

The Indiana University Digital Library Program

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LIBRARIES

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Bloomington



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Indiana University Digital Library Program

- Collaborative effort begun in 1997
 - Libraries
 - University Information Technology Services
 - School of Library and Information Science
 - School of Informatics
- Bloomington-based; supporting 8 campuses
- “Dedicated to the production, maintenance, delivery, and preservation of a wide range of high-quality networked resources for scholars and students at Indiana University and elsewhere”



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IU Digital Library Program: Origins

- Existing digital library services
 - Variations digital music library
 - LETRS: Library Electronic Text Resource Service
 - DIDO: Digital Images Delivered Online
- IU IT Strategic Plan recommendations



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IU Digital Library Program: Activities

- Digital collection building
- Infrastructure development and management
- Consulting on digitization, metadata, usability
- Research

Supporting library, archive, museum,
academic department, and faculty-based
digital collections



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IU Digital Library Program

- 12 FTE permanent staff and librarians
- 10 grant-funded staff
- Partner in over \$10 million in grant funding since 1997



What is a digital library?

- 1997
 - Digitized collections
- 2007
 - Digital collections
 - Tools for discovering and managing digital information
 - Tools for using digital information in research, teaching, and learning
 - Integration of library-based collections and tools into the larger digital environment
 - Digital publishing
 - Data



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IU Digital Library Program: Collection Project Examples

- Electronic text
 - Victorian Women Writers
 - Wright American Fiction
 - The Chymistry of Isaac Newton
- Images
 - U.S. Steel Gary Works
 - Charles W. Cushman Collection
 - DIDO (art history)



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IU Digital Library Program: Collection Project Examples

- Music
 - Variations
 - IN Harmony: Sheet Music from Indiana
- Multimedia
 - Hoagy Carmichael Collection
- Indices
 - Film Literature Index Online
 - Russian Periodical Index



Digital Repositories

- Centralized systems for storing and managing digital content and metadata
- Support **access** to and/or **preservation** of information



Motivations for Repositories

- Leverage economies of scale
- Provide core functionality in one place
 - Bit storage, access control, file integrity checking
- Tie in to other institutional systems
 - Mass store, streaming, course management...
- Provide standard UIs and APIs for interoperability with other repositories and tools
- Provide standard ways of deploying new content



Institutional Repositories

- Repositories created to preserve and provide access to an institution's research output
 - Typically document-focused
- Motivators:
 - Open access
 - Preservation
 - Public engagement



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Repositories at IU

- IUScholarWorks institutional repository
 - Based on MIT/HP DSpace software
 - scholarworks.iu.edu
- IU digital object repository
 - Based on Cornell/UVa Fedora open source software
 - Long term foundation for digital libraries at IU, including IUScholarWorks



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IUScholarWorks

- IU Bloomington Institutional Repository
- Joint project of Digital Library Program and IU Bloomington Libraries
- Currently based on MIT/HP DSpace open source software
- Supports both direct submission and library-assisted submission of documents
- scholarworks.iu.edu

IU ScholarWORKS

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Welcome to IUScholarWorks

IUScholarWorks is a set of services from the [IU Libraries](#) and [Digital Library Program](#) to make the work of IU scholars freely available, while ensuring that these resources are preserved and organized for the future. After testing on the Bloomington campus, the service will be offered to other IU campuses who are interested in participating.

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Digital Preservation and Repositories

- Much information only in digital form
 - Born digital
 - Reformatted from obsolete media, e.g. audio
- How do we keep digital information available for future generations?
- Migration vs. emulation
- Migration preferable for most non-interactive content



OAIS: Open Archival Information System

- Conceptual framework for an archival system dedicated to preserving and maintaining access to digital information over the long term
- Origins in space science community
- Basis for much current thinking on repositories in digital library community
 - Trusted Digital Repositories
 - *TRAC: Trusted Repository Audit and Certification*



Digital Preservation at IU

- Implementing an OAIS-compliant repository based on Fedora
- Developing best practices for digital preservation in audio and video
 - *Sound Directions*
 - *EVIA Digital Archive*
- Starting to look at other media



Extending Repositories to Research Data

- MDSS + Fedora = research data repository?
 - Issues to be addressed
 - Access control
 - Scalability
 - Linking
 - Metadata
 - Discovery
 - Migration
- } diversity of data vs. typical digital library objects



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Thank you!

- IU Digital Library Program
 - www.dlib.indiana.edu
- IUScholarWorks
 - scholarworks.iu.edu
- jwd@indiana.edu