Building Digital Preservation Pathways at NEDCC

NORTHEAST
DOCUMENT
CONSERVATION
CENTER

BRICKSTONE SQUARE

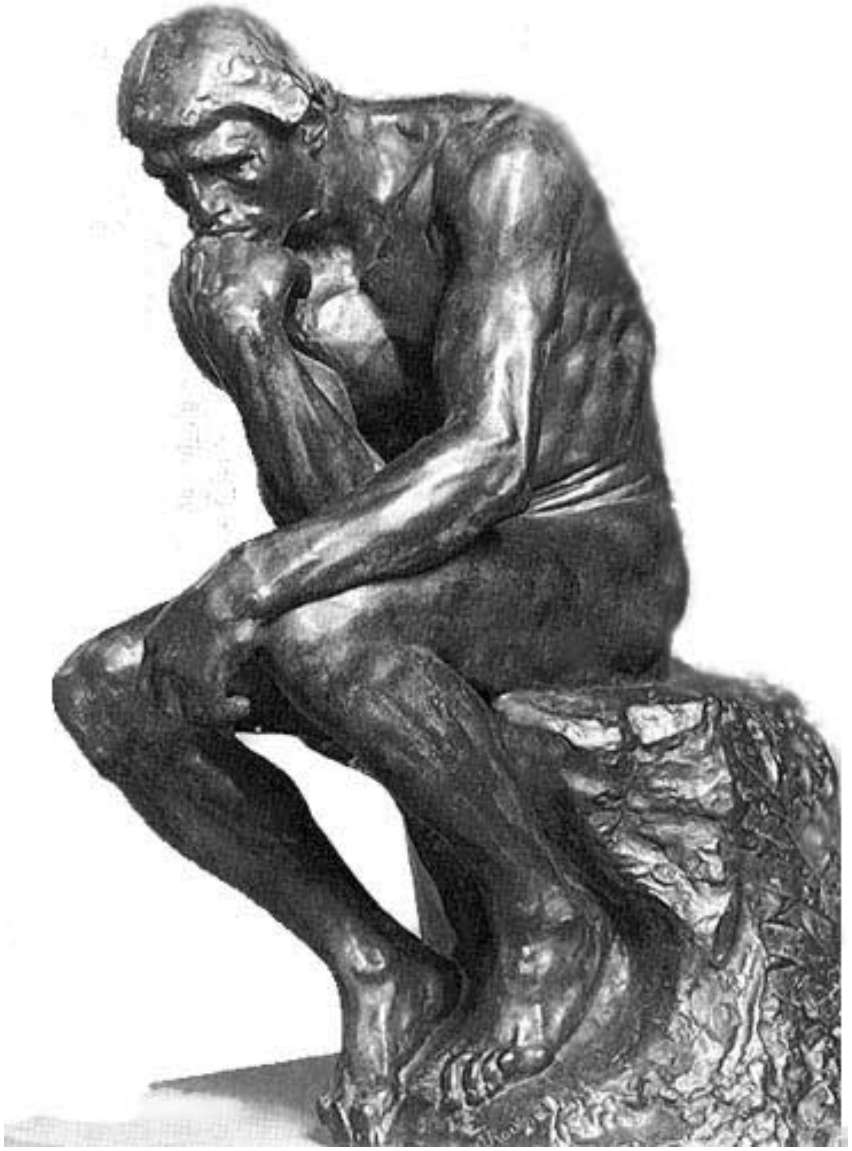
Eyewitness to War
The Democratic Arts

ACID FREE
1976 N-S
1976
S-Z 1979
1973
S-Z
P-Z 56
H-Z 1962
Weddings 1983
G-M 1983
N-Z 1981
A-D 1979
G-L 1980
M-P 1974
A-K 1984
Wedding 1981
1978
E-K
1975
C-G
1969
G-O
1978
S-Z
E-K
A-D
E-K 1979
Gaylord
TC1215
ACID FREE

2005 9 14

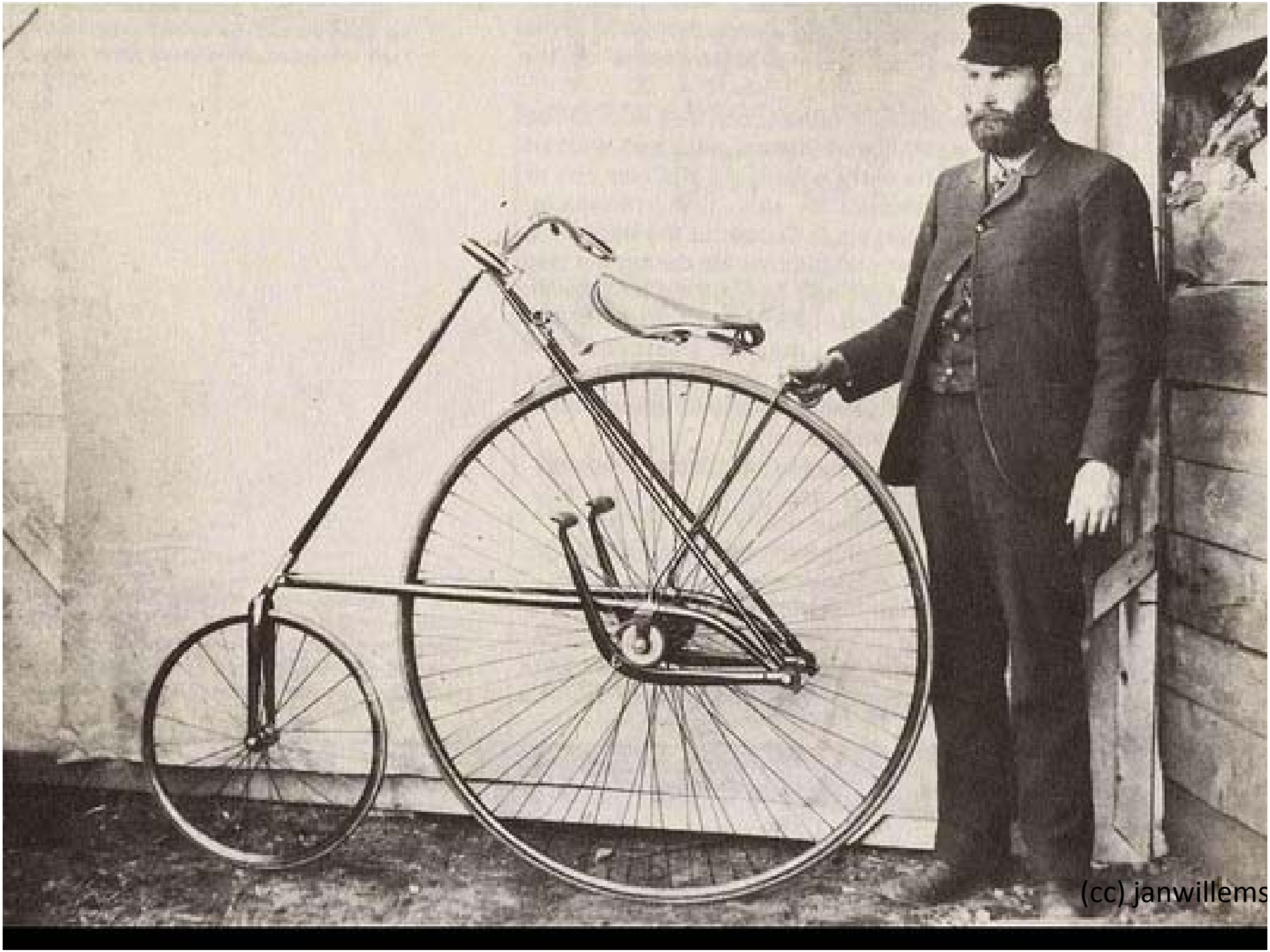
DIGITAL DIRECTIONS
NEW FOUNDATIONS
Creation • Curation • Use
The Tectonics of Digital Curation:
A Symposium on the Shifting Preservation and Access Landscape
Persistence of Memory
Digital Directions
Fundamentals of Creating and Managing Digital Collections
The NEW School for Scanning
Persistence of Memory
Sustaining Digital Collections
December 9–10, 2008
Chicago, Illinois
SAVE THE DATE
May 27–29, 2009
San Diego, California
SAVE THE DATE
Persistence of Memory: Stewardship of Digital Assets
Digital Directions

