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 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 Exchange Standards
    - MARCXML, DC/RDF...
  - Data Structure Standards
    - Dublin Core (DC)
    - Visual Resources Association (VRA) Core
    - Text Encoding Initiative (TEI)...

- **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
Metadata Description and Data Linking:
Resource, Properties, Values, Related Resources...

Podcast
Episode 02
Ceramic Pots

Relation.Is part of
Collection
A History of Central Florida: Podcast

Keywords
Pre-Columbia Florida Indian pottery; St. Johns pottery; Clay pottery; Clay pots; Food storage; Cooking; Ceramic vessels; Southeast Florida; St. Johns River; ...

Subjects
Pottery, Prehistoric-Florida; Indians of North America--Florida--Antiquities; Prehistoric society (Fla.); Indians; Excavations (Archaeology)--Florida; Florida--Antiquities; Archaeology...

Contributors
Cassanello, Robert (VIAF); Cassanello, Robert (LC);
Wallis, Neill J. (VIAF); Wallis, Neill J. (LC);

Images
Clay pot 1 from New Smyrna

Contributed by
Wallis, Neill J. (VIAF); Wallis, Neill J. (LC);

Contributors
Wallis, Neill J. (VIAF); Wallis, Neill J. (LC);

Co-authors
Randall, Asa R.

New histories of pre-Columbian Florida

Identifier.uri
https://www.youtube.com/watch?v=F9KRnUfKLVO

Type
Video; MovingImage

Pre-Columbia Florida Indian pottery; St. Johns pottery; Clay pottery; Clay pots; Food storage; Cooking; Ceramic vessels; Southeast Florida; St. Johns River; ...

New histories of pre-
Columbian Florida

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New histories of pre-
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Example

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<td>In this episode of A History of Central Florida we spoke with Drs. Jerald Milanich Indian Ceramics which can be seen along with other items at The New Smyrna</td>
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**Images Related to This Episode**

Clay pot 1 from New Smyrna

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**Keyword and Subject Facets for the Collection**

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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