Digital Preservation – Policies and Practices

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Digital Preservation

How much do you know about digital preservation?

Has any form of digital preservation been implemented at your institution?

Do you have institutional support for digital preservation?

Digital Evaporation

Something can be gone and you would never know it

Digital files are much more vulnerable than paper or film

Bit rot can destroy a file, must examine the file to verify

Miami University's situation

Scattered files

 ${\sf CONTENTdm}$

DSpace repository

miscellaneous files on servers and individual computers

Our first attempt - 2010

What was the digital preservation field like in 2010?

What we tried

Why we failed

Current Practices at MUL

Locally created content held on a variety of servers and hard drives

Preservation currently consists of periodic backups of some content

Use of CONTENTdm and DSpace for collections access

Digital Preservation Committee 2.0

Content and Files/projects lost

New management prompted revisiting our current practices

After five year gap, decision to start from scratch

Task Force created

Digital Preservation committee membership included representation from a variety of departments

Preservation

Digital Scholarship

Library Systems (IT)

Technical Services

Branch Libraries

Special Collections and Archives

Current Mandate

In 2015, our dean mandated that we make "recommendations as needed for short and long term planning, maintenance, updates, and changes to digital preservation policy and practice"

Determine the steps needed

Set priorities

Inventory of Digital Holdings

- What types of files do we have?
- Where did they currently live?
- How much do we have?
- What are they currently used for?
- How are they currently accessed and by whom?

We Found: Types of file content

Commercial databases, eBooks Scanned images, oral histories, finding aids, manuals Scholarly creations (published papers, slide decks, spreadsheets) Emails Born digital materials (donated materials; archives)

Locally created web sites

Three main types to preserve

- Purchased content (eBooks, commercial databases)
- Digitized content (scans of artifacts)
- Scholarly creative content (published papers)

We Found: Where do they live?

- On vendors' web sites
- University and library servers (CONTENTdm, DSpace, Omeka, WordPress)
- Network and cloud storage (Production drive, Google docs)
- Removable hard drives, flash/thumb drives
- CD-roms and DVDs
- Under people's desks (on personal work computers)

We Found: How much do we have?

- CONTENTdm: 700 GB
- Digital collections archival masters: 2 TB
- DSpace: 130 GB
- Other: 1 TB

We Found: Current Use

Commercial content - in place of print copies, patron research

Public display and access of digitized special collections and archives content

Digitization masters/archival storage

3D printer models - first creation, reprint, modifying

Scholarly repository/access

We Found: Current Access

Patrons through web interfaces

Clients mediated by staff

Staff projects

Staff - collections management and maintenance

Library Needs and Limitations

- The committee considered what local skills would be needed
- How stable is our funding, how broad is our skill base?
- Decided to go with a solution that provided more technical support rather than requiring in-house library technical expertise

Desired Solution Characteristics

- Listed out all characteristics
 - access (end user)
 - access (staff)
 - preservation tools
 - technology requirements
 - \circ support
 - \circ succession planning
 - costs
- Each member ranked characteristics based on importance average ranking used to determine priorities

Compared potential solutions

- Developed list of available solutions
- Ranked software on each of the features
- Decision matrix helped guide our discussions

Available Solutions

- Archives Direct
- ArchivesSpace
- Bepress digital commons
- BitCurator
- Box.com (A.K.A. Box.net)
- CLOCKSS
- CONTENTdm
- DSpace (locally hosted)
- DSpace Direct
- DuraCloud

- HathiTrust
- Local Gluster storage
- LOCKSS
- MetaArchive
- OCLC Digital Archive
- Preservica
- Portico
- Rosetta
- Widen Media Collective
- Zetta.net

Top Solutions: A Closer Look

Talked to vendors

Talked to user groups and product support teams (and read blogs & comments)

Asked for more information and demonstrations

Recommendations

- We summarized our findings
- Presented our recommendations to the Dean
- Purchased content Portico or LOCKSS
- Local content Preservica or MetaArchive

Moving Ahead, Holding Back

- Recommendation of Portico accepted and implemented right away
 - \circ no real competition
 - \circ simple to implement
 - o didn't require any change in library workflows
- Acceptance of Preservica took about a year
 - competing products sounded similar and overlapping
 - \circ additional research
 - comparison to tools from existing contracts (CONTENTdm/OCLC)
 - $\circ~$ increased staff support and buy-in
 - further costs analysis

Preparation for Implementation

- Metadata cleanup
- Preservation Policies
- Local best practices
- Works flows
- Staff roles and responsibilities

Questions?