

Toward a User-Centered Digital Library

Virtual Collections at UCLA

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"Simply displaying collection objects, considered useful for informal learning in some way or another online, will no longer do."

Digicult 4: October 2003

Interactive Digital Library Outline



- < 1 > Introduction: Digital Library interactivity concepts (5 minutes, HB).
- Technical concepts and demonstration Save of Virtual Collections. A bridge to learning systems: (15 mins, CAF)
- < 3 > Production and design implications for teaching collections and virtual communities. (10 mins, HB)

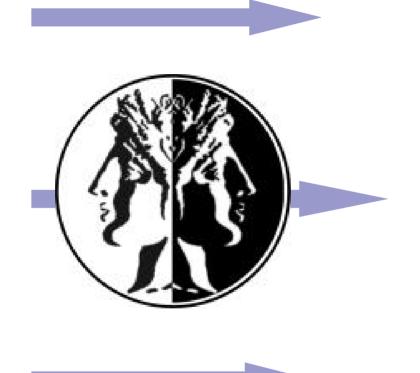
Digital Libraries In a Time of Transition



DIGITAL COLLECTIONS

DISCOVERING FORAGING LEARNING

CUSTODIAN-SELECTED COLLECTIONS



USABLE
DIGITAL
COLLECTIONS

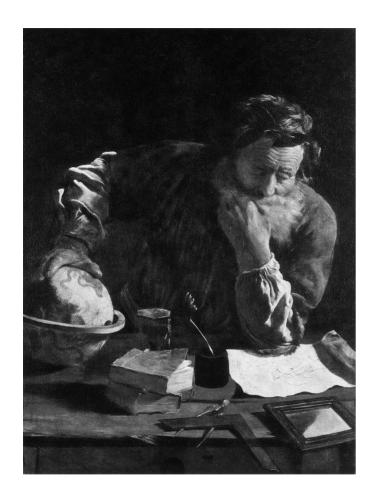
TEACHING

CMS
INTEGRATION

USER-SELECTED COLLECTIONS

Reclaiming a Role for Libraries





The web has changed the relationship between learning and libraries.

How can digital libraries use the Web to add value to the experience of using library resources?

Ensuring the Survival of New Scholarship



Expectations for digital libraries

Experimental

< new, evolving, untested with users >

Open-ended

< objects have life-cycles >

Interactive

< user experience is enriched >

Software-intensive

< cost of tools and back-end support >

Executive Summary of New-Model Scholarship: How Will It Survive?

Abby Smith, CLIR publication, March 2003

Beyond the Shopping Cart: The Experience of Ownership



Virtual Collections Resemble Commercial Web Services

http://www.expedia.com/

http://eat.epicurious.com

http://www.ebay.com



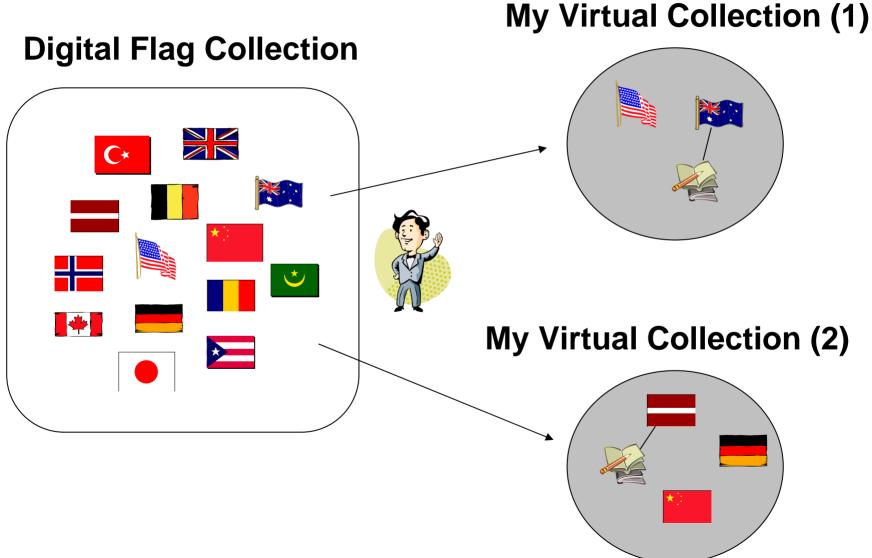


Digital Libraries will be distinguished by the Services they provide.

Virtual Collections Is a Service.

