Metadata services in the context of digital humanities

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Metadata Services in the Context of Digital Humanities

Sai Deng, University of Central Florida Libraries
The Research Lifecycle at UCF: Project Cycle

- **Research Lifecycle @ UCF**
  - **The Project Cycle**: Services

  - **Data Set Metadata**
    Supported by the UCF Libraries
    ([Metadata page](#))
  - **Analysis Support**
    Currently unsupported
  - **Research Data**
    Supported by the [Institute for Simulation & Training’s Advanced Research Computing Center](#)
  - **Ethics & Compliance**
    Supported by the [Office of Research & Commercialization’s Ethics & Compliance](#)
Digital Humanities Dataset

• Library Services for Digital Humanities
  • Goals (Assumptions): To assist in the “application of computing processes and tools to humanities research,” to
  • help in bridging the gap between the needs of the humanities scholars and the available/potential digital content, technologies and services, and to
  • support digital humanities data presentation, discovery, preservation and provenance.

• Humanities Dataset/Collection
  • Manuscripts; "works by"/author collections (e.g., Harrison Buzz Price)
  • Text, linguistic corpora
  • Image collections (e.g., African American Legacy - The Carol Mundy Collection)
  • Audio, video, podcast collections (e.g., UCF Community Veterans History Project; A History of Central Florida: Podcast Project)
  • Thematic research collections (e.g., Civil War)
Dataset Metadata and Metadata Services

• Provides consultation and assistance in various aspects of the data lifecycle
  • Using vocabularies from the UK data Archive data lifecycle: creating-processing-analyzing-preserving-giving access-re-using
    • (“creating-processing-analyzing” can fall into “Research Lifecycle @ UCF - Project Cycle”)
    • Creating data: ...Collect data; Capture, create metadata;
    • Processing data: Enter data, digitize, transcribe, translate; Check, validate, clean data; Anonymize data; Describe data...
    • Analyzing data: Interpret data...
    • Example: Data Markup (can occur in “describe data,” “interpret data” etc.)

• Metadata Guide (@ UCF Libraries)
  • Research Data & Dataset
  • Dataset Metadata Checklist (Consider what is needed for the data to be read and interpreted in the future; Understand funder requirements; Consult available metadata standards; Use software programs and tools; Adopt a thesauri or compile a data dictionary; Obtain persistent identifiers)
  • Data Documentation

• UCF Graduate Workshop: Data Documentation & Metadata (Past slides)
Dataset Metadata and Metadata Services

• Dataset Metadata and Metadata Services (Using library vocabularies)
  • Provides consultation/assistance in:
    • Project and dataset documentation;
    • Applying metadata standards and ensuring compliance of standards;
    • Metadata schemas customization (based on project needs);
    • Controlled vocabularies and thesauri, including subject and identity management;
    • Metadata work to improve search and retrieval of data;
    • Metadata literature and best practices, and data curation tools and practices.

• Helps in describing basic properties for your data, enriching metadata for your datasets, and designing mechanisms to link within and beyond datasets;
• Supports applying controlled vocabularies or optimizing keywords to enhance the search of your datasets;
• Assists in preparing your metadata and data for deposit and preservation.
• Metadata Services is provided in both the Project Cycle and the Digital Scholarship Cycle.
Describe Your Data: Implementing Metadata Standards (DH Related)

Why metadata? Data documentation, Metadata standards... ([Metadata Guide @ UCF Libraries])

**Descriptive Metadata**
- **Content Standards**
  - Cataloging Cultural Objects (CCO)
  - Categories for the Description of Works of Art (CDWA)
  - Resource Description and Access (RDA)
  - Describing Archives: a Content Standard (DACS)
- **Data Value Standards**
  - LC Name Authority File
  - LC Subject Headings
  - Art and Architecture Thesaurus (AAT)
- **Data Structure Standards**
  - Dublin Core (DC)
  - Visual Resources Association (VRA) Core
  - Text Encoding Initiative (TEI)
- **Data Exchange Standards**
  - MARCXML, DC/RDF

**Structural Metadata**
- Metadata Encoding & Transmission Standard (METS)
- EAD hierarchical structure

**Administrative Metadata**
- Technical: textMD, MPEG-7
- Rights: Creative Commons
- Preservation: PREMIS
Organize, Encode, and Provide Access to Your Data: Controlled Vocabularies, Metadata Schemas and Application Profiles

- **Organize Knowledge for Retrieval: Controlled Vocabularies**
  - Lists, Synonym rings, Taxonomy (hierarchical), Thesaurus (BT, NT, RT), Classification Schemes, Ontology (entities and relationships)
  - LC Subject Headings, FAST (Faceted Application of Subject Terminology)
  - Getty Institute Art and Architecture Thesaurus (AAT)
  - Controlled Vocabularies and Thesauri Guide

- **Encoding Your data**: Metadata standards are meant for humans, and Schemas are
  - Built to be **machine readable**, e.g., XML Schema;
  - Defines element, types, attributes, order, optional or compulsory, repeatability, parent/child, logic.