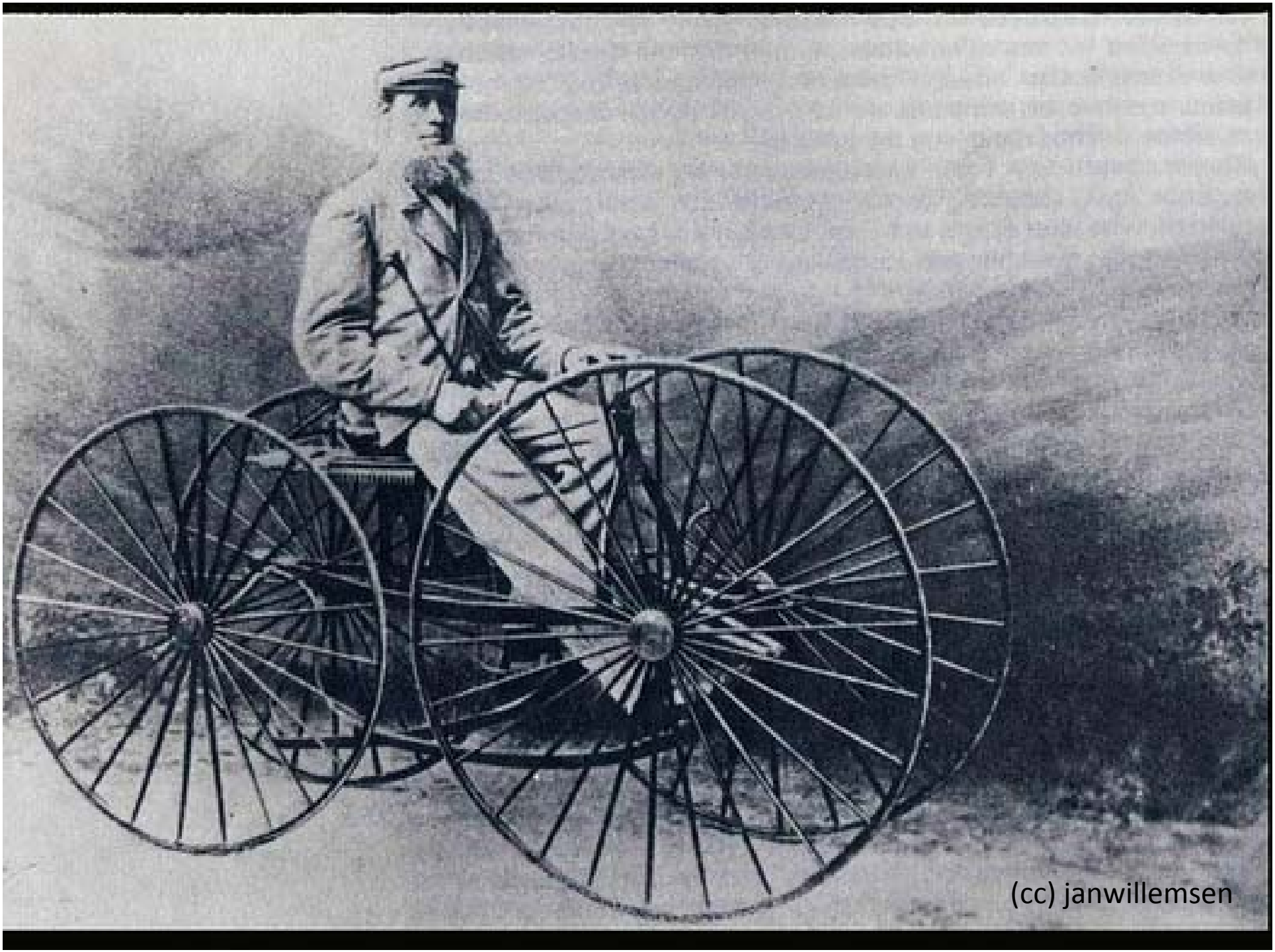
Lending of Digitized Books



Challenger: Understanding Our Clients and Collaborators…

…and Ourselves


(cc) janwillems

