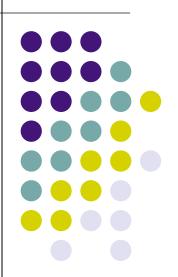
The Digital Library Agenda for the 21st Century Research Library

Envisioning a Strategic and Collaborative Digital Research Library



Plato L. Smith II Florida State University Libraries Presentation May 13, 2005

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Use of Copyrighted Materials



- "Open Access" to copyrighted materials
- Ownership of materials to be digitized and "born digital"
- Create and implement University-wide accepted "Open Access" to copyrighted materials resolution statements
- Conduct regularly scheduled copyright users-instruction workshops for faculty, students, staff, and patrons

Use of Copyrighted Materials – A Creative Commons Approach



- Creative Commons gives new meaning to the term creative license
- Creative Commons allows copyright owners the flexibility and manageability to control the use of their copyrighted works by allowing a mix of licensing options from which to choose and share their creative works.
- Digital Library Initiatives must incorporate Creative Commons approaches into project implementations and thereby educate faculty, student, staff, and patrons in the process (lead by example)





21st Century Digital Library Agenda



- Define the goals and characteristics of the digital preservation repositories
- Establish administrative and technical models for digital preservation repositories
- Convey how preservation repositories metadata will be encoded, stored, and managed
- Provide user-centered access to digital repositories

Goals and Characteristics of Developing a Digital Repository – U. Minn. Libraries Case File



- Organization: U. Minn. Libraries
- Location: Minnesota
- Goals: Digital Collections Unit needed to digitize, describe, and provide access via searchable database to over 6,000 oversized World War posters
- Issues considered: Physical conditions, copyright, duplicates
- Equipment Used: Power Phase FX Digital Camera System
- Image File Format: High-resolution 24-bit, uncompressed TIFF, min. res. 300 pixels per inch; derivatives thumbnail and screen-size images saved as JPEG at 120 pixels per inch
- Storage: Wrote each image to durable optical storage media
- Time spent digitizing: 4,000 hours (100 weeks)
- What's next: Enhanced database search features

Digital Preservation Repository Metadata Elements



- Unique Digital Identifier
- Other Identifier(s)
- Title
- Series
- Caption
- Creator
- Publisher
- Other contributors
- Year of creation
- Owning repository
- Object location

- Ownership History
- Medium
- Media
- Original Dimensions
- Descriptions
- Subject Terms
- Use/Rights
- Notes
- File Format
- Bit Depth
- Resolution

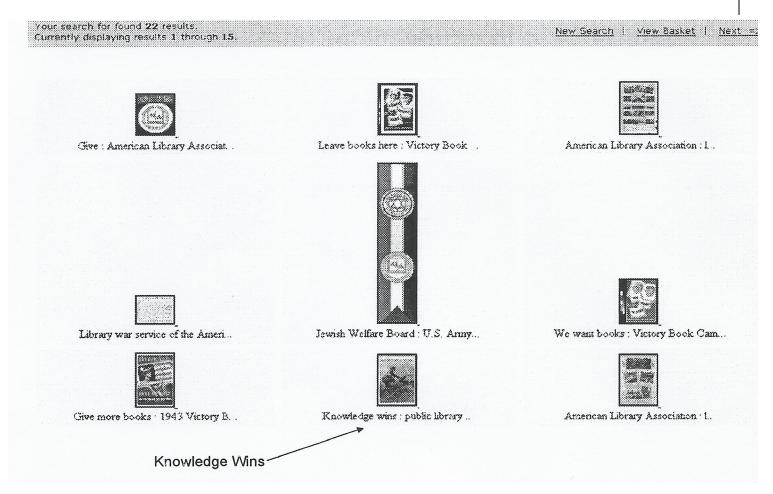
Digital Preservation Repository – Search GUI (May 2005)



Search The War Posters Collection Search for: Keywords * Limit Search by Specific Subjects: Select Period: Allied Powers (1919-) Alsece-Lorraine question World War I American Committee for Armenian and Syrian Relief Interwar Period (1918-1939) American Express Company World War II American Field Service Select Series to Search: American Humane Association American Red Cross Charitable organization American Social Health Association Civil defense Animals Civilian participation INSTITUTE of MUSEUM Minneapolis **UNIVERSITY OF MINNESOTA** and LIBRARY SERVICES Public Library Contact macrefillumn edu with questions. Return to War Posters Project Home Page UNIVERSITYLIBRARIES Appropriate Use of Electronic Resources @1999-2002 University of Minmerota Libraries. All rights reserved.

