Whether your collection is analog or digital, your metadata will still be digital

- Catalog
- Finding Aid
- Spreadsheets or databases
- Embedded within the essence file

Metadata vs. Essence

- Data Fields (buckets)
- Data Values
- Controlled Vocabulary
- Semantics/Syntax/Structure-

Semantics/Syntax/Structure

- **Semantics**
  - meaning, as defined by a community to meet their particular needs (DC)
- **Syntax**
  - a systematic arrangement of data elements for machine processing
  - facilitates the exchange and use of metadata among various applications (HTML, XML, RDF)
- **Structure**
  - a formal arrangement of the syntax with the goal of consistent representation of the semantics (rules defining field contents like 1/11/99)

Cataloging Principles

- [http://mic.imtc.gatech.edu/catalogers_portal/cat_principles.htm](http://mic.imtc.gatech.edu/catalogers_portal/cat_principles.htm)
Cataloging/Metadata approaches

- **Libraries**
  - Item level records
  - Marc/AACR2

- **Archives**
  - Collection level records
  - Finding Aids, finds, boxes, folders
    - http://www.oac.cdlib.org/findaid/ark:/13030/kt9779q7m
    - http://www.oac.cdlib.org/findaid/ark:/13030/tf796nb4fk
    - http://oac.cdlib.org/findaid/ark:/13030/tf238n986k

- **Museums**
  - Art-item level records
  - Science-collection or item level records

- **Smaller Institutions**
  - Databases, Spreadsheets
  - IMAP Template

MIC Website

- http://mic.imtc.gate.edu/

Moving Image Cataloging


Cataloging : Data categories

- **Identification**
  - Unique identifiers
  - Titles
  - Location (physical and digital files)

- **Description**
  - Names of creators
  - Subject and genre access
  - Dates
  - Summaries

- **Technical**
  - Physical description (formats)
  - Digital file information

- **Administrative**
  - Acquisition
  - Access restrictions

- **Legal**
  - Who owns the copyright (intellectual property)
  - Restrictions on preservation, display, and use

- **Preservation**
  - Condition
  - Preservation actions

Brief look at Cataloging Records

- IMAP Cataloging Template
  - http://www.imappreserve.org/cat_proj/sample_records.html
- Library of Congress (AACR2/MARC)
- CNN (hybrid News)
- MIC

What’s challenging about Moving Image Collections?

- Often important to collect various “unpublished” parts in different formats (A/B rolls, mag-stripe film, separated soundtracks, unedited footage, rushes, screen-tests, …)
- Film Archivists seldom organize films or videos in standard archival arrangements (no fonds, boxes, folders, or Finding Aids)
- Ancillary materials (pressbooks, stills, scripts, storyboards, set designs, reviews …) are often necessary to understand a work
Importance of Metadata Standards & Philosophies

For Interoperability, Repositories Need Standards (as well as Sustainability & Access)

- Descriptive Metadata for consistent description
- Discovery Metadata for finding
- Administrative Metadata for viewing and maintaining
- Structural Metadata for navigation
- ... Terms & Conditions Metadata for controlling access...

Uses of Metadata

- Discovery & Retrieval
- Identification/Provenance
- Rights Management
- Viewing
- Integrity
- Longevity
- Content rating

Why are Standards and Metadata consensus important?

- Managing digital files over time
- Longevity
- Interoperability
- Veracity
- Recording in a consistent manner
- Will give vendors incentive to create applications that support this

Semantics/Syntax/Structure

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- Syntax
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The Research Process and Functional Categories of Metadata

- Discovery
- Retrieval
- Collation
- Analysis
- Re-presentation
Dublin Core (NISO Z39.85, 3/95)

- improve resource discovery
- anticipate precision problems of Web Crawler-based searching tools
- existing metadata could be “dumbed down”
- elements should be simple to understand and use, so that any individual should be able to assign terms him/herself
- software might eventually automatically generate very base-level metadata

The number of variant forms of a work can be enormous

- different views of the same object
- different scans of the same photo
- different resolutions
- different compression schemes
- different compression ratios
- different file storage formats
- different details of the same image
- ...

Incorporate parts of Functional Requirements for Bibliographic Records (FRBR)

- work
- expression
- manifestation
- item

- (and push into “change history” section of Technical Image Metadata)

Dublin Core

- Title
- Creator
- Subject
- Description
- Publisher
- Contributors
- Date
- Type

- Format
- Identifier
- Source
- Language
- Relation
- Coverage
- Rights

Image Families

Various Other Metadata Standards
NIso/DFL Technical Image Metadata Workshop--4/99
(Z39.87-2002 draft)

- create metadata needed to manage images in digital repositories over long periods of time (full life-cycle mgmt)
- document image provenance & history
- ensure that the images will be rendered accurately on any output device

NSF/DELOS Actors/Roles Project

- **Classes of Actors, including**
  - Persons
  - Organizations
  - Automata
- **Roles & implications**
  - Production
  - Dissemination
  - Management
  - Use

Multimedia & Collaborative Authorship

- Not only:
  - Authors
  - Editors
  - Publishers
- But also creators of
  - Text
  - Illustrations
  - Composers
  - Musicians...

