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SI 675 Digitization for Preservation

Week 1 - Definitions and Issues

Today's Outline

Outline

- Preservation and Digitization
- Theoretical issues
- Why not just do it?
- Course logistics

"... the ability to define the essential characteristics of originals at a very high level allows us to determine whether the digital copy could truly 'stand in' for the original." Puglia/Rhodes (2007)

Digitization and Preservation

- 1 Outline
- 2 Digitization and preservation
- 3 Theory
- 4 Just do it?
- **5** Logistics

- Is digitization a preservation strategy?
 DISCUSS
 - ARL's policy perspective
 - Puglia & Rhodes' review
- Pros and Cons
- Challenges from various perspectives (technical, administrative, conceptual, etc.)

ARL Policy Statement

- 1 Outline
- 2 Digitization and preservation
- 3 Theory
- 4 Just do it?
- 5 Logistics

- Is digital reformatting copying?
- Consensus on best practices
- Progress on metadata
- Lots of action at various levels
- ARL will act as catalyst

"The time has come to adopt digitization as a reformatting strategy for preservation."

ARL, June 2004

Challenges and Issues

- 1 Outline
- 2 Digitization and preservation
- 3 Theory
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- 5 Logistics

- What are essential characteristics?
- Relatively low bar
- Fixed approaches
- Device independence
- Relationship to preservation

"It is a little humbling to look back and admit that we are still asking many of the same difficult questions that we were asking over a decade ago." Puglia/Rhodes (2007)

Sources -- Technology -- Purpose

Source Characteristics

- Condition
- Visual complexity
- Size
- Format

Technology Capabilities

- Engineering rigor
- Sensory quality
- Software support
- Processing speed



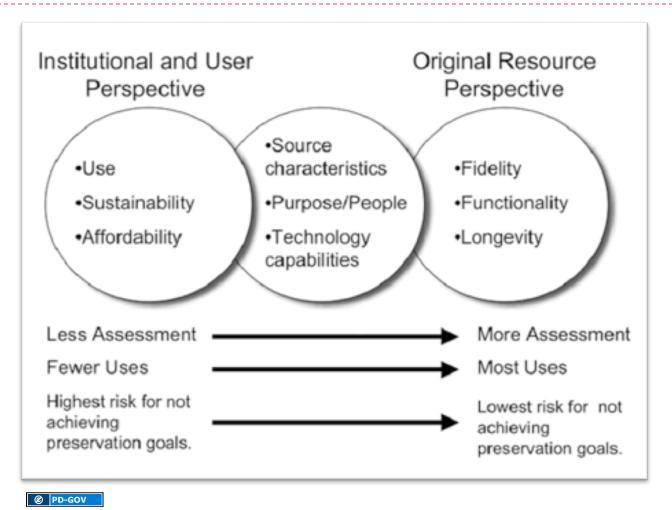
- Protect
- Represent
- Transcend



These relationships define quality, cost, and usefulness.

[Conway 2000]

Perspectives on Products



[Puglia & Rhodes 2007]

Perspectives on Transformation

1. Copying

Contrast with photocopying and microfilm

2. Faithful reproduction

Quality and integrity

3. Representation

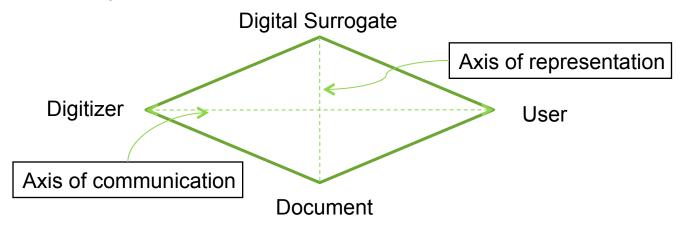
New media communication

"The trick ... is to produce a new artifact which preserves those features of the original that are essential to the purposes for which the copy is being made."

[Levy 1998]

Representation

- "...representation is always *of* something or someone, *by* something or someone, *to* someone."
 - Intentionality [camera | scanner]
 - Processes [darkroom | Photoshop]
 - Materiality [content | artifact]



[Derived and adapted from: W.J.T. Mitchell 1990]

Materiality and Meaning

- Some meanings not translated into digital form [Koltun 1999]
- ► Formerly joined materiality and meaning now result in 'ephemeral ghost' [Sassoon 2004]
- Photography and digitization share the "illusion of transparency and neutrality" [Schwartz 2000]
- "Original" is fiction: surrogate may be superior [Mitchell 2003]
- User behavior and experience are now key defining principles [Cameron 2007]

Remediation and Re-presentation

- "Our culture wants both to multiply its media and erase all traces of mediation..." [Bolter & Grusin 1996]
 - Transparency is goal
 - Hypermediacy: presence of old in new gives a sense of multiplicity
 - Technologies of rendering (making visible) are tools for mediating mediation
 - "The materiality of the digital acts as a testimony to its own history and origin, and hence authenticity." [Cameron 2007]

Archival Properties

Continuum of archival values added

Derived from source [significant properties]

Embedded through processes [recordness]

Validated by use [substitution]

At what point does the digitized become an archive?

