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Metadata Made Simple

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<record>

<title> Metadata Made Simple </title>

<creator> Eleta Exline </creator>

<date>May 21, 2008</date>

</record>



UNIVERSITY *of* NEW HAMPSHIRE

Definitions: NISO

- **Structured** information that **describes**, explains, locates, or otherwise makes it easier to retrieve, use, or **manage** an information resource.

(NISO, 2004. *Understanding Metadata*. Bethesda, MD: NISO Press.
[http://www.niso.org/standards/resources/
UnderstandingMetadata.pdf](http://www.niso.org/standards/resources/UnderstandingMetadata.pdf))

Definitions: ALA

- **Structured**, encoded data that **describe** characteristics of information-bearing entities to aid in the identification, discovery, assessment, and **management** of the described entities.

(Source: CC:DA Task Force on Metadata:

Final Report (CC:DA/TF/Metadata/5), June 16, 2000

<http://www.libraries.psu.edu/tas/jca/ccda/tf-meta6.html>)

A Working Definition

- **Structured** data that **describes** some aspect of a resource so that it can be **managed**.

Metadata Functions

- Discovery – how do I find it?
- Identification - what is it, exactly?
- Organization – how's it arranged?
- Preservation – what do I need to know to keep it viable?
- Interoperability – can it “play well” with other similar things?

Categories

1. Descriptive - describes a resource in order to enable identification and discovery.
2. Administrative – provides information about a resource that supports its management.
3. Structural – indicates how the parts of a resource are related, organized, or sequenced.

Parrot Metadata:



"I'm Mr. Yosuke Nakamura," the bird told the veterinarian. The parrot also provided his full home address, down to the street number.

- Associated Press, May 21, 2008.

Candy Metadata:



Candy Metadata:



Categories

Descriptive – describes a resources in order to enable identification and discovery.

MARC

Dublin Core (CD) [Example 1](#), [Example 2](#)

Encoded Archival Description (EAD) [Example](#)

Metadata Object Description Scheme (MODS)

VRA Core

Categories

Administrative - provides information about a resources that supports its management.

- Rights

- Preservation

Preservation Metadata: Implementation Strategies
(PREMIS)

Metadata for Images in XML (MIX)

Categories

Structural - indicates how the parts of a resource are related, organized, or sequenced.

Metadata Encoding Transmission Standard (METS)

[Example 1](#)

Encoded Archival Description (EAD)

Metadata Standards

1. Scheme
2. Syntax
3. Content Values
4. Content Rules

1. Schemes

Specify names and definitions of elements, along with their possible attributes or qualifiers.

Indicate which elements are required or optional.

Sometimes include formatting rules and requirements or recommendations for the use of controlled vocabularies.

1. Schemes

From VRA Core 3.0

CREATOR

Qualifiers

Creator.Role

Creator.Attribution

Creator.Personal name

Creator.Corporate name

Description: The names, appellations, or other identifiers assigned to an individual, group, corporate body, or other entity that has contributed to the design, creation, production, manufacture, or alteration of the work or image.

Data Values (controlled): recommend ULAN and AAAF (LC authority files).

1. Schemes

MODS

<http://www.loc.gov/standards/mods/>

MARC XML

<http://www.loc.gov/marcxml>

DC

<http://dublincore.org/>

TEI

<http://www.tei-c.org/>

MIX

<http://www.loc.gov/standards/mix/>

2. Syntax

The formal structure in which the scheme is expressed.

MARC

XML

MARC

=100 1\\$\aFrost, Robert,\$d1874-1963.
=245 10\$aNorth of Boston /\$cby Robert Frost.
=250 \a1st ed.
=260 \aLondon :\$bD. Nutt,\$c1914.
=300 \a143 p. ;\$c20 cm.
=910 \a4397967 lb 851212

MARC XML

```
<marc:datafield tag="100" ind1="1" ind2=" " >  
<marc:subfield code="a">Frost, Robert,</marc:subfield>  
<marc:subfield code="d">1874-1963.</marc:subfield>  
</marc:datafield>  
<marc:datafield tag="245" ind1="1" ind2="0">  
<marc:subfield code="a">North of Boston /</  
  marc:subfield><  
marc:subfield code="c">by Robert Frost.</marc:subfield>  
</marc:datafield>  
<marc:datafield tag="250" ind1=" " ind2=" " >  
<marc:subfield code="a">1st ed.</marc:subfield>  
</marc:datafield>  
<marc:datafield tag="260" ind1=" " ind2=" " >  
<marc:subfield code="a">London :</marc:subfield>  
<marc:subfield code="b">D. Nutt,</marc:subfield>  
<marc:subfield code="c">1914.</marc:subfield>  
</marc:datafield>
```

3. Content Rules

Anglo-American Cataloguing Rules (AACR2)

Archival Moving Image Materials: a Cataloging Manual (AMIM)

Archives, Personal Papers, and Manuscripts : a Cataloging Manual for Archival Repositories, Historical Societies, and Manuscript Libraries (APPM)

Describing Archives: A Content Standard (DACS)

Categories for the Description of Works of ART (CDWA)

http://www.getty.edu/research/conducting_research/standards/cdwa/

4. Content Values: Standardized Vocabularies

DCMI Type Vocabulary

<http://dublincore.org/documents/dcmi-type-vocabulary/>

[MIME] Internet Media Types

<http://www.isi.edu/in-notes/iana/assignments/media-types/media-types>

ISO 639 - Codes for the representation of names of languages.

