Digital Visualization and Dissemination Tools: University Libraries

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Digital Visualization and Dissemination Tools
University Libraries
Barbara Cockrell, Paul Howell, Sheila Bair, Sue Steuer, Jason Glatz, Michele Behr, Maira Bundza
Scholarly communication changing

• How to get your research out into the world?
• Publications moving from print to online
• No longer confined to traditional journal structure
• Much published under Open Access Initiative - may replace or supplement traditional publishing
• University Libraries provide support services
What are your interests?

• Digitization
• Descriptive metadata – for better access to your research
• GIS mapping
• Citation tracking and targeted publishing
• Archiving and publishing through ScholarWorks
University Libraries Digitization Center

Providing Quality Planned Digitization
Transforming Information for Access, Preservation and Research

Paul Howell
Support for Projects with Digital Content

- Recommendations for Project Management
- Information on Copyright
- Technology Standards and Best Practices
- Assistance with Metadata Requirements
- Image Capture and/or Conversion
- Various Hosting Possibilities
Partnering / Assisting with Grants

- Project or Proposal Planning Assistance
- Technological Expertise
- Help with Technology Content on Submissions
- Unique Resources and Capabilities
- Tools for Development and Dissemination
The Digitization Center Operates on a Cost Recovery Basis Charges are Determined by Specific Project Requirements

Unique Resources and Capabilities

• Specialized Image Capture Systems Including:
  – High Speed Double Side Sheet-fed Scanners
  – Slide Scanners with Auto Feed
High Resolution and Oversize Flatbed Scanners
Specialized Book Scanners
Digital Cameras and Copy Systems
Photography up to 200 Megapixels
Color Management and Image Analysis Capabilities for Accurate Results
Specialized Lighting Studio for 3D Items
Wide Format Scanning to 42 Inches
Unique Resources and Capabilities (cont.)

• Wide Format Printing
• Digital Reproduction up to 12 x 18 inches
University Libraries Digitization Center

http://www.wmich.edu/library/digi/

For
Information
Consulting
Possibilities
or a
Tour

Contact us at:

387-4776 or 387-2002
LIB-DC@wmich.edu
Metadata: getting your stuff out there and helping people who want it find it

Sheila Bair, Metadata Cataloger
Susan Steuer, Head of Special Collections
Metadata is crucial for the new tools for scholarly dissemination

• What is metadata?
• How can it make your research easy to find?
• How can we help you create good metadata?
  – The best metadata is a partnership between subject experts and metadata experts
  – Good metadata puts your research at the top of list in google and other searches
Álvar Núñez Cabeza de Vaca (c.1490–c.1559)

- **Relación**
  - **Spanish Text** (in xml at EADA)
  - **English Text** (in xml at EADA)
  - **Facsimile** of eighteenth-century edition by González de Barcia at *Historias Paralelas*

- **Relacion general** Ed. Pablo Pastrana-Pérez (at EADA)
- **Comentarios de Álvar Núñez Cabeza de Vaca** ed. Pablo Pastrana-Pérez (at EADA)
Comentarios de Álvar Núñez Cabeza de Vaca

An Electronic Edition

Álvar Núñez Cabeza de Vaca 1490-1556

Original Source: Núñez Cabeza de Vaca, Alvar, 16th cent. Commentarios de Álvar Núñez Cabeza de Vaca. Valladolid, Spain, 1555. (Archivo General de las Indias. Sevilla, Spain. Justicia 1131, folios 57r-146v)
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Metadata gets your work to the top of the list

- Google search for Comentarios by Cabeza de Vaca
How Much Did the Germans Know about the Final Solution?: An Examination of Propaganda in the Third Reich

by Melissa A. Braman

In 1925, while Adolf Hitler was serving a short sentence in jail for his failed Beer Hall Putsch, he wrote in Mein Kampf: “With the year 1915 enemy propaganda began in our country, after 1916 it became more and more intensive till finally, at the beginning of the year 1918, it swelled to a positive flood.” Hitler, a soldier of World War I, had experienced first hand the power of propaganda during the war. With the failure of Germany to counteract the Allied propaganda, Hitler noted, “The army gradually learned to think as the enemy wanted it to.”[1]
World War II Propaganda
Costume History Collection

http://web.library.wmich.edu/digidb/costume/
Optimized for Web discovery

• Google search for 19th century French fashion capotes
• Google search for Reichsbanknote Nazi propaganda
WMU Libraries Mapping Service

Jason Glatz, Maps Coordinator
What is GIS?