Digital Preservation Repository – Search Result (May 2005)





Digital Preservation Repository – World War Poster Digital Image Example with Metadata



Knowledge Wins: public library books are free...

Title: Knowledge wins: public library books are free

• Creator: Smith, Dan. 1865-1934

Contributor: American Library Association

Period: World War I

Description: Soldier moving from trenches to city over bridge of

books

Subject Terms: World War, 1914-1918. United States. Posters.
 Libraries. American Library Association.

Series: War Posters [Patriotism]

Related Sites: (Relationship="IsPartOf")

http://digital.lib.umn.edu/warposters/

Medium: Poster; Dimensions: 71 * 48 cm

Holding: University of Minnesota Libraries

Provenance: Digital image created with IMLS support.

Published: U.S.; ALA; Designed and Printed by Thomsen-Ellis Co.

Language: eng

Record Number: msp01047

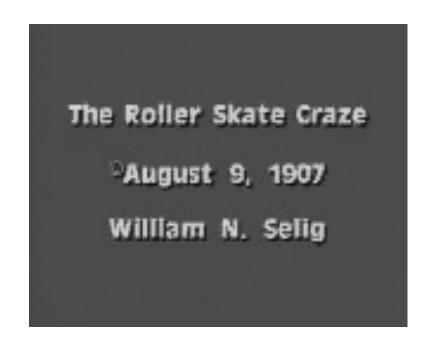
• Other Identifier: OCLC10586556

Copyright: Subject to US and International copyright laws.

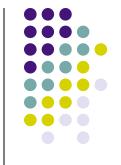


Digital Preservation Repository – LOC Digital Movie Digitization Example

- CREATED/PUBLISHED: United States: Selig, 1907.
- **SUMMARY:** During this short film the cameraman photographed many different people in varied walks of life, all of whom are wearing roller skates.
- NOTES: Copyright: Selig; 09Aug07, H97845.
- Duration: 0:18 at 16 fps.
- Source: used Niver, Kemp R., Early motion pictures, 1985.
- Received: 2/2000 from LC lab; ref prints and dupe neg; preservation; Paper Print Collection.
- SUBJECTS: Roller-skating. Actuality-Shorts.
- **RELATED NAMES:** <u>Selig. Paper Print Collection</u> (<u>Library of Congress</u>)
- Medium: 1 reel of 1 (18 ft): si., b&w; 16 mm. Ref print.
 1 reel of 1: si., b&w; 35 mm. Ref print. 1 reel of 1 (18 ft): si., b&w; 16 mm. dupe neg.
- CALL NUMBER: FLA 4410 (ref print); FEC 1863 (ref print); FRA 1535 (dupe neg)
- REPOSITORY: Library of Congress Motion Picture, Broadcasting and Recorded Sound Division, Washington, D.C. 20540USA
- DIGITAL ID: awal 1396 urn.hdtloc.mbrsmi/awal.1396 http://hdl.loc.gov/loc.mbrsmi/awal.1396



Digital Preservation Repository – Technical Information



Digital Preservation Process

- State-of-the At Digital Cameras
- Scanning
- Wrap digital reproduction and digitized content with selfidentifying metadata