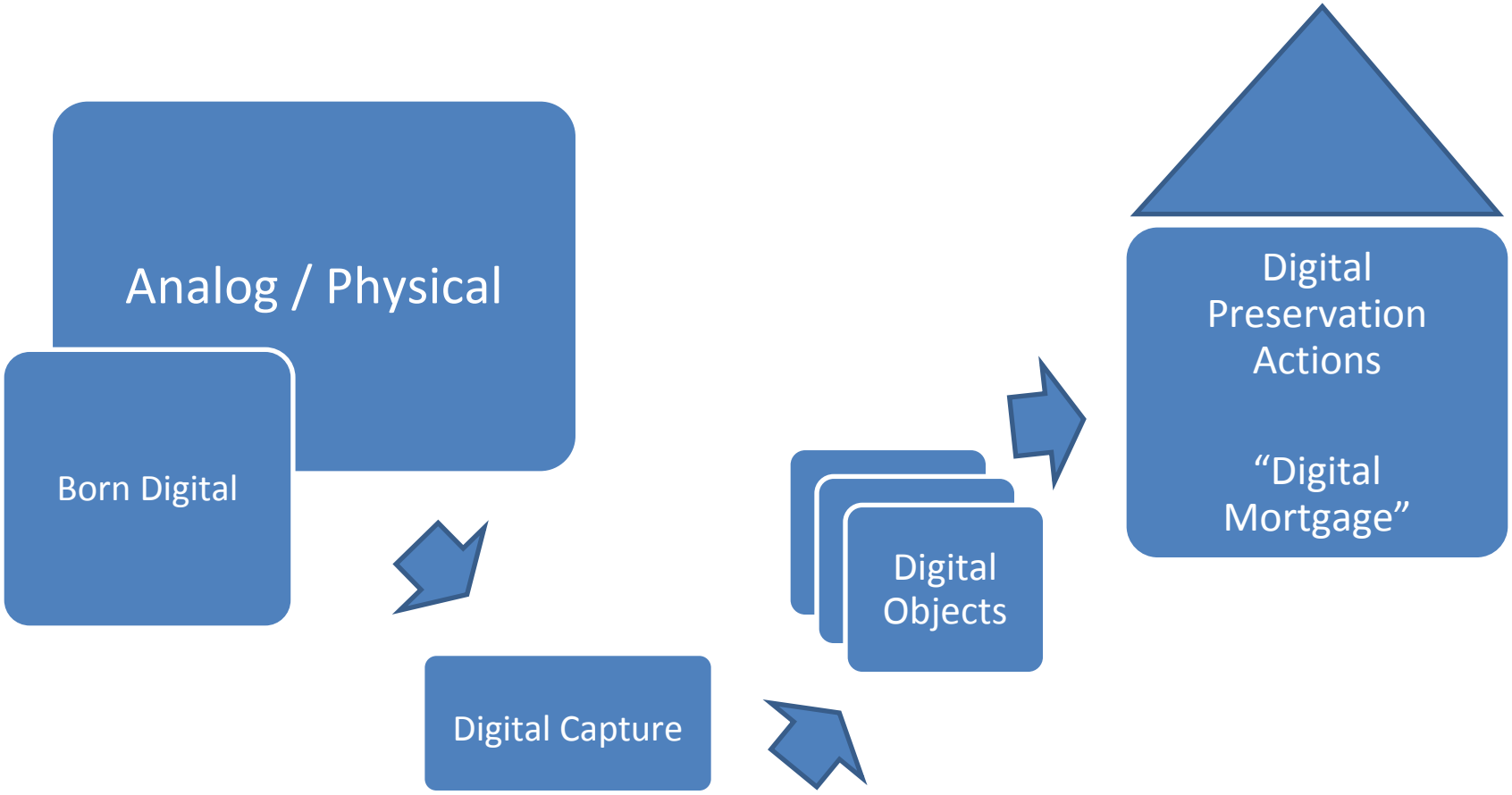

(cc) janwillemsen

(cc) Bas Kers

(cc) GmanViz

(cc) mwkelley

Making Choices



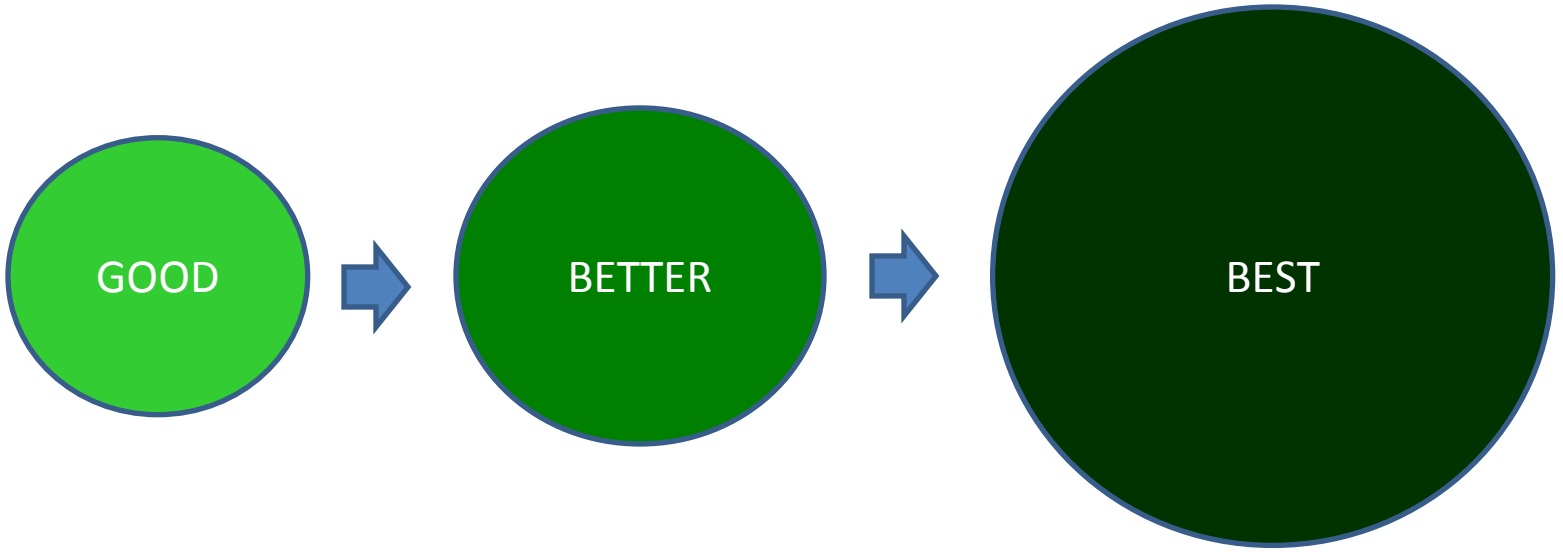
Digital Preservation ???

