



Teaching Digital Preservation in a Digital Curriculum Laboratory

<http://calliope.simmons.edu/dcl>

Digital Preservation 2012
NDIIPP/NDSA Meeting
July 24, 2012

Terry Plum
Simmons GSLIS
terry.plum@simmons.edu

Grants

The Digital Curriculum Laboratory (DCL) began in 2008 and was developed by the Simmons Graduate School of Library and Information Science with assistance from the following grants.



Simmons College: Pottruck Technology Resource Center Grant (2008)

Curriculum Technology Support Grant

This grant, while small, was critical in transforming the DCL from an inchoate idea to something more concrete. The financial support was used to develop formal plans for the DCL which allowed the team to approach other agencies for more substantial funding.

IMLS Grant (2009)

Laura Bush 21st Century Librarian Program

The current demand for cultural heritage professionals who can successfully manage digital resources and provide online services in museums, libraries, and archives is strong and will increase significantly in the future. GSLIS (the Graduate School of Library and Information Science) at Simmons College, in partnership with eight New England cultural institutions, has received funding from IMLS (the Institute for Museum and Library Services) to develop a new Cultural Heritage Informatics curriculum. Key components in this innovative curriculum are: courses that form the basis for education of a new type of information expert, the cultural heritage professional; intensive, hands-on internships at partner sites, and a digital curriculum laboratory that equips students with the specialist skills and evolving attributes demanded by the digital convergence environment.



NHPRC Grant (2010)

Building a Simmons Archives Preservation Digital Curriculum Laboratory

The current demand for cultural heritage professionals who can successfully manage digital resources and provide online services in museums, libraries, and archives is strong and will increase significantly in the future. GSLIS (the Graduate School of Library and Information Science) at Simmons College has received funding from NHPRC (the National Historical Publications and Records Commission) to build a Digital Curriculum Laboratory, one key component in offering a new Cultural Heritage Informatics curriculum. Partnering with GSLIS in this grant are New York University and the University of Wisconsin at Milwaukee.



Applications

These applications are maintained on the DCL for students to use to complete assignments and for other authorized users to experiment with on their own. For example, you may want to add images to Omeka or add documents to DSpace. Click on the application name to get access instructions.

This is a sandbox environment. There is nothing private about the DCL. The DCL is not the place to upload personal pictures or personal papers.

Alfresco	Alfresco is an Open Source Content Management System that includes document and records management.
Archivists' Toolkit	The Archivists' Toolkit is an open source archival data management system.
Archon	Archon is software for archivists and manuscript curators that publishes archival descriptive information and digital archival objects on a web site.
Collective Access	Collective Access is a highly configurable cataloguing tool and web-based application for museums, archives and digital collections.
DSpace	An Open Archive Initiative (OAI) - compliant open-source software released by MIT for archiving eprints and other kinds of academic content.
EPrints	EPrints is a free and open source software package for building open access repositories that are compliant with the Open Archives Initiative Protocol for Metadata Harvesting.
Fedora Commons	Fedora Commons Repository is a general-purpose, open-source, digital-object repository framework.
Greenstone	Greenstone is a suite of open-source software for building and distributing digital library collections.
Omeka	Omeka is a web-publishing platform that can be used to make online exhibits of library, museum, and archives material.
Resource Space	ResourceSpace is an Open Source Digital Asset Management (DAM) system.

Collective Access

[View](#) [Edit](#)

Status: Available

Access

The Digital Curriculum Lab has four instances of CollectiveAccess, each installed with a different metadata profile. Further, each instance has a public facing companion, demonstrating how the collections would look to the general Internet user. Our CollectiveAccess instances can be launched by using the links below.

[CDWA Lite Profile](#)

[CDWA Lite Profile – Public](#)

[Coney Island](#)

[Coney Island – Public](#)

[DC Profile](#)

[DC Profile – Public](#)

[VRA Profile](#)

[VRA Profile – Public](#)

Login Information

user name: imls

password: dcltech

Resources

[Collective Access FAQ](#)

Login Information

user name: imls

password: dcltech

Resources

[Collective Access FAQ](#)

Who's Using CollectiveAccess?