<http://www.oasis-open.org/cover/iso639a.html>

4. Content Values: Thesauri & Classification Schemes

Thesaurus for Graphic Materials I: Subject Terms (TGM I)

http://www.loc.gov/lexico/servlet/lexico?usr=pub-375:0&op=frames&db=TGM_I

Art and Architecture Thesaurus (AAT)

<http://www.getty.edu/research/tools/vocabulary/aat/index.html>

Library of Congress Subject Headings (LCSH)

<http://www.loc.gov/cds/classweb.html>

Library of Congress Classification (LCC)

<http://www.loc.gov/catdir/cpsolcco/>

4. Content Values: Authority lists

The Union List of Artist Names (ULAN)

<http://www.getty.edu/research/tools/vocabulary/ulan/>

The Getty Thesaurus of Geographic Names (TGN)

<http://www.getty.edu/research/tools/vocabulary/tgn/>

LC Name Authority file = LC/NACO Authority File (LC/NAF)

<http://authorities.loc.gov/>

Crosswalks

Function as maps from one scheme to another:

	Dublin Core	EAD	MARC 21
Title Element	Title	<titleproper>	245 00\$a (Title Statement/Title proper)
Author Element	Creator	<author>	700 1#\$a (Added Entry--Personal Name) (with \$e=author) 720\$a (Added Entry--Uncontrolled Name/Name) (with \$e=author)
Date Created Element	Date.Created	<unitdate>	260 ##\$c (Date of publication, distribution, etc.)

(NISO, 2004. *Understanding Metadata*. Bethesda, MD: NISO Press.

<http://www.niso.org/standards/resources/UnderstandingMetadata.pdf>)


Dublin Core

```
<record xmlns:xsi="http://www.w3.org/
  2001/XMLSchema-instance"
  xmlns:dc="http://purl.org/dc/elements/
  1.1/" xmlns:dcterms="http://purl.org/dc/
  terms/">
  <dc:title>North of Boston </dc:title>
  <dc:creator>Frost, Robert,1874-1963.</
  dc:creator>
  <dc:type>text</dc:type>
  <dc:publisher>London : D. Nutt,</
  dc:publisher>
  <dc:date>1914.</dc:date>
  <dc:language>eng</dc:language>
</record>
```

MODS

```
<mods version="3.0">
  <titleInfo>
    <title>North of Boston</title>
  </titleInfo>
  <name type="personal">
    <namePart>Frost, Robert</namePart>
    <namePart type="date">1874-1963</namePart>
    <role>
      <roleTerm authority="marcrelator" type="text">creator</
      roleTerm>
    </role>
  </name>
  <typeOfResource>text</typeOfResource>
  <originInfo>
    <place>
      <placeTerm type="code" authority="marccountry">enk</
      placeTerm>
    </place>
    <place>
      <placeTerm type="text">London</placeTerm>
    </place>
    <publisher>D. Nutt</publisher>
    <dateIssued>1914</dateIssued>
    <edition>1st ed.</edition>
    <issuance>monographic</issuance>
  </originInfo>
```

Example: California Digital Library



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California Digital Library

The California Digital Library supports the assembly and creative use of the world's scholarship and knowledge for the University of California libraries and the communities they serve.

In addition, the CDL provides tools that support the construction of online information services for research, teaching, and learning, including services that enable the UC libraries to effectively share their materials and provide greater access to digital content.



News

- University of California is testing new Google software that will allow greater access to digitized content available online. March 13, [2008 press release](#) [PDF]
- University of California eScholarship® Repository Exceeds 5 Million Full-Text Downloads; 20,000 Papers: [January 2008 CDLINFO](#)
- University of California launches Mark Twain Project Online: [November 2007 CDLINFO](#)

University of California Libraries

The CDL was established as a UC library in 1997. Find out more about the UC libraries' shared collections, strategic planning initiatives, and efforts to reshape scholarly communications at the [University of California Libraries](#) website.

UNIVERSITY OF CALIFORNIA

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500. MAKING USE OF EBB AND FLOW. For the purpose of knowledge we must know how to make use of the inward current which draws us towards a thing, and also of the current which after a time draws us away from it. (Human, All Too Human)

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UM has developed an [OAI toolkit](#) for both data providers and harvesters.

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Frattura ed Integrità Strutturale

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Tools

JH  VE

JSTOR/Harvard Object Validation Environment



Resources:

- Metadata Basics. Library of Congress Cataloger's Learning Workshop.
<http://www.loc.gov/catworkshop/readings/metadatabasics/index.html>
- NISO, 2004. *Understanding Metadata*. Bethesda, MD: NISO Press. <http://www.niso.org/standards/resources/UnderstandingMetadata.pdf>
- Moving Theory into Practice: Digital Imaging Tutorial. Cornell University.
<http://www.library.cornell.edu/preservation/tutorial/contents.html>