- Should I do this?
- How do I do this?
- What's the right "____"?
- Who should do this?
- How do I talk to "____" about doing this?
- How do I know if I made the right choice?

Primary Areas of Concern

- Standards and best practices
- Workflows and staffing
- Storage for preservation
- Rights and usage
- Funding

How we answer…



(cc) lbsterling

Resources

- Start with “The Classics:
  - NISO’s A Framework of Guidance for Building Good Digital Collections
  - CRL’s Trustworthy Repositories Audit & Certification: Criteria and Checklist
- Consider some new additions to the pack…

Glossary | Participants | Contact Us

GO

Federal Agencies Digitization Guidelines Initiative

Your Comments
Submit comments on guidelines or on our digitization efforts in general.

Home | About | Guidelines | Resources | Review Process | News & Events

About This Initiative

Started in 2007, this is a collaborative effort by federal agencies to define common guidelines, methods, and practices for digitizing historical content. As part of this, two working groups are studying issues specific to two major areas, Still Image and Audio Visual.

Learn more about the initiative »

Still Image Working Group

This group is involved in a cooperative effort to develop common digitization guidelines for still image materials.

Audio-Visual Working Group

The goal for this working group is to identify, establish, and disseminate information about standards and practices for the digital reformatting of audio-visual materials.

Digitization Guidelines

Audio Digitization System Performance

Draft for Public Comment | Comment period closes April 15, 2012

This document discusses the relevant metrics and measurement methods for analog-to-digital converters. Future performance-related documents will discuss the problem of interstitial errors, i.e., accidental loss or transformations of audio samples within the digitizing system before the data stream is written to file.

Minimal Descriptive Embedded Metadata in Digital Still Images

Reviewed and Recommended by Working Group | March 23, 2012

Guidelines created by the EMDaWG (Embedded Metadata Working Group) of the Smithsonian Institution and recommended by the Still Image Working Group. This document defines the minimum proposed descriptive embedded metadata for digital still images.

Embedding Metadata in Broadcast WAVE Files

Draft for public comment | Comment period closes February 21, 2012

Revision to the guideline for metadata to be embedded in Broadcast WAVE files that reproduce historical and cultural heritage digital sound recordings.

Technical Guidelines for the Still Image Digitization of Cultural Heritage Materials

Updated by Working Group | August 24, 2010

Creation of Raster Image Master Files represents shared best practices

Print Subscribe Share/Save

News & Events

Information or Artifact? Four-part blog on digitizing books and photos
October 17-20, 2011

Evaluating Still Image Digitization and Digitization Equipment
(PDF, 2.5 MB) | August 16, 2010

Information Standards Quarterly article
(PDF, 528 KB) | Spring 2010

Federal Computer Week article
February 5, 2010

See all News & Events »

Resources

The following are provided as resources for the digitization of both audio-visual and still image digital content.

- Digital Imaging Standards
- Evaluating Still Image Digitization and Digitization Equipment (PDF, 2.5 MB)
- "Format Considerations in Audio Visual Preservation Reformatting" (PDF, 528 KB)

View all Resources »

URL: http://www.digitizationguidelines.gov

Browse alphabetical list

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P

A

- *AAF*
  - AAF_1_1, Advanced Authoring Format (AAF), Version 1.1
- *AAC*
  - AAC_MP2, Advanced Audio Coding, MPEG-2
  - AAC_ADIF, Advanced Audio Coding, MPEG-2, Audio Data Interchange Format
  - AAC_MP4, Advanced Audio Coding, MPEG-4
  - AAC_MP4_LC, AAC (MPEG-4) Low Complexity Object
  - MP4_FF_2_AAC, MPEG-4 File Format, V.2, with Advanced Audio Coding
  - QTA_AAC, QuickTime Audio, AAC Codec
- *AC-3*
  - AC-3_A, AC-3 Compressed Audio (Dolby Digital), Revision A
- *AES3*
  - AES3, AES3, Digital Audio Interface Format
  - AES3_SMPTE, AES3 Digital Audio Interface, SMPTE Extensions
- *AIFF*
  - AIFF, Audio Interchange File Format
  - AIFF_LPCM, AIFF File Format with LPCM Audio
- *A-Law*
  - A-Law, A-Law Compressed Sound Format
- *AMR*
  - AMR, Adaptive Multi-Rate Speech Codec

archivematica
open archival information system

navigation
- Main page
- Recent changes
- Random page

search
Go Search

toolbox
- What links here
- Related changes
- Special pages
- Printable version
- Permanent link

page | discussion | view source | history

Main Page

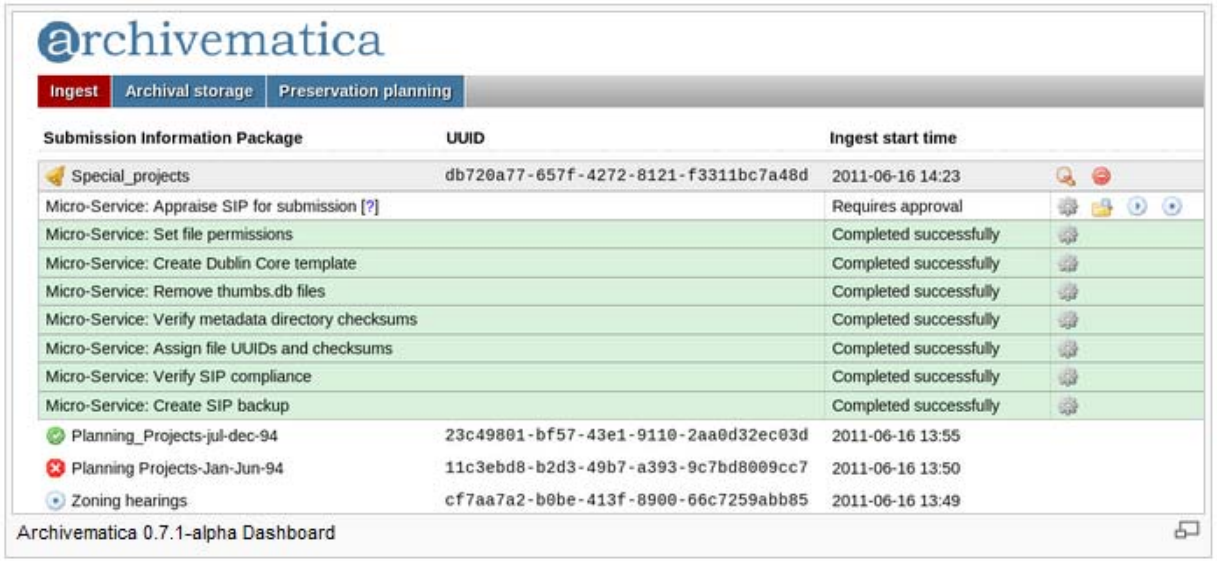
From Archivematica

What is Archivematica?