• Archivisation [Nesmith 2002]

Provenance [Cook 2001]

Integrity [Duranti 1995]

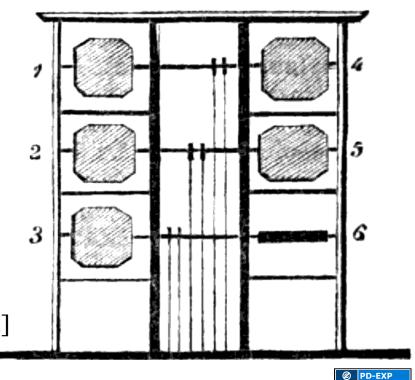
What is Preservation?

Preservation is the creation of digital products worth maintaining over time.

Values

- Transcendence
- Transparency
- Persistence
- Context

[Visual Telegraph, London to Deal, 1794]



http://en.wikipedia.org/wiki/File:Murray_Shutter_Telegraph_1795.png

Why Not Just Do It?

- 1 Outline
- 2 Digitization and preservation
- 3 Theory
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- Smith, Why Digitize?
 - "Much is gained by digitizing, but permanence and authenticity, at this juncture of technological development, are not among those gains."
- Migration is a change process
- Tampering is too easy and not detectible

Why Not Just Do It?

- 1 Outline
- 2 Digitization and preservation
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Erway/Schaffner

- "We must stop our slavish devotion to detail; the perfect has become the enemy of the possible." (p. 6)
- Access wins
- Selection is done
- Iterative processes
- Programs not projects
- Describe chunks
- Quantity over quality
- Widen discovery
- Creative fund raising

Course Concepts

- 1 Outline
- 2 Digitization and preservation
- 3 Theory
- 4 Just do it?
- **5 Logistics**

- 1. Issues at stake with digitization
- Imaging guidelines
- 3. Scanning parameters
- 4. Text digitization (OCR/Markup)
- 5. Color management
- 6. Project management
- 7. Metadata for images

Course Logistics

- 1 Outline
- 2 Digitization and preservation
- 3 Theory
- 4 Just do it?
- **5** Logistics

- First assignment
- Other assignments & grading
- Field trip to DCU at UM

References (1)

- Association of Research Libraries, *Recognizing Digitization as a Preservation Reformatting Method*, June 2004. http://www.arl.org/bm~doc/digi_preserv.pdf
- ▶ Bolter, J. D. and R. Grusin. (1996) "Remediation." *Configurations* 4 (3): 311-358.
- Cameron, F. (2007) "Beyond the Cult of the Replicant: Museums and Historical Digital Objects Traditional Concerns, New Discourses," In *Theorizing Digital Cultural Heritage: A Critical Discourse*, ed. by F. Cameron & S. Kenderdine, pp. 49-75.
 Cambridge, MA: MIT Press.
- Conway, P. (2000) "Overview: Rationale for Digitization and Preservation." In *Handbook for Digital Conversion Projects: A Management Tool.* Edited by Maxine Sitts. Andover, MA: Northeast Document Conservation Center.
- Cook, T. (2001) "Fashionable Nonsense or Professional Rebirth: Postmodernism and the Practice of Archives," *Archivaria* 51 (Spring): 14-35.
- Duranti L. (1995) "Reliability and Authenticity: The Concepts and Their Implications," *Archivaria* 39 (Spring): 5-10.
- Erway, R. and J. Schaffner. (2007) *Shifting gears: Gearing up to get into the flow*. Dublin, OH: OCLC.
- Koltun, L. (1999) "The promise and threat of digital options in an archival age," *Archivaria* 47 (Spring): 114-135.

References (2)

- Levy, D. (1998) "Heroic Measures: Reflections on the Possibility and Purpose of Digital Preservation," Proceedings of Digital Libraries '98, Association of Computing Machinery.
- Nesmith, T. (2002) "Seeing Archives: Postmodernism and the Changing Intellectual Place of Archives," *American Archivist* 65 (Spring/Summer): 24-41.
- Mitchell, W.J.T. (1990) "Representation," In *Critical terms for literary study*, 2nd Ed., ed. F. Lentricchia and T. McLaughlin, 11-22. Chicago: University of Chicago Press.
- Mitchell, W.J.T. (2003) "The Work of Art in the Age of Biocybernetic Reproduction," *Modernism / modernity* 10 (3): 481-500.
- Puglia S. and E. Rhodes. (2007) "Digital Imaging How far have we come and what still needs to be done?" *RLG DigiNews* 11 (15 April).
- Sassoon, J. (2004) "Photographic Materiality in the Age of Digital Reproduction." In E. Edwards, ed., *Photographs, Objects, Histories*, 186-202. London: Routledge.
- Schwartz, J. M. (2000) "'Records of simple truth and precision:' Photography, archives, and the illusion of control," *Archivaria* 50 (Fall): 1-41.
- Smith, A. (1999) *Why Digitize?* Council on Library and Information Resources.

Thank you!

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