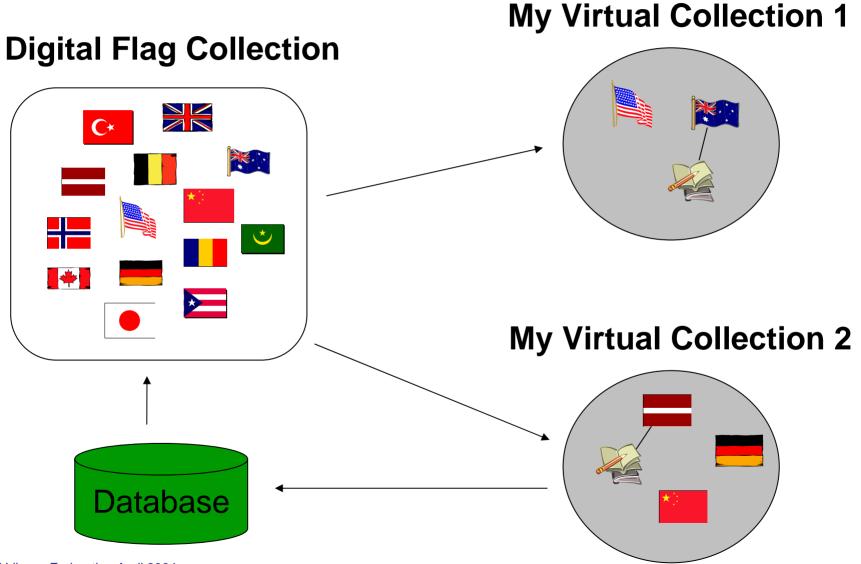
What Are Virtual Collections?





What are Virtual Collections?

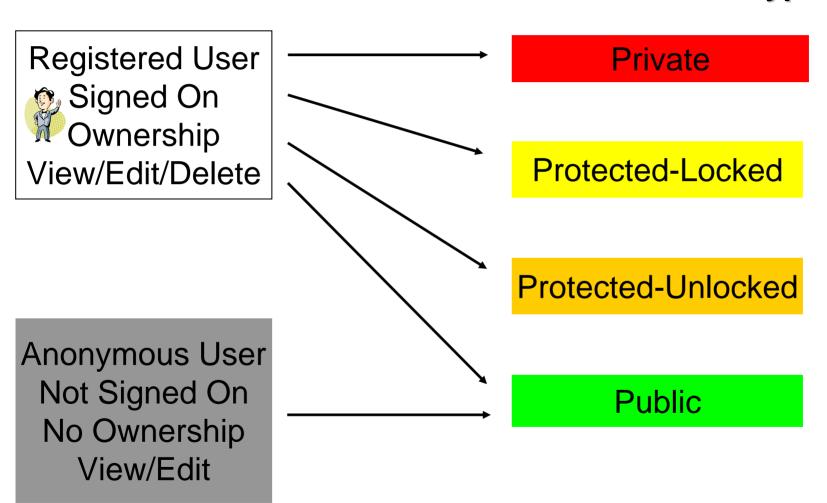




Users Create Virtual Collections



Virtual Collection Types



Virtual Collection - User Access Model

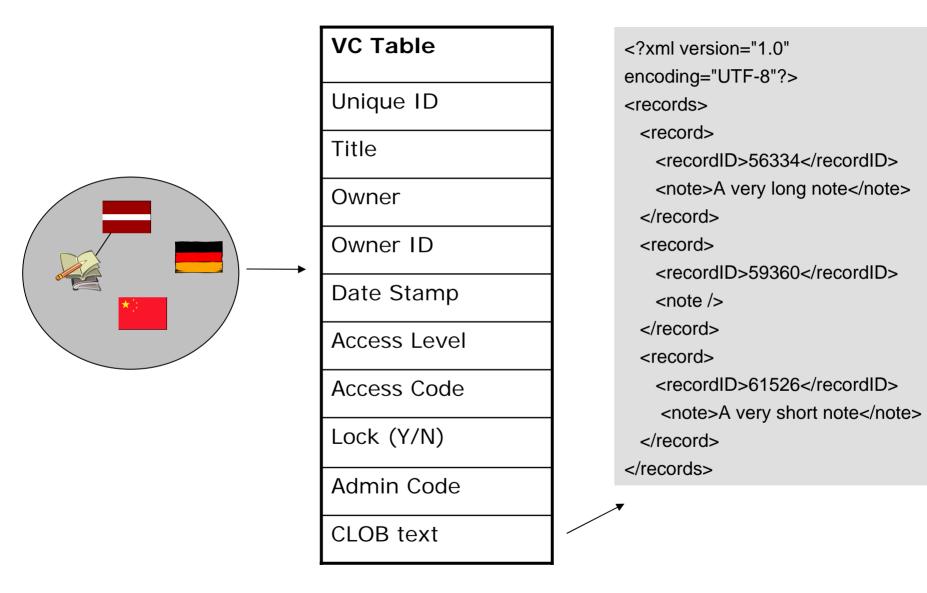


Collection State	View	Edit
Private	No	No
Protected Locked	Requires Password 1	Requires Password 2
Protected Unlocked	Requires Password 1	Requires Password 1
Public	Yes	Yes

