SharedCanvas

Interoperability for Digitized Medieval MSS Repositories

Using the OAC Data Model for Shareable Annotations
Workshop
24-25 March 2011
Overview:

- Why medieval manuscripts?
  - Parker on the Web
    - http://parkerweb.stanford.edu
  - Established Community (Communities)
  - Agreed-upon Requirements and Goals

- Problem
  - Parker 1.0 did not address actual scholarly use

- Proposed Solution
  - DMSTech Project (aka. “Defining a Modular and Interoperating Environment for Collections of Digitized Medieval Manuscripts, Tools, and Users”)

[Image of Parker Library on the Web]
Working with manuscript silos

User
- Parker Viewer
- Parker Index
- Parker Metadata
- Parker Images

User
- E-codices Viewer
- E-codices Index
- E-codices Metadata
- E-codices Images

User
- Inventoriana
- Load images in local environment
- Request Images from Repository
- Find and identify images
Defining Interoperability

- Break down silos
- Separate data from applications
- Share data models and programming interfaces
- Enable interactions at the tool and repository level
Problem Statement

• Needs:
  – Web-based access to digital facsimiles from numerous repositories in a non-silo fashion
  – Web-based access to datasets concerning medieval manuscripts, and the ability to link that data to other datasets (both textual and image-based)
  – Data roundtrip: repository to tool / tool to repository

• Goal(s):
  – Distribution of functionality and a separation of the data layer from the application layer, bridged by common APIs and data model.
  – Multiple user entry points for data held in digital libraries
  – Encourages the sorts of comparative and cross-repository work that scholars tell us they need.
Designing Modular Repositories and Tools

3rd-Party Tools
- Transcription
- Annotation
- Image Analysis
- Image Viewer
- Discovery
- Tool X?

Repository User Interface
- Image Viewer
- Discovery

Repository
- Metadata (Canonical)
- Image Data (Canonical)
Designing Modular Repositories and Tools

3rd-Party Tools
- Transcription
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Repository
- Image Viewer
- Discovery

User Interface

Metadata (Canonical)

Repository
- Image Data (Canonical)
Designing Modular Repositories and Tools

Transcription  Annotation  Image Analysis  Image Viewer  Discovery  Tool X?

Image Viewer  Discovery

Metadata (Canonical)

Image Data (Canonical)
Using Modular Elements

User

No Tool

Repository 1

Tool 1

Repository 2

Tool N

Repository 3
Using Modular Elements

User

No Tool

Repository 1

Tool 1

Repository 2

Tool N

Repository 3
Using Modular Elements
Using Modular Elements

User

Tool 1

No Tool

Repository 1

Repository 2

Repository 3

Tool N

...
Using Modular Elements

User

Tool 1

Tool N

Repository 1

Repository 2

Repository 3

No Tool

...
Using Modular Elements

- User
- Tool 1
- Tool N
- Repository 1
- Repository 2
- Repository 3
- No Tool
Viewer Interchangeability: 3rd-Party Viewer, 2 Repositories

Parker Data consumed by IA Book Reader

e-codices data consumed by IA Book Reader
Functional Interoperability: Cross-Repository Discovery

http://dmss.stanford.edu
DMSTech Partners and Associated Use-Cases
Partners

Repositories:
• Bibliothèque national de France
• British Library
• e-codices
• Roman de la Rose Digital Library
• Oxford University Library
• Stanford University Libraries
• And…?

Tools:
• Digital Mappaemundi
• MARGOT Annotation Tool
• SALSAH
• TILE
• T-PEN

Scholarly Projects:
• Johns Hopkins University Cluster (PI - Steve Nichols)
  • Medieval Latin Manuscript Transmission in a Digital Environment
  • Machaut in the Book
  • A Multidimensional Database for Vernacular Bible Production in the Middle Ages
  • Dynamic Modeling and Differential Imitation in 14th-century Manuscripts
• University of Toronto Cluster (PI - Alexandra Gillespie)
  • Palaeographical Cruxes in Old English Manuscripts
  • Manuscripts of Aelfric’s Catholic Homilies
  • Networks of Book Makers, Owners and Users in Late Medieval England
  • Parker’s Scribes
  • The Writing of Petitions in Later Medieval England
Project Links

• Scholarly Use-Cases:
  – http://www.stanford.edu/group/dmstech/cgi-bin/drupal/

• Project Overview:
  – https://lib.stanford.edu/dmm

• Project Wiki:
  – http://www.stanford.edu/group/dmstech/cgi-bin/mediawiki/index.php/Main_Page
• Data Creation, Access and Preservation
  – Images & Metadata
  – Discovery

• Data Creation and Use
  – Research based on data held in digital libraries
    • Cross-repository discovery and viewing
  – Contribute new information back into the system
    • Transcriptions, observations, other annotations

• Applications to consume, produce, and aggregate data