- Land parcel data model
  - Administrative areas
  - Site addresses, regulated uses, restrictions
  - Separated rights and encumbrances
  - Ownership and tax parcels
  - Parcel framework
  - Corners and boundaries
  - Survey network
  - Digital orthophotography and hydrography

- Arc Hydro data model
  - Streams
  - Hydrographic points
  - Drainage areas
  - Hydrography
  - Channels
  - Surface terrain
  - Rainfall response

Layer: Digital orthophotography
Map use: Map background
Data source: Aerial photogrammetry and satellite collection
## Why Use GIS?

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![2011 Kalamazoo Marijuana Proposal](image)
How Can GIS be Used?

Representation vs. Analysis

Population of WMU Students, 2012

Distribution of WMU Students, 2012:
- 1 - 4
- 5 - 16
- 17 - 41
- 42 - 101
- 102 - 456

Populated Places Approximately 2,887 Miles from Kalamazoo
Study Site
12 km Buffer
Cropped with Centroids
Regression Data

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Citation Tracking and Journal Impact Factors

Michele D. Behr, Off Campus Librarian
Analyzing Citations and Journals

• Primarily for tracking traditional forms of publication
• Tools for analyzing authors, institutions, and journals include:
  – Scopus
  – Web of Science
  – Google Scholar
  – Journal Citation Reports
Tracking Citations for Individual Authors or Works

- Scopus Citation Tracker
  - Author Evaluator report
  - H-index calculation tracks productivity and impact of an author
- Web of Science Citation report
- Google Scholar
- Creating alerts for ongoing updates
Tools for Analyzing Journal Titles

• Journal Citation Reports
  – Impact Factor
  – Immediacy Index

• Google Scholar Metrics
Scholarly Communication with ScholarWorks

Maira Bundza, ScholarWorks Librarian
ScholarWorks at WMU

- Scholarly repository
  — From Academic Strategic Plan of 2010
- Disseminate your research
- Satisfy grant requirements
- Provides non-traditional outlet
- 5,370 papers, downloaded 152,300 times in 18 mos.
Make faculty and student work available

- Post
  - Articles (often pre or post-prints)
  - White papers
  - Presentations
  - Research posters
  - Dissertations, masters & honors theses, senior projects
- Get monthly reports on downloads
Publish journals

• Start a new journal at a minimal cost
• Make back issues of old journal more accessible online
• Simplify publishing process by moving online
• Built-in online submission & peer-review process
- 50+ years digitized
- Moving online
- 70,000 downloads
- 2008 article 2nd most popular in ScholarWorks downloaded 6250 times
- 7 issues
- 16,000 downloads
- one article most popular in SW downloaded 6360 times
New journals

Teaching Writing
- First issue up in 4 months
- 1,100 downloads since April

Open Journal of Occupational Therapy
- First issue expected by end of year

Accessus: A Journal of Premodern Literature and New Media
- In process
Organize events & disseminate proceedings

- Get together to share research and work
- Accept submissions online and review
- Create a schedule
- Publish proceedings
- Intl Congress on Medieval Studies
  - Over 500 sessions/congress
  - Digitized back schedules
  - 21,500 downloads of schedules
- Other WMU conferences in the works
Create Professional Page

- SelectedWorks
- Live CV – upload full text or link
- Get usage reports
- Gather pages by department
- Great for new faculty
- Available for graduate students
- Take with you if leave WMU
Other opportunities

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  – Out of print
  – Too big, small or esoteric for traditional publishers
  – Open access textbooks

• Put images online

• Put supplemental research material online
  – Could not include in your article or book?
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susan.steuer@wmich.edu

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jason.glatz@wmich.edu

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michele.behr@wmich.edu

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maira.bundza@wmich.edu