Note: The Owner of a Virtual Collection has full View/Edit/Delete Rights

Virtual Collection Architecture





Using Virtual Collections in Context



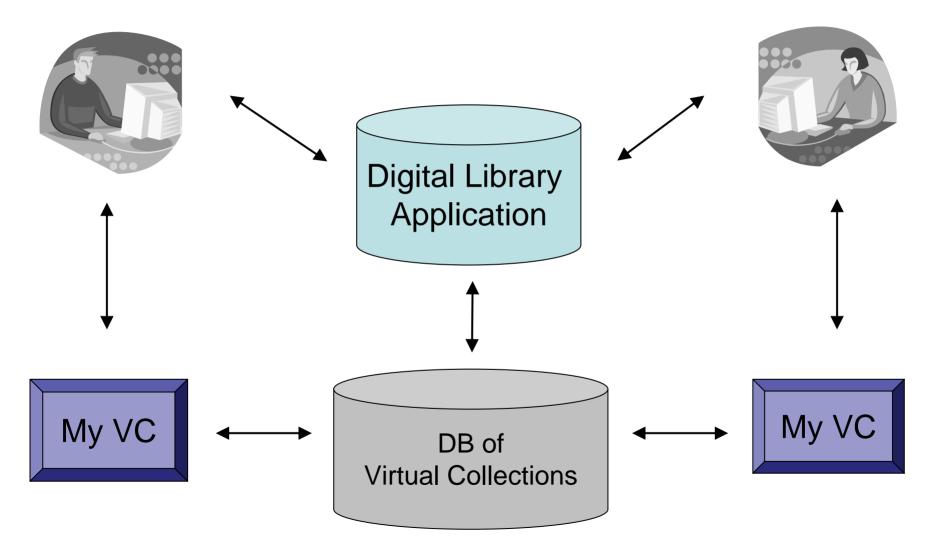
The Sheet Music Consortium

http://digital.library.ucla.edu/sheetmusic

Rat Spinal Cord Image Archive

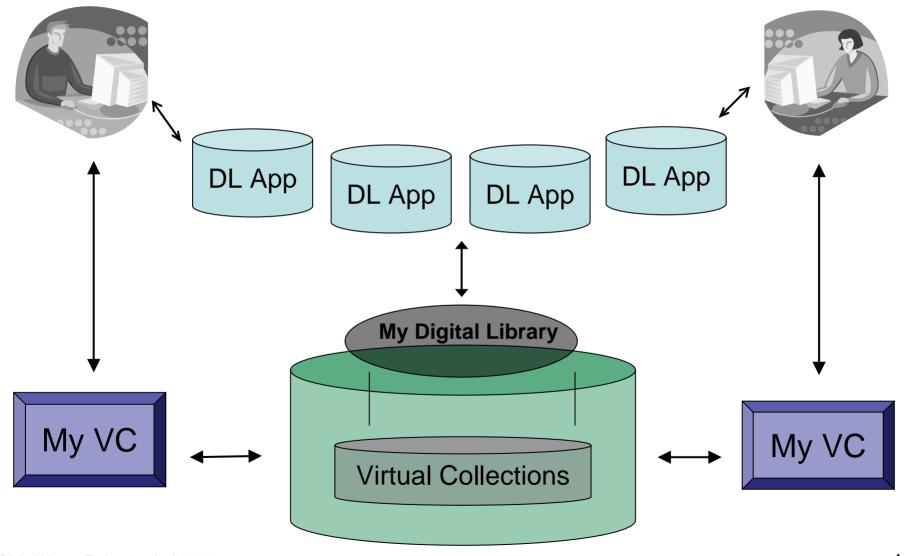
http://digidev.library.ucla.edu/ratscia

Current Architecture



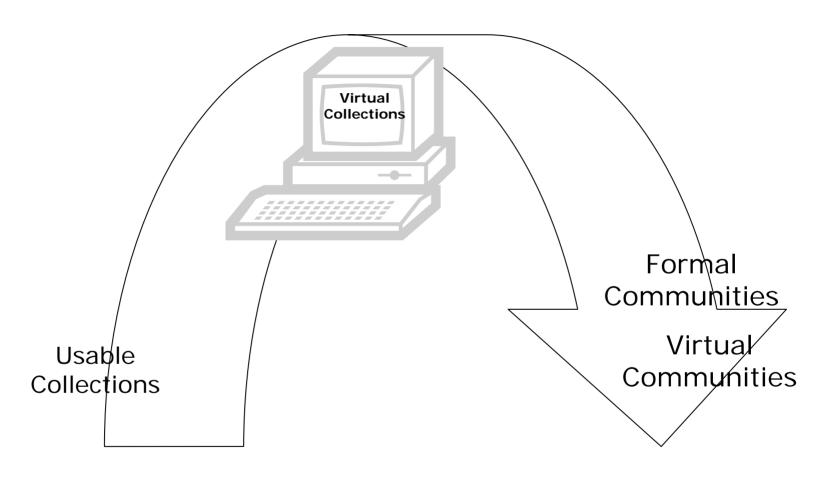
Future Architecture







Connecting Users to Collections



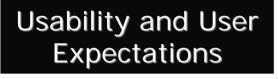


Virtual Collections as a Bridging Technology: Implications for Digital Collection-Building

