor-

2. Classics

Classics books have sto continue to be recomm classics like Charlotte's

Concept Books These books aim to tea readers such as numbe with moral lessons mo folk tales.

Folk and Fairy Tales Folk tales usually come

(handed down by word subunit of folk tales an beings with magical po lesson and generally er evil.

5. Funny / Humorous These stories are often

BIBLIOGRAPHIC CONVENTIONS

ICDL uses bibliographic standards commonly used by librarians from around the world.

Our specifications for this form are based on the Qualified Dublin Core. ICDL chose the Dublin Core system to collect metadata information on books because of its international background, its ability to be understood by non-specialists, and the possibilities to extend its basic "elements" to meet our specific needs.

Learn general information about Dublin

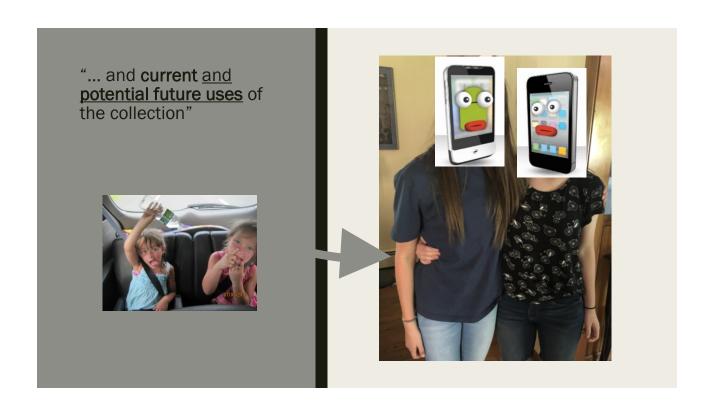
Core at the Dublin Core Web site and/or explanation of the basic elements in many languages at <u>Dublin Core</u> <u>Translations</u>. For those familiar with Dublin Core, you will notice we have moved many elements of the Dublin Core around.

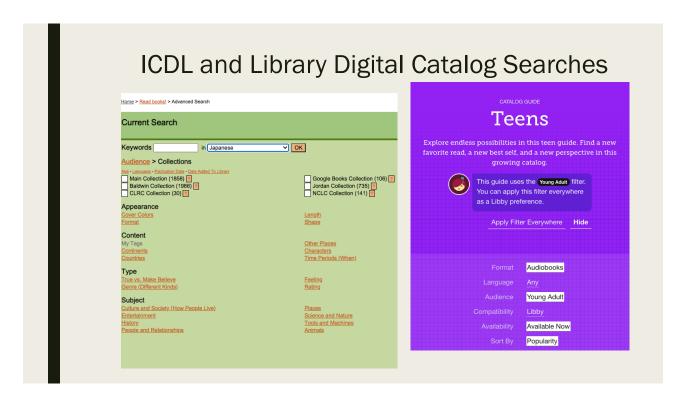
General Bibliog http://en.childrenslibrary.org/

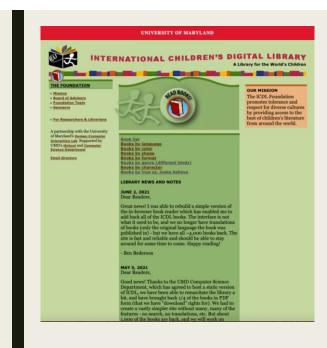
"... and current and potential future uses of the collection"