Archivematica is a comprehensive digital preservation system. Archivematica uses a micro-services design pattern to provide an integrated suite of free and open-source tools that allows users to process digital objects from ingest to access in compliance with the ISO-OAIS functional model.

Users monitor and control the micro-services via a web-based dashboard. Archivematica uses METS, PREMIS, Dublin Core and other best practice metadata standards. Archivematica implements media type preservation plans based on an analysis of the significant characteristics of file formats.

The overview section provides a detailed description of Archivematica's functionality and technical architecture. This screencast gives a demo of the Archivematica 0.7.1-alpha release.



Archivematica 0.7.1-alpha Dashboard

Downl
- Rel

Docun
- use
- scr

Develc
- Dev
- Dis

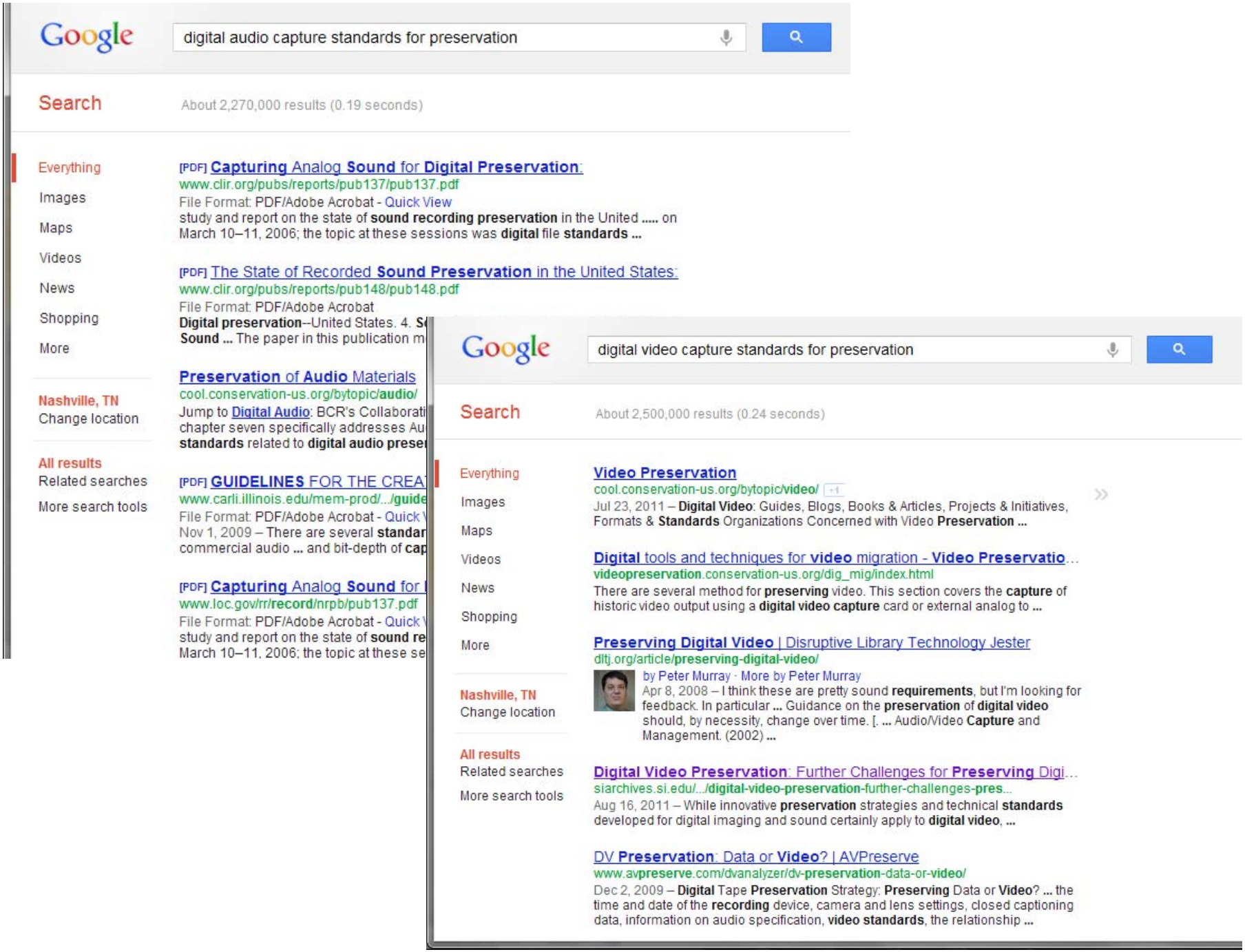
Twitte

What pe
Archiv

Media type preservation plans

Media type	File formats	Preservation format(s)	Access format(s)	Normalization tool
Audio	AC3, AIFF, MP3, WAV, WMA	WAVE (LPCM)	MP3	FFmpeg
Email	PST	MBOX	MBOX	readpst
Office Open XML	DOCX, PPTX, XLSX	Original format	PDF for PPTX	OpenOffice
Plain text	TXT	Original format	Original format	None
Portable Document Format	PDF	PDF/A	Original format	Ghostscript
Presentation files	PPT	Original format	PDF	OpenOffice
Raster images	BMP, GIF, JPG, JP2*, PCT, PNG*, PSD, TIFF, TGA	Uncompressed TIFF	JPEG	ImageMagick
Raw camera files/Digital Negative format**	3FR, ARW, CR2, CRW, DCR, DNG, ERF, KDC, MRW, NEF, ORF, PEF, RAF, RAW, X3F	Original format	JPEG	ImageMagick/UFRaw
Spreadsheets	XLS	Original format	Original format	OpenOffice
Vector images	AI, EPS, SVG	SVG	PDF	Inkscape
Video	AVI, FLV, MOV, MPEG-1, MPEG-2, MPEG-4, SWF, WMV	FFV1/LPCM in MKV	MPEG-1	FFmpeg
Word processing files	DOC, WPD, RTF	▪ ODF (WPD and RTF) ▪ Original format (DOC)	PDF	OpenOffice