Technology Standards Used

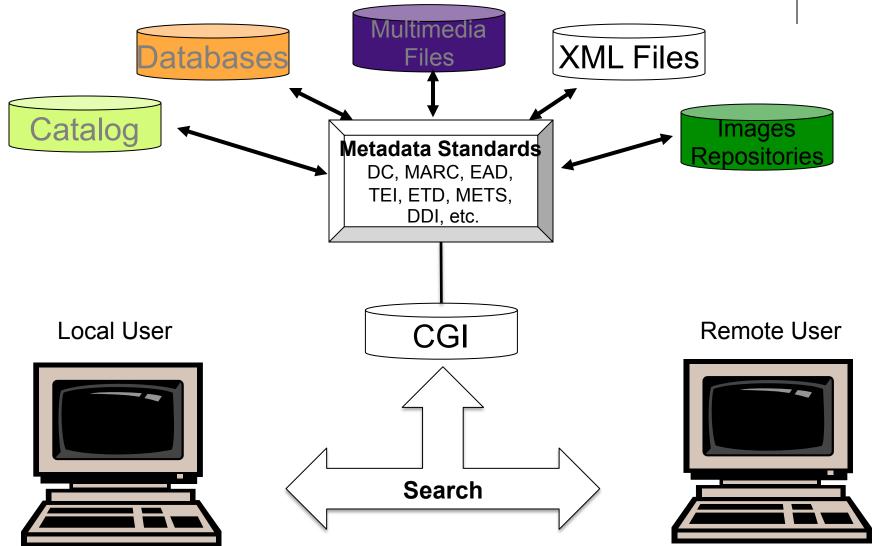
- Z39.50 protocol standard
- XML, SGML, TEI, ETD METS, DC, DDI, MARC, MARCXML, DocBook, RDF, MODS, and other metadata standards

File Formats & Special Viewers

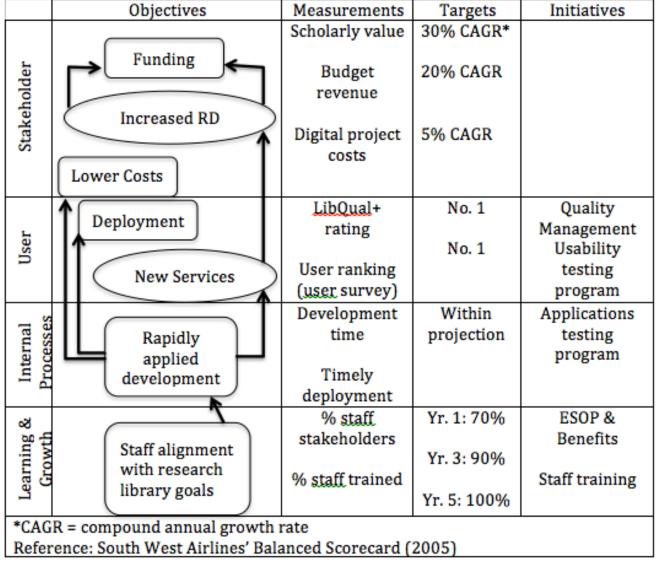
- Sound Recordings
 - .ra, .ram, .mp3, .wav
- Text and Page Images
 - .tif, .tiff, .pcx, .pdf, .sid, .sgm
- Maps
 - .sid, .jp2
- Prints and Photographs
 - .tif, .tiff
- Video
 - .mpg, .mpeg, .mov, .rm, .ram

Providing Access – Z39.50 compliant Common Gateway Interface (CGI)





An Illustrative Research Library Business Model





Areas of Interests – Research Libraries



- Are you educating your users on copyright issues along with your open access and digitization projects?
- How will your current data storage infrastructure handle current and future digitization projects?
- Are you and your partners' digitized assets and digitization projects protected against disaster?

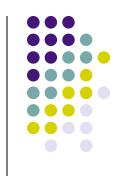
Areas of Interests – Research Libraries



- Google Library Project
 - Current library digitization project
- Google Scholar
 - Scholarly publication search
- Google Print
 - Allows content owners to publish content
- Google Video
 - Multi-video database serch
- Yahoo! Search Creative Commons

Reference: Technology Review, The Infinite Library (May 2005). http://www.technologyreview.com/featuredstory/404002/the-infinite-library/





 Can you envision combined semantic interoperability and data visualization of enhanced data, image, and multimedia search?

References

- National Diet Library
- Creative Commons
- Science Commons
- Library of Congress American Memory
- U. Minn, Univ. Libraries
- Los Alamos National Library
- Council on Library and Information Resources
- Technology Review

- FSU D-Scholarship Repository
- AHDS Case Studies
- MetaArchive
- LOCKSS
- THINKMAP
- JISC i-skills project
- eWeek, ComputerWorld, Communications in ACM, Triangle Tech Journal
- Forrester

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- Eric Lease Morgan
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 Please send comments, suggestions, and provide feedback to <u>psmith@moc.edu</u>