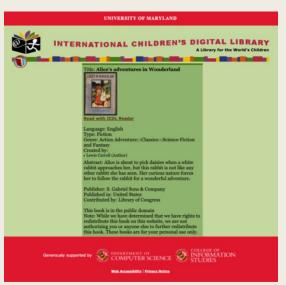










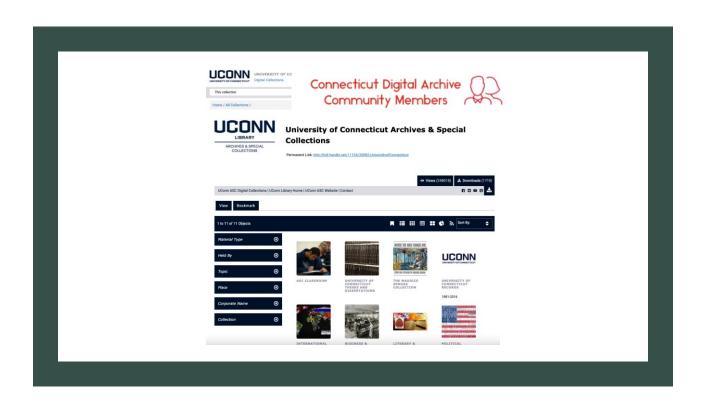


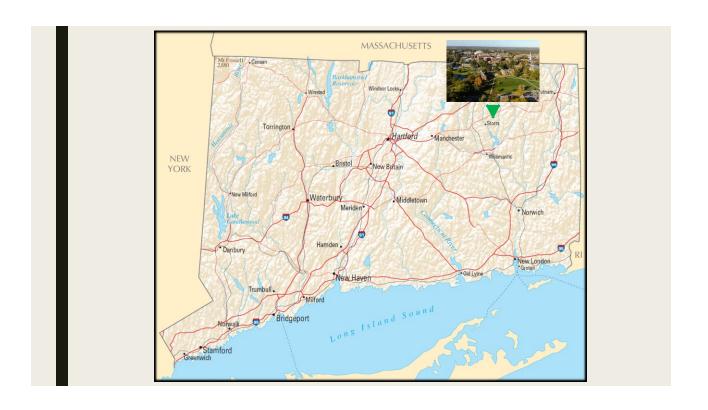
BE A PART OF THE META COMMUNITY

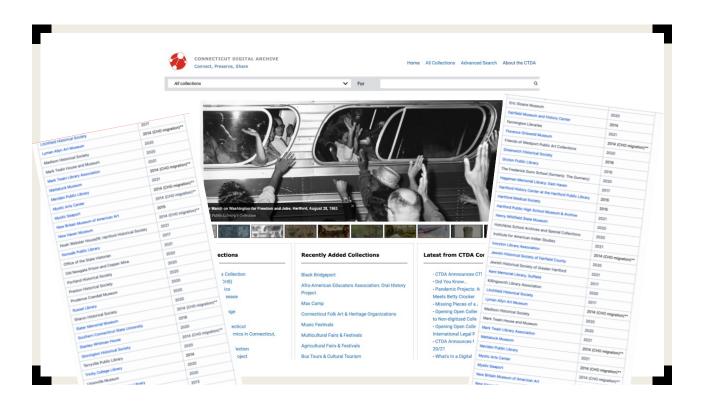




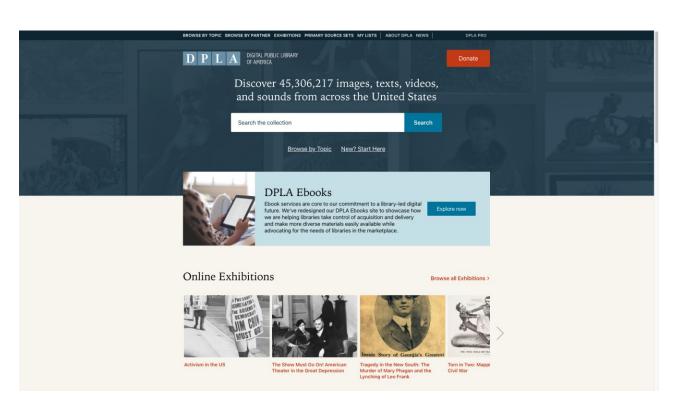
NO GOOD METADATA IS AN ISLAND...

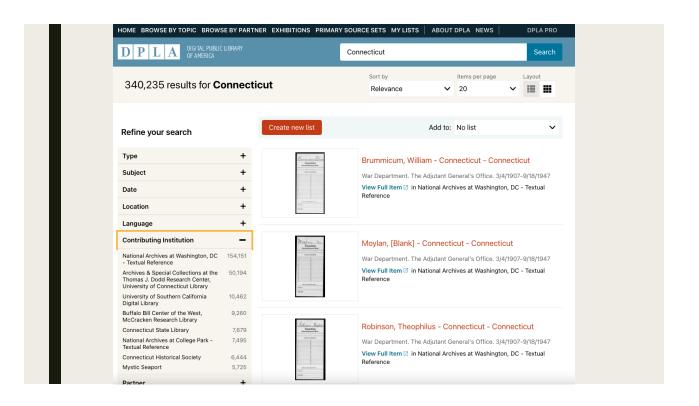


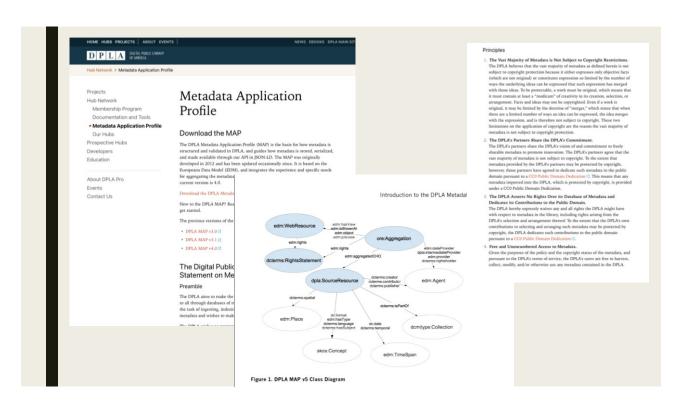




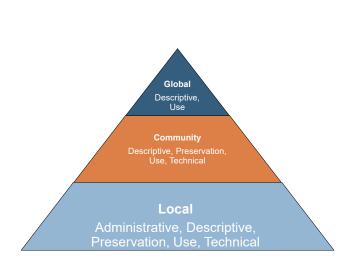








BE META GENEROUS



How Much Do You Share?