- (*) PNG and JPEG2000 are not normalized to a preservation format
- (**) in development

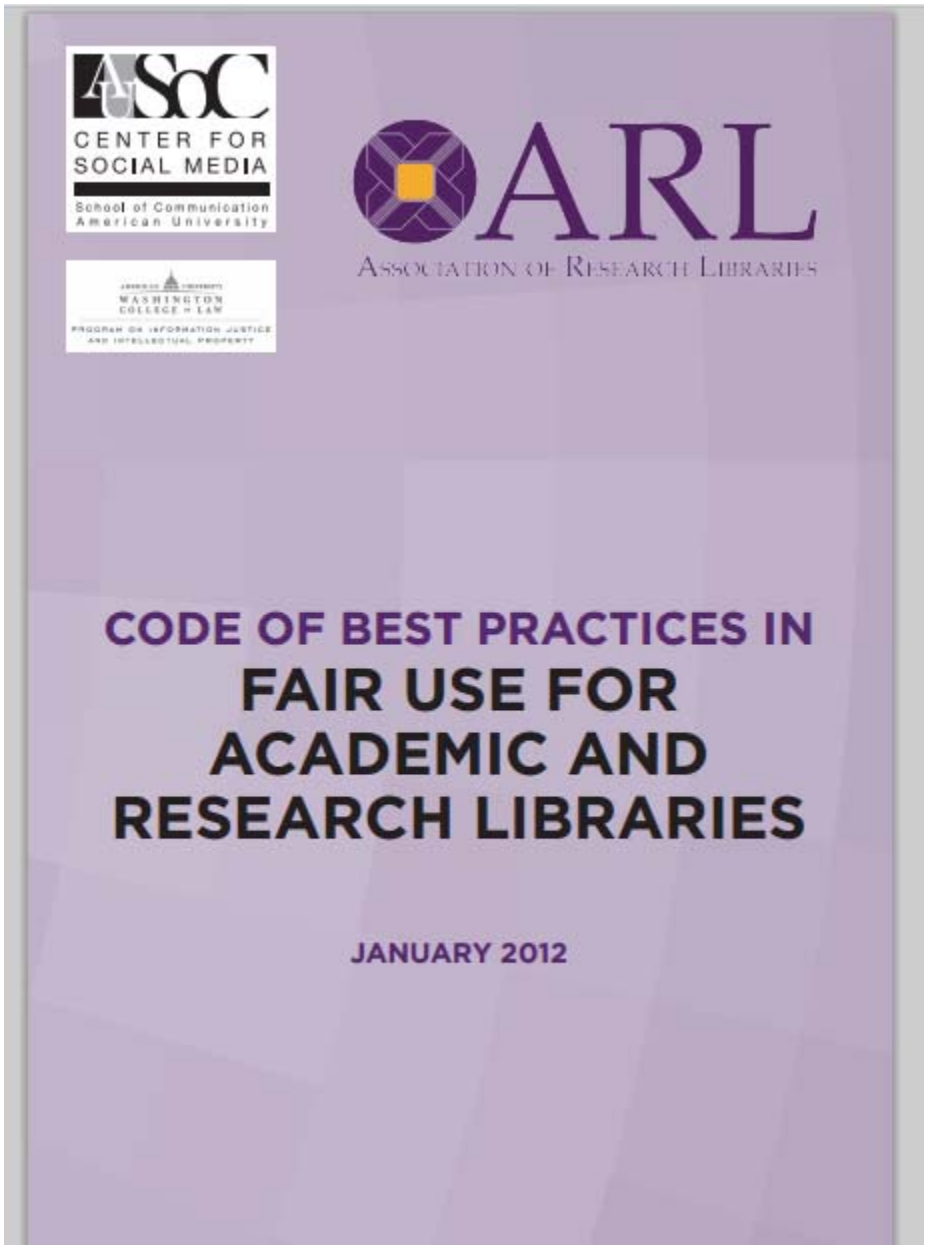

Google
digital audio capture standards for preservation
Search
About 2,270,000 results (0.19 seconds)
Everything
Images
Maps
Videos
News
Shopping
More
Nashville, TN
Change location
All results
Related searches
More search tools
[PDF] Capturing Analog Sound for Digital Preservation:
www.clir.org/pubs/reports/pub137/pub137.pdf
File Format: PDF/Adobe Acrobat - Quick View
study and report on the state of sound recording preservation in the United ..... on March 10–11, 2006; the topic at these sessions was digital file standards ...
[PDF] The State of Recorded Sound Preservation in the United States:
www.clir.org/pubs/reports/pub148/pub148.pdf
File Format: PDF/Adobe Acrobat
Digital preservation--United States. 4. S
Sound ... The paper in this publication m
Preservation of Audio Materials
cool.conservation-us.org/bytopic/audio/
Jump to Digital Audio: BCR's Collaborati
chapter seven specifically addresses Au
standards related to digital audio prese
[PDF] GUIDELINES FOR THE CREA
www.carli.illinois.edu/mem-prod/.../guide
File Format: PDF/Adobe Acrobat - Quick
Nov 1, 2009 – There are several standar
commercial audio ... and bit-depth of cap
[PDF] Capturing Analog Sound for
www.loc.gov/rr/record/nrpb/pub137.pdf
File Format: PDF/Adobe Acrobat - Quick
study and report on the state of sound re
March 10–11, 2006; the topic at these se
Google
digital video capture standards for preservation
Search
About 2,500,000 results (0.24 seconds)
Everything
Images
Maps
Videos
News
Shopping
More
Nashville, TN
Change location
All results
Related searches
More search tools
Video Preservation
cool.conservation-us.org/bytopic/video/
Jul 23, 2011 – Digital Video: Guides, Blogs, Books & Articles, Projects & Initiatives, Formats & Standards Organizations Concerned with Video Preservation ...
Digital tools and techniques for video migration - Video Preservatio...
videopreservation.conservation-us.org/dig_mig/index.html
There are several method for preserving video. This section covers the capture of historic video output using a digital video capture card or external analog to ...
Preserving Digital Video | Disruptive Library Technology Jester
dltj.org/article/preserving-digital-video/
by Peter Murray · More by Peter Murray
Apr 8, 2008 – I think these are pretty sound requirements, but I'm looking for feedback. In particular ... Guidance on the preservation of digital video should, by necessity, change over time. [. ... Audio/Video Capture and Management. (2002) ...
Digital Video Preservation: Further Challenges for Preserving Digi...
siarchives.si.edu/.../digital-video-preservation-further-challenges-pres...
Aug 16, 2011 – While innovative preservation strategies and technical standards developed for digital imaging and sound certainly apply to digital video, ...
DV Preservation: Data or Video? | AVPreserve
www.avpreserve.com/dvanalyzer/dv-preservation-data-or-video/
Dec 2, 2009 – Digital Tape Preservation Strategy: Preserving Data or Video? ... the time and date of the recording device, camera and lens settings, closed captioning data, information on audio specification, video standards, the relationship ...