- [Exemplars](#)

Metadata Standards

- CDWA Lite
- Coney Island History Project
- Dublin Core
- Visual Resources Association Core

Documentation and Support

- [A Tour of CollectiveAccess](#)
- [Cataloging in CollectiveAccess](#)
- [Building Advanced Search Forms](#)
- [CollectiveAccess Wiki](#)
- [CollectiveAccess Support Forum](#)

The Technical Details

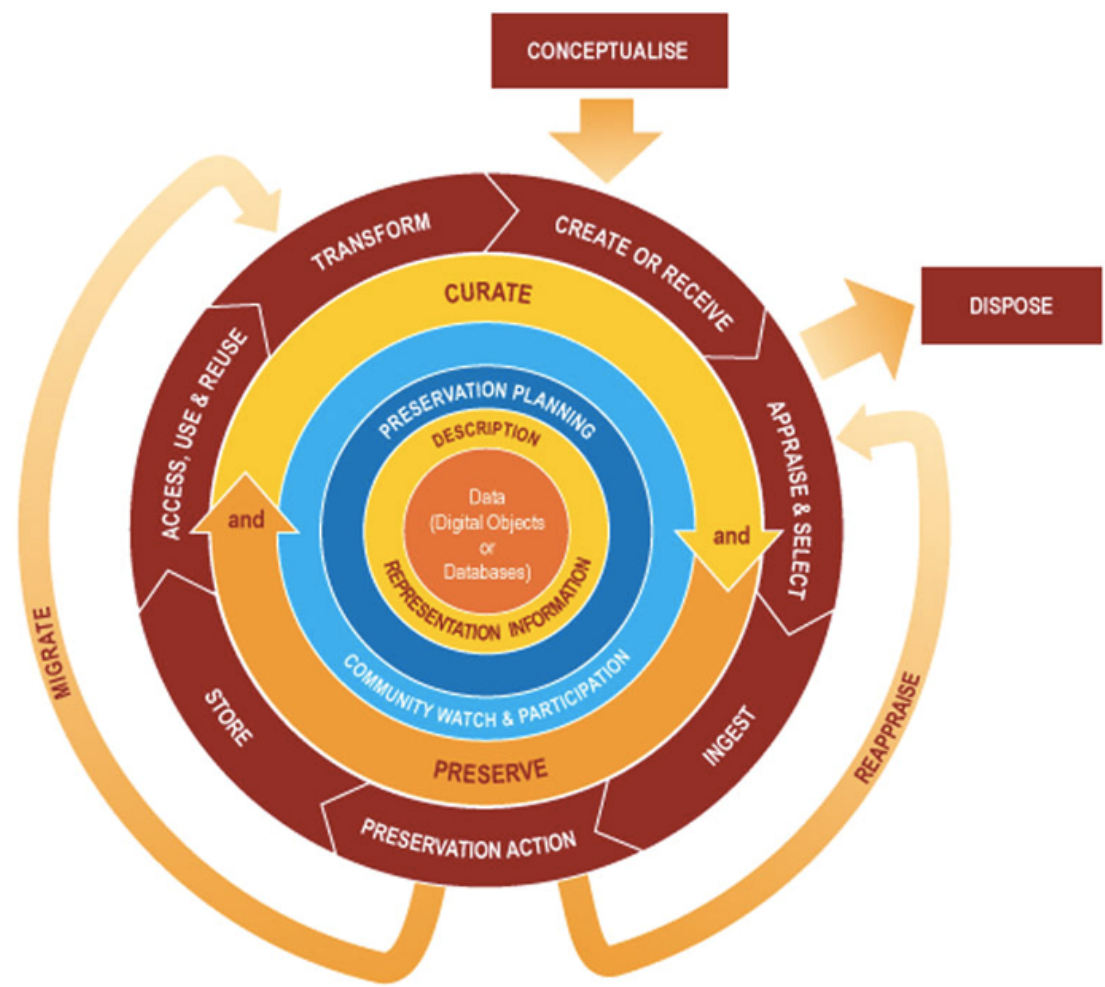
- [Building System Installation Profiles](#) – This document explains how to create a custom profile for a CollectiveAccess installation that will use your institution's existing standards.
- [Installing CollectiveAccess](#) – This page explains how to install Providence, the main CollectiveAccess cataloging tool. Instructions can also be found on the wiki for installing Pawtucket, the web front-end (i.e., the public facing portion of Collective Access).