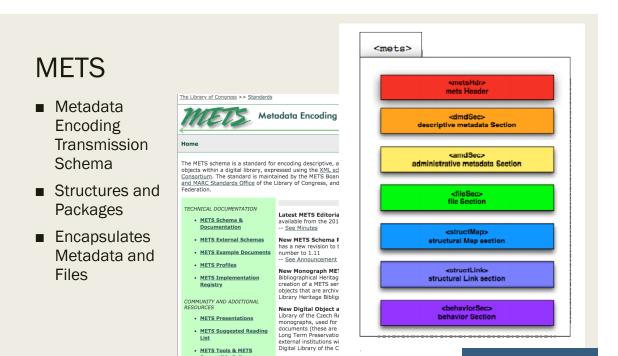
"At its most basic level shareable metadata should be human understandable." [Shreeves]

Machine "process-able"

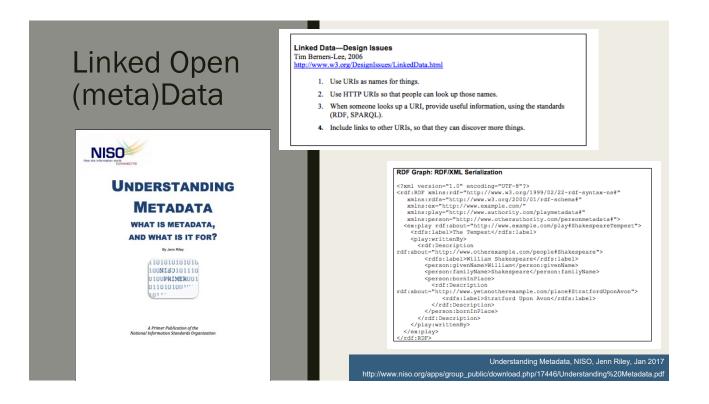
Useful AND usable

Interoperable AND reusable

Support search interoperability

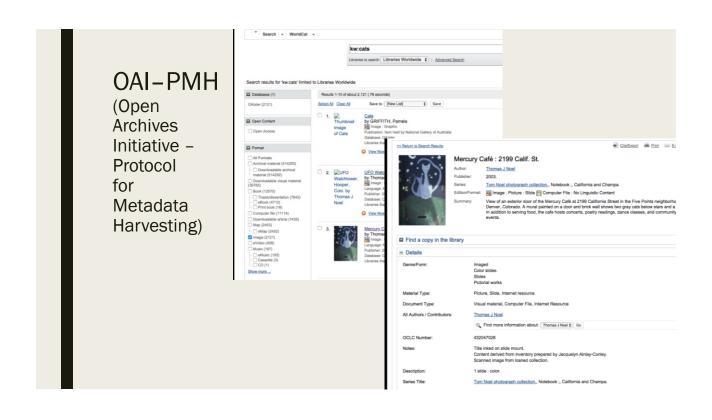


New Version of Rosetta METS Profile: Ex Libris has registered a version of their Rosetta METS Profile. This version supersedes the previous version. This profile describes a Rosetta Intellectual Entity

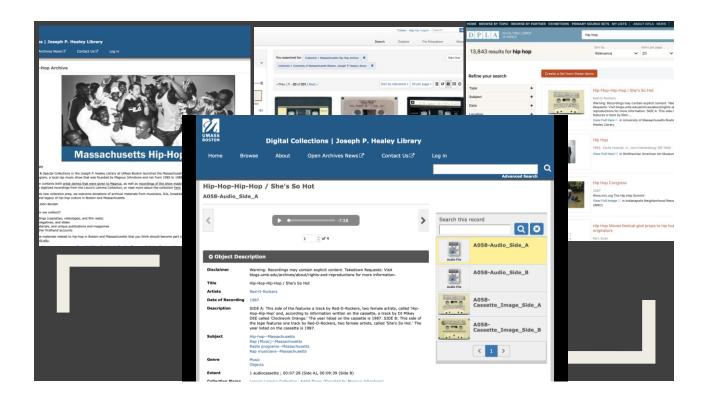


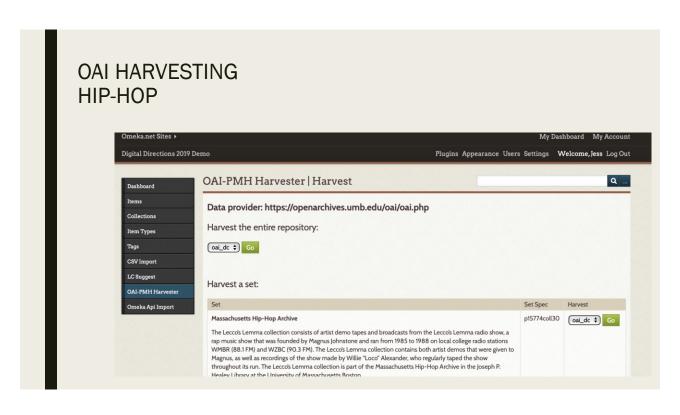
METS Tools & METS
 Compatible Software

METS Events









Be on the Right(s) Side of Access and Use

Determine your rights and levels of risk tolerance and communicate them

...and please listen to the Greg Crams working in this space!