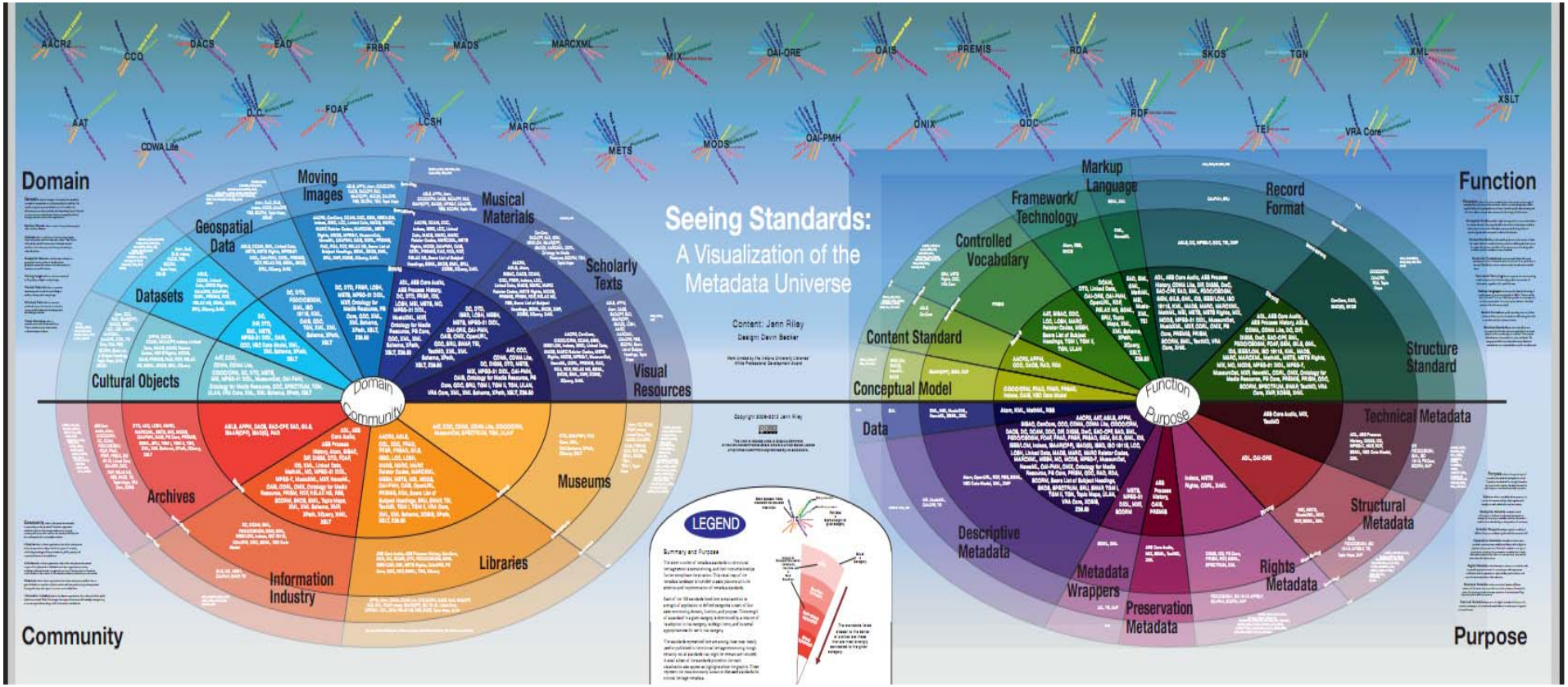
New Roles for New Times:

Digital Curation for Preservation

March 2011

Tyler Walters
Katherine Skinner


CENTER FOR
SOCIAL MEDIA
School of Communication
American University
WASHINGTON
COLLEGE of LAW
ARL
ASSOCIATION OF RESEARCH LIBRARIES
CODE OF BEST PRACTICES IN
FAIR USE FOR
ACADEMIC AND
RESEARCH LIBRARIES
JANUARY 2012

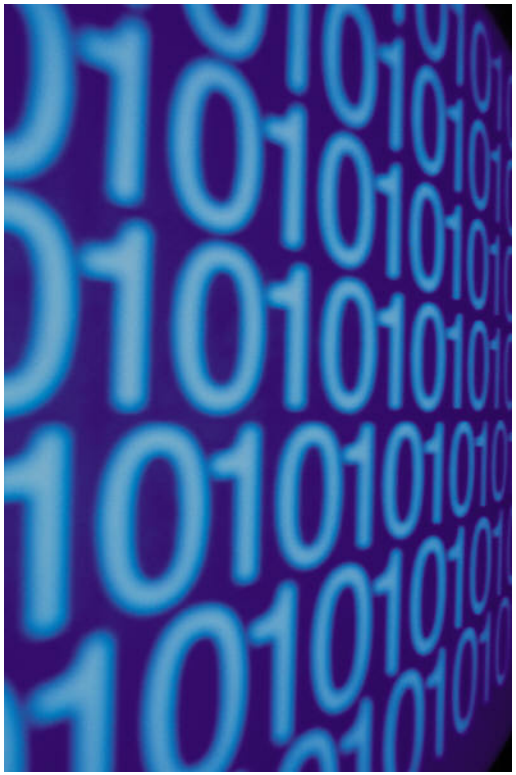

Seeing Standards:
A Visualization of the Metadata Universe
Content: Jenn Riley
Design: Devin Becker
Domain
Function
Community
Purpose
Moving Images
Musical Materials
Geospatial Data
Scholarly Texts
Datasets
Visual Resources
Cultural Objects
Archives
Museums
Libraries
Information Industry
Markup Language
Framework/ Technology
Record Format
Controlled Vocabulary
Content Standard
Structure Standard
Conceptual Model
Technical Metadata
Data
Structural Metadata
Descriptive Metadata
Rights Metadata
Metadata Wrappers
Preservation Metadata
LEGEND
AACR2
CCO
DACS
EAD
FRBR
MADS
MARCXML
MIX
OAI-ORE
OAIS
PREMIS
RDA
SKOS
TGN
XML
AAT
CDWA Lite
DCMI
FOAF
LCSH
MARC
METS
MODS
OAI-PMH
ONIX
QDC
RDF
TEI
VRA Core
XSLT