And goes beyond conventional authors

- Others that are part of digital library process
  - Users
  - Catalogers
  - Reference librarians
- Even other groups/entities
  - Software agents
  - Mediators
  - Special rights holders...

Benefits for

- Linking metadata to authority records
- Rights management
- Privacy protection
Data Structures: The VRA Core
- 28 elements specifically for visual resource collections
- Work Description Categories-
- Visual Document Description Categories-
- http://www.oberlin.edu/~art/vra/dsc.html

VRA Core: Work Description Categories
- Work type
- Title
- Measurements
- Material
- Technique
- Creator
- Role
- Date
- Repository name
- Repository place
- Repository number
- Current site
- Original site
- Style/period/group/movement
- Nationality/culture
- Subject
- Related work
- Relationship type
- Notes

VRA Core: Visual Document Description Categories
- Visual document type
- Visual document format
- Visual document measurements
- Visual document date
- Visual document owner
- Visual document owner number
- Visual document view description
- Visual document subject
- Visual document source

Data Value Metadata (vocabularies)
- LCSH
- TGM
- AAT
- ULAN
- TGN
- VRA Core

LCSH
- very general

Thesaurus for Graphic Materials
- designed for subject indexing of pictorial materials, particularly large general collections of historical images
- for cataloging and retrieval
- good for general audiences and broad approaches to the material
- TGM-I: Subject Terms & TGM-II: Genre and Physical Characteristic Terms
- http://lcweb.loc.gov/rr/print/tgm/toc.html
AAT

- 120,000 terms
- for describing objects, textual materials, images, architecture, and material culture from antiquity to present
- large and complex
- http://www.getty.edu/gri/vocabularies/

ULAN

- name authority
- http://www.getty.edu/gri/vocabularies/

Thesaurus of Geographic Names

- over 1 million records
- hierarchical and global
- throughout history
- most records include coordinates and descriptive notes

Metadata for Digital Commerce

- DOI
- <indecs>

<iIndecs>

- formal structure for describing and uniquely identifying intellectual property itself, the people and businesses involved in its trading, and the agreements which they make about it (primarily for publishing, music, and visual arts)
- will develop high-level specifications for the services that will be required to implement a global IP trading system based on this <indecs> generic data model
- focus is on encoding rights at a high level, not on resource discovery
- likely to involve metadata schema registration and directory to allow interoperability of personal identifiers for rightsholders and users
- supported by EEC DG-13
- First meeting July 1999
- http://www.indecs.org/

Cataloging, Metadata & Best Practices

Howard Besser, NYU Archiving & Preservation Program

- http://www.gseis.ucla.edu/~howard/Metadata/UC-May99/
- http://sunsite.berkeley.edu/Metadata/sp2000.html
- http://www.zln.org/commitau.html
- http://www.ifla.org/II/metadata.htm
- METS official site: http://www.loc.gov/standards/mets
- University of California Digital Image Collection Standards & Best Practices (http://www.cdlib.org/inside/groups/stas/standards/)

- http://www.cdlib.org/inside/groups/stas/standards/
Online Access

- Internet Archive/Prelinger (high quality)
  - http://www.archive.org/movies
- Participant contributions (low quality)
  - http://www.youtube.com

Access--NARA/Amazon

Amazon to Copy and Sell Archives’ Footage
Post DVRs Already Available Under Non-Exclusive Deal

By Michael A. King
Washington Post Staff Writer
Tuesday, July 14, 2009, 12:31

The National Archives and Records Administration announced yesterday that it has reached a nonexclusive agreement with Amazon.com and one of its subsidiaries to reproduce and sell to the public copies of hundreds of historic films and videotapes in the Archives’ holdings.

The arrangement allows Amazon and Calaméo, a subsidiary of the San Francisco firm that makes digital copies of some of history’s most famous and obscure items, access to the hundreds of films and videotapes available in DVD form for purchase via the Internet.

Archives and Amazon officials announced yesterday that the agreement is nonexclusive, a

Archives official stressed that the deal is exclusive with the cable television network FoxHome.

That deal, agreed to last year, which includes the Smithsonian, also gave FoxHome the exclusive deal for the historical materials in the Smithsonian’s collection.

"We have never done an exclusive deal with anybody," National Archives spokeswoman

Archives in a statement, the statement, said.

"The more you make the archives accessible to the public, the better for everyone in.

Archives--SOIMA Metadata 18/11/09