- **Metadata Customization for Your Collection - Application Profile**: The set of metadata elements, policies, guidelines, and controlled vocabularies **defined for a particular project or object type**. (Mix and customize)
Define Relations and Add Linking to Your Data

• Relation Fields in Various Element Sets (DC, MODS, TEI, CDWA-Lite, VRA, EAD)
  • dc.relation, mods.relatedItem, tei.relation, cdwalite.labelRelatedWork, cdwalite.locRelatedWork, vra.relation, ead.relatedmaterial...

• Linking
  • Datasets Linked to Publications
  • Data Fields Linked to External Resources
  • Semantic Linking: Linked Data Sets
    • LC Name Authority File
    • VIAF (Virtual International Authority File)
    • ORCID (Open Researcher and Contributor ID)
    • LC Genre/Form Terms
    • Thesaurus for Graphic Materials
Example

<table>
<thead>
<tr>
<th>Metadata Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
<td>Episode 02 Ceramic Pots</td>
</tr>
<tr>
<td>Series Producer</td>
<td>Robert Cassanello, University of Central Florida</td>
</tr>
<tr>
<td>Streaming Media</td>
<td><a href="https://www.youtube.com/watch?v=F9KRnUtKLV0">https://www.youtube.com/watch?v=F9KRnUtKLV0</a></td>
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<td>youtube</td>
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<td>Ceramic Pots</td>
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<td>Preferred Title</td>
<td>A History of Central Florida: Podcast</td>
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<td>Keywords</td>
<td>Pre-Columbia Florida Indian pottery; St. Johns pottery; Clay pottery; Clay; Southeast Florida: St. Johns River; St. Johns culture; Pottery analysis; Spindles; Origin and development of pottery; Artifacts; Central Florida</td>
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<td>Pottery; Prehistoric--Florida; Indians of North America--Florida--Antiquities (Archaeology)--Florida; Florida--Antiquities; Social archaeology; Archaeology</td>
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<tr>
<td>Type</td>
<td>Video; MovingImage</td>
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<td>Creator (Linked data)</td>
<td>- empty -</td>
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<td>Contributor (Linked data)</td>
<td>Cassanello, Robert (VIAF); Cassanello, Robert (LC); Wallis, Neill J; V (VIAF); Milani, Jerald T. (LC); Clarke, Bob, 1964- (VIAF); Clarke, Bob; History Center (VIAF); Orange County Regional History Center (LC)</td>
</tr>
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</table>

Linked data fields:
- Both VIAF and LC linked data uri(s) are added for the names, e.g., Contributor (Linked data)

Statement: Subject – Predicate - Object
This podcast – has contributor – Wallis, Neill J
Example (Cont.)

<table>
<thead>
<tr>
<th>Collection</th>
<th>A History of Central Florida: Podcast</th>
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</thead>
<tbody>
<tr>
<td>Geographic Coverage</td>
<td>Saint Johns River (Fla.)</td>
</tr>
<tr>
<td>Temporal Coverage</td>
<td>4000BC?</td>
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<tr>
<td>Contributor</td>
<td>Ford, Chip; Cassanello, Robert; Wallis, Neil J.; Clarke, Eob, 1964; Kelley, Katie; N County Regional History Center; Florida Museum of Natural History; RICHES of C</td>
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<tr>
<td>Disciplines</td>
<td>American Art and Architecture</td>
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<tr>
<td>Description</td>
<td>In this episode of A History of Central Florida we spoke with Drs. Jerald Milani...</td>
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| Images Related to This Episode | Clay pot 1 from New Smyrna |

**Keyword and Subject Facets for the Collection**

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<thead>
<tr>
<th>KEYWORD</th>
<th>DISCIPLINE</th>
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<td>Central Florida (53)</td>
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<td>Land (6)</td>
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<td>Social and Cultural Anthropology (6)</td>
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<td>Prehistoric tools (5)</td>
<td>Architecture (3)</td>
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<td>Sociology (3)</td>
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<td>Communication (2)</td>
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<td>Southern economy (4)</td>
<td>Education (2)</td>
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<td>Daytona Beach (3)</td>
<td>Engineering (2)</td>
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<td>Florida frontier (3)</td>
<td>Geography (2)</td>
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<td>Frontier life (3)</td>
<td>Higher Education (2)</td>
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<td>New Smyrna Museum of History (3)</td>
<td>Hospitality, Administration and Management (2)</td>
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<tr>
<td>Relationship between the Europeans and the Indians (3)</td>
<td>Life Sciences (2)</td>
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<td>Social life (3)</td>
<td>Missions and World Christianity (2)</td>
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<td>Peace and Conflict Studies (2)</td>
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<td></td>
<td>Recreation Business (2)</td>
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<td>Religion (2)</td>
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</tbody>
</table>
Resources

• Metadata Related Resources @ UCF
  • Metadata Services
  • Metadata Guide

• Internal and External Workshops (Slides)
  • Data Documentation & Metadata (2015)
  • Dataset Metadata (2013), Metadata Services (2013)

• STARS: Showcase of Text, Archives, Research & Scholarship
  • STARS' Author FAQ: For metadata issues
  • Metadata Guide for STARS

• Other Resources
  • Data Curation Profiles
  • Digital Humanities Data Curation
  • Research Lifecycle @ UCF
  • Scholarly Communication @ UCF
Thank you!

Contact: Sai Deng,
Metadata Librarian,
sai.deng@ucf.edu