Storage Needs

Original Color Film	
35mm	50 MB
120 square	80 MB
120 6x4.5	60 MB
120 6x9	90 MB
4x5	135 MB
8x10	240 MB

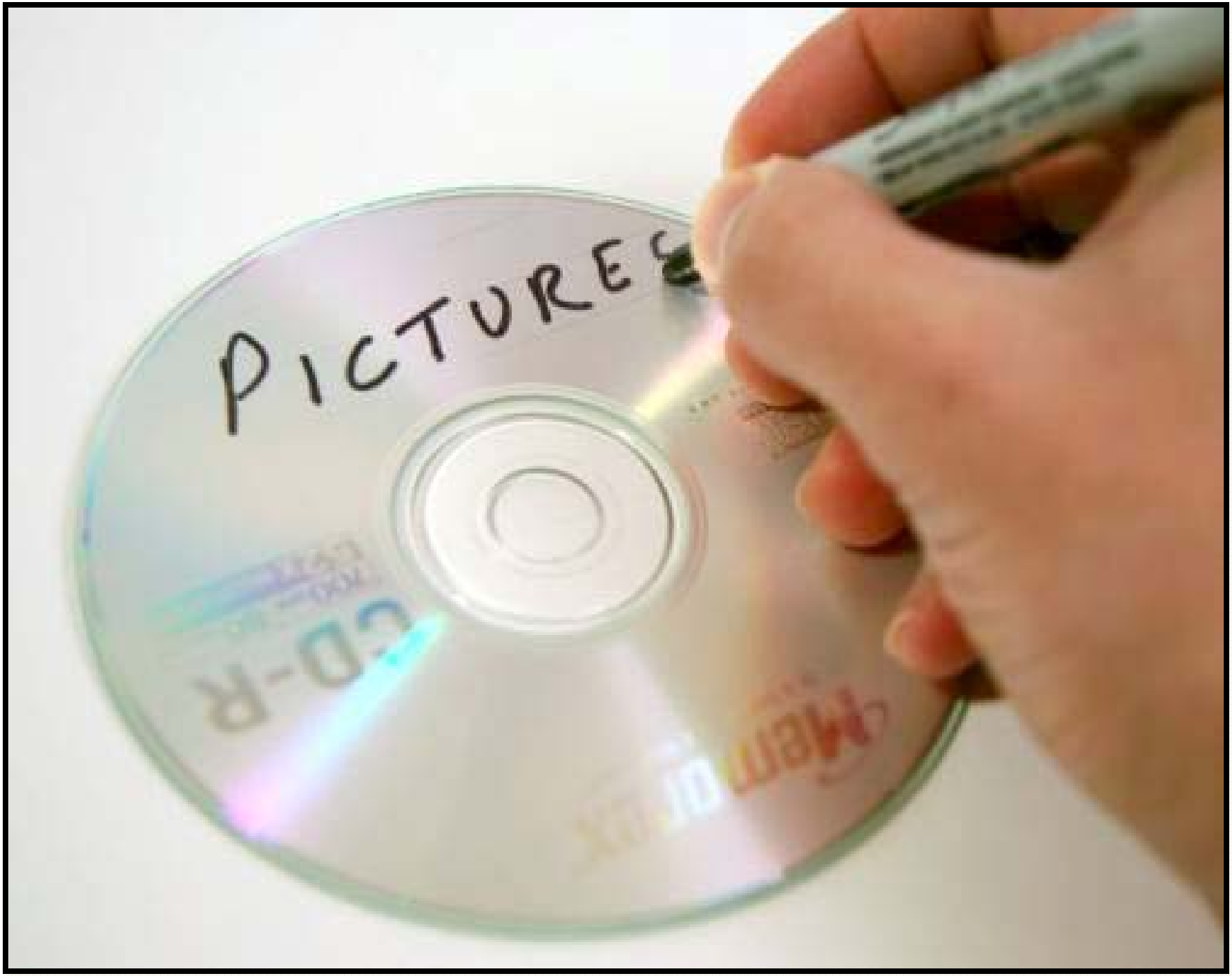
Bit-level, Content, and Format Preservation

- Store
- Refresh
- Migrate
  - LC's Sustainability Formats
- Emulate
  - mimeTypes
  - Pronom, Global Digital Format Registry
- Encapsulation
- Preserve the Technology
- Digital Forensics
- "3-3-3" Strategy



Preservation Infrastructure Strategies

- Redundancy
- Disaster recovery planning
- Diversify funding sources
- Document activities
- Maintain and grow skill sets and knowledge bases
- Policies, Policies, Policies
- Planning, Planning, Planning…
- Saving for a “Rainy Day”


PICTURES
CD-R

Products & Services

Amazon S3
- Amazon S3 Overview
- FAQs
- Pricing
- Amazon S3 SLA

Developer Resources
- Getting Started Guide
- AWS Management Console
- Documentation
- Release Notes
- Sample Code & Libraries
- Developer Tools
- Articles & Tutorials
- Community Forum

Not a Developer?

Looking for a consumer or business storage solution?

- Search for consumer storage solutions built on Amazon S3.
- Search for business storage solutions built on Amazon S3.

Amazon Simple Storage Service (Amazon S3)

Amazon S3 is storage for the Internet. It is designed to make web-scale computing easier for developers.

Amazon S3 provides a simple web services interface that can be used to store and retrieve any amount of data, at any time, from anywhere on the web. It gives any developer access to the same highly scalable, reliable, secure, fast, inexpensive infrastructure that Amazon uses to run its own global network of web sites. The service aims to maximize benefits of scale and to pass those benefits on to developers.

Easy to sign up,
pay only for what you use

Sign Up Now

This page contains the following categories of information. Click to jump down:

- Amazon S3 Functionality
- Protecting Your Data
- Pricing
- Getting Started with Amazon S3
- Transferring Large Amounts of