Tour: <http://www.collectiveaccess.org/tour>

DCC Curation Lifecycle Model Exercises

View Edit

The Digital Preservation Collection organized under the Digital Curation Centre's Curation Lifecycle Model. Click on a lifecycle component to access the exercises associated with that part of the model.



- ### DCC Exercises
- Archiving and Curating Personal Digital Files
 - Assessing Robustness of File Formats
 - Automating a Workflow
 - Building a Web Archive
 - Creating Manifest Files for Digital Transfers
 - Data Management Planning
 - Digital Preservation Tools and Services
 - DRAMBORA
 - Emulators
 - Encapsulation
 - Extracting Metadata from Digital Files
 - Migrating and Verifying Files
 - Policies for Digital Preservation
 - Preserving Personal Digital Files
 - Working with Submission Information Packages



Digital Curriculum Lab – Preservation Exercises: Ingest

Appearance People Modules Configuration Reports Advanced help Help

Contact My Account Logout

 Digital Curriculum Laboratory



Home

Applications

Exercises

Scenarios

Resources

Content

Help

Create

Ingest Exercises

The Digital Curriculum Laboratory contains many exercises which illustrate the challenges inherent in digital curation and digital stewardship. The exercises are meant to give students realistic experience with manipulating digital objects through the use of both proprietary and open source tools. Additionally, critical thinking, analysis, and problem solving skills are emphasized throughout.

- Automating a Workflow
- Creating Manifest Files for Digital Transfers
- Encapsulation
- Preserving Personal Digital Files
- Working with Submission Information Packages

SIMMONS

Graduate School of Library
and Information Science

[Home](#)[Applications](#)[Exercises](#)[Scenarios](#)[Resources](#)[Content](#)[Help](#)[Create](#)

Encapsulation

[View](#)[Edit](#)

This exercise requires you to install the Xena application and use it to create Xena information packages.

Computing Requirements

To complete this exercise you need:

- A computer connected to the Internet (either Mac or Windows OS)
- Open Office software installed
- Administrator rights for the computer so you can install Xena software and other software that Xena requires

Your Tasks

1. Read carefully the documentation about Xena so that you understand what it aims to do. Start with the FAQs (<http://xena.sourceforge.net/faq.php>) and then check out the Xena wiki (http://sourceforge.net/apps/mediawiki/xena/index.php?title=Main_Page). Be sure to look carefully at the sections "Installing Xena and "Configuring Xena"
2. Make sure you know what outputs you expect Xena to produce
3. Download and install the Xena digital preservation software and relevant plug-ins (<http://xena.sourceforge.net/>). (A reminder: you may also need to install Open Office (<http://www.openoffice.org/>) which is required for Xena to work)
4. Select five files that Xena can handle (the file types that Xena accepts are identified in the documentation). The files should be of different file types. Process these files using Xena
5. Submit the Xena files you have created (or provide a link to them where they can be accessed) and a brief report on how Xena is useful for digital preservation purposes.

Exercise Category:

[Preservation](#) [DCC](#) [Ingest](#) [OAIS](#) [Ingest](#)



DCL - Uses

- Cultural Heritage Informatics track
 - Part of f2f masters program
 - Three courses

- Digital Libraries course
 - Part of f2f masters program
 - One course – lately using Omeka

- Digital Stewardship Certificate
 - Online post-masters certificate
 - Five courses chosen from nine possible

- GSLIS Archives Online
 - Online masters program
 - Twelve courses



Partners

- **Archives and Records Program**

- Department of Information Technology and Media
- Mid-Sweden University
- Härnösand, Sweden
- Karen Anderson, Director

- **Archives Program**

- History Department
- New York University
- Peter Wosh, Director

- **Archives and Records**

Management

- University College London
- London, UK
- Andrew D. Flinn, Programme Director

- **Archival Studies Program**

- School of Information Studies
- University of Wisconsin at Milwaukee
- Amy Cooper Cary, Director



Thanks from the DCL Project Team

Faculty & Administrators

- Jeannette Bastian
- Michele Cloonan
- Ross Harvey
- Martha Mahard
- Terry Plum

Staff

- Mary Bennett
- Maurice Bouchard
- Molly Duggan
- Linnea Johnson
- Rebecca Meyer
- David Scherer