

Digital Preservation Principles and Practice



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Community Context



Digital content program development

- **1960s:** National archives, data archives
- **1970s:** increasing interest and concern
- **1980s:** digitization developments
- **1990s:** library, museum, Web collections
- **2000s:** digital art, geospatial, e-science...
- **2010s:** research data, analog archives...

variations by nation, domain, size, complexity...

1996 PDI Report

Challenges:

- obsolescence
- migration
- legal issues
- infrastructure
- lack
framework

Preserving Digital Information

Report of the Task Force on Archiving of Digital Information

commissioned

by

The Commission on Preservation and Access

and

The Research Libraries Group

May 1, 1996

Ten Digital Curation and Preservation principles



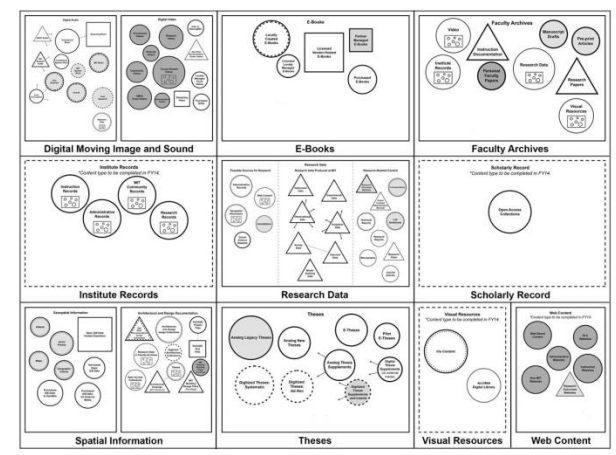
**DEVELOPED FOR THE
DIGITAL PRESERVATION OUTREACH
AND EDUCATION PROGRAM (DPOE)
THAT IS HOSTED BY THE
LIBRARY OF CONGRESS**

1. Identify the digital content within your scope of responsibility



COMPLETE AN EXPLICIT INVENTORY OF CONTENT THAT IS ALREADY MANAGED AND THAT IS ANTICIPATED

<http://libraries.mit.edu/preserve/about/digital/>



2. Specify the digital content you intend to preserve



**ESTABLISH AND APPLY CRITERIA
TO DETERMINE THE CONTENT
YOU NEED OR WANT TO PRESERVE**



3. Establish requirements for storing files in preservation formats



**DETERMINE THE FORMATS YOU
WILL ACCEPT AND THE
FORMATS YOU WILL PRESERVE**

Sustainability of Digital Formats

<http://www.digitalpreservation.gov/formats/>

4. Determine (and review) your best option(s) for storing your digital content



SPECIFY STORAGE REQUIREMENTS THAT ARE APPROPRIATE TO YOUR CONTENT, FEASIBLE, AND AFFORDABLE FOR YOU

National Digital Stewardship Alliance (NDSA) Storage Survey
<http://blogs.loc.gov/digitalpreservation/2013/06/ndsa-members-report-on-digital-storage-systems/>

5. Verify that our digital content is secure during day-to-day activities



**ADDRESS THE RIGHTS,
CONFIDENTIALITY, AND SECURITY
REQUIREMENTS FOR YOUR CONTENT**



6. Ensure that our digital content is prepared for an emergency



EXTEND YOUR DISASTER PLANNING PROGRAM TO EXPLICITLY INCLUDE DIGITAL CONTENT



7. Develop (and review) plans for managing your digital content over time



**ENGAGE IN ONGOING PLANNING
TO MOVE DIGITAL CONTENT ACROSS
GENERATIONS OF TECHNOLOGY**

Digital Preservation Management Workshop Online Tutorial

<http://www.dpworkshop.org/>

8. Define a standards-based framework to develop and manage your program



SPECIFY THE SCOPE, PURPOSE, OBJECTIVES, AND APPROACH OF YOUR TO GUIDE PROGRAM DEVELOPMENT

Model document for developing a framework document

<http://www.icpsr.umich.edu/files/ICPSR/curation/preservation/policies/dp-policy-outline.pdf>

9. Demonstrate that long-term access is the purpose of your program



**RAISE AWARENESS ABOUT THE BENEFITS
AND CHALLENGES OF PROVIDING
CONTENT IN 10, 20, 50 YEARS ..**



10. Ensure that the means to deliver digital content to users remains current



**LONG-TERM ACCESS NEEDS TO
LEVERAGE CONTEMPORANEOUS
TECHNOLOGIES**

Digital preservation relies upon proven technologies

Access relies upon current technologies

Digital preservation ensures access to current and future users

Digital Preservation is a Shared Responsibility



**COLLABORATION IS NOT ONLY
BENEFICIAL, IT IS ESSENTIAL FOR
ACHIEVING COMMON GOALS
ACROSS INSTITUTIONS AND
INTERNATIONALLY**

Collaboration to Clarify the Costs of Curation

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Collaboration to Clarify the Costs of Curation

Engagement

Tasks

- Engage stakeholders
- Raise awareness
- Organise meetings
- Promote Research & Innovation
- Build community network



Assessment

Tasks

- Assess cost models & strategies
- Examine good practice
- Analyse requirements
- Integrate components
- Produce guidance & briefing materials
- Setup costs exchange



Networking & Coordination



Affiliate Partners & Stakeholders

Enhancement

Tasks

- Examine and refine related concepts
- Value
 - Risk
 - Benefits
 - Sustainability
 - Economic Reference Model



JISC

Project Coordination

Tasks

- Project meetings
- Project reporting
- EC liaison
- Budget oversight
- Outputs QA



Reports for General Dissemination



Curation Costs Exchange



Reports for European Commission



Submission of Roadmap to the EC

Questions?