- Change criteria for acquisition and selection:
 Projects respond to user needs and preferences.
 User-driven, not provider-driven.
- Find the most appropriate subject matter to leverage features and benefits of Virtual Collections.
- Form new alliances with CMS users (faculty and students) who need organized collections.
- Attract virtual communities of scholars and researchers.

Challenges for User-Driven Digital Libraries





Producing Collections for Targeted Audiences

- (1) Managing user expectations.
- (2) Matching standard features to user needs.

(1) Learners and teachers as primary VC users?

(2) Or focus on research agendas?

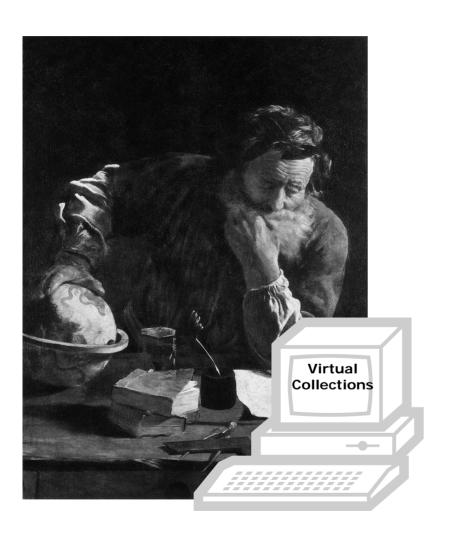
Teaching Collections: Criteria for Testing Relevance and Longevity



- Plan to use in class (will teachers use the web?).
- Critical mass (# of objects = 100 >?).
- Permanent collection of value beyond this class.
- Is the material unique (not available on the web already).
- Can departments create digitized material and metadata, or will library staff have to do it for them?
- Do department staff buy into standards for metadata and digitization?
- Can the department provide a project manager?
- Will teachers accept a standard interface and viewer?

Virtual Collections - Virtual Communities: The Search for Contextual Mass





Heritage institutions might benefit from fostering virtual communities....

Digicult 2004

Writing on archival materials

References



"Simply displaying collection objects, considered useful for informal learning in some way or another online, will no longer do."

Digicult: Thematic Issue 4 (October 2003)

"Academic libraries support and promote research, learning, and cultural engagement. In carrying out this role, they are inherently Janus-faced. Their gaze in one direction is focused on assembling, curating, and supporting the use of scholarly information; in another, it is fixed on tracking what information faculty, students, and lifelong learners actually need and on how and where they prefer to discover, locate, and use it."

Dan Greenstein in Brockman, William S. et al. Scholarly Work in the Humanities and the Evolving Information Environment, CLIR 2001: (pub. 104) http://www.clir.org/pubs/reports/pub104/contents.html

Executive Summary of New-Model Scholarship: How Will It Survive? Abby Smith, CLIR Symposium on Learning and Libraries (April 13, 2004): http://www.clir.org/registration/symp2004.html

Martha L. Brogan, A Survey of Digital Library Aggregation Services, Digital Library Federation, Council on Library and Information Resources, 2003.

http://www.diglib.org/pubs/brogan/

Borgman, Christine L:

Challenges in Building Digital Libraries for the 21st Century, in Digital Libraries: People, Knowledge, and Technology (5th International Conference on Asian Digital Libraries, ICADL 2002). Singapore, Springer The Interaction of Community and Individual Practices in the Design of a Digital Library, in Sugimoto, S. (ed). Proceedings of the International Symposium on Digital Libraries and Knowledge Communities in Networked Information Society, March 2004, University of Tsukuba. http://www.kc.tsukuba.ac.jp/dlkc/

Digicult Thematic Issue 5: Virtual Communities and Collaboration in the Heritage Sector. http://www.digicult.info/

References



Problems of reconciling digital library environments with learning object standards are discussed in two working papers: Clifford Lynch and Neil McLean, "Interoperability between Information and Learning Environments—Bridging the Gaps," A Joint White paper on behalf of the IMS Global Learning Consortium and the Coalition for Networked Information. Draft version of June 28, 2003: 13p.; at http://www.imsglobal.org/DLims white paper publicdraft 1.pdf;

and by Raymond Yee, "Enhancing Interoperability between Digital Libraries and Educational Technology via XML

Crosswalks." http://www.cni.org/tfms/2003a.spring/abstracts/PB-Enhancing-Yee.html