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SI 640 DIGITAL LIBRARIES AND ARCHIVES

2010 Week 8: Metadata - Getting to METS

THEMES FOR THIS WEEK

- Panel discussion on Content
- Assignment briefing
- Metadata and digital libraries
- Origins and development
- METS

"Metadata is the core of any information retrieval system and so its implications for any digital library are profound." Gartner, 2008.

DRIGINS AND DEVELOPMENT

- 1. Metadata
- 2. Developments
- 3. METS

- 1998 Research agenda ad mid-point of early developments.
 - All things metadata metadata as the solution for long-term preservation
 - Simple schemes, complex objects, vision of interoperability
 - Data exchange infrastructure
 RDF, crosswalks
 - Policy and management (anticipated standards development, archival issues, and measurement)

DRIGINS AND DEVELOPMENT

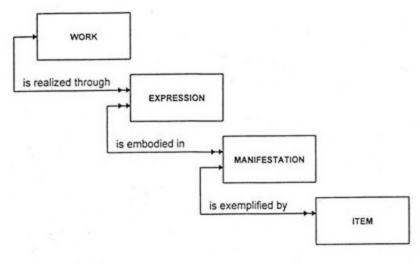
- 1. Metadata
- 2. Developments
- 3. METS

- Early digitization projects highlighted the critical value of metadata.
 - Discuss (quickly): what is metadata
 - Discuss: what roles for metadata in DL/DA?
 - Discuss: what roles for metadata beyond DL/DA?

TETADATA AND DIGITAL IBBARIES

- 1. Metadata
- 2. Developments
- 3. METS

- Inexorable trends toward standardization at multiple levels
- XML standard behind the standards
 - SGML to HTML to XML
- Functional Requirements for Bibliographic Records (FRBR) inspired



A FAMILY OF METADATA FOR DL/DA

- 1. Metadata
- 2. Developments
- 3. METS

- Descriptive Metadata
 - For input and output
 - MODS and Dublin Core
- Administrative Metadata
 - For content management
 - MIX, VideoMD, AudioMD, Rights, source data, preservation (PREMIS)
- Structural Metadata
 - For hierarchies and relationships, inventory
 - Physical or logical structure

BRIEF HISTORY: FROM EAD TO METS

- 1. Metadata
- 2. Developments
- 3. METS

- *EAD* originated at UCB in Berkeley Finding Aid Project: 1993-1995; goal linking EAD finding aids to digital content
 - http://www.loc.gov/ead/
- MOA1 developed digitization standards for books and journals: 1995-96; scanning and OCR quality + MD challenges
 - http://quod.lib.umich.edu/m/moagrp/about.html
- *Ebind* specified how discrete images fit together into a structured, coherent whole
 - http://sunsite.berkeley.edu/Ebind/
- MOA2 defined functionality & MD needed for DO's, 1997-99 (structural, descriptive, administrative)
 - http://sunsite3.berkeley.edu/MOA2/
- *METS* expanded MOA2 DTD by supporting more flexibility for descriptive and administrative metadata, and audio / video / other data formats (2001 present)
 - http://www.loc.gov/standards/mets/mets-home.html

TRANSMISSION STANDARD

- 1. Metadata
- 2. Developments
- 3. METS

- METS supports world-wide exchange of metadata and associated content
- The <content> of metadata schemes is an open question
 - RDE, authorities, etc. on the horizon
- Too complex without tool development
- Software developers must adopt not a DIY approach

ACDONOUGH'S CRITIQUE OF METS

- 1. Metadata
- 2. Developments
- 3. METS

- Challenge of interoperability in two ways
 - Abstract elements provide flexibility
 - Structural depth, labeling, arrangement
 - Standards independence
 - Need for each standard to be whole on its own
 - o DC, MODS, PREMIS, MIX all contain coding conventions for structure
- Flexibility empowers the local and works against interoperability.
- "It is, in essence, promoting the development of regional dialects at the expense of mutual intelligibility." (p. 13)
- Calls for equal attention to schema development AND translation between schemas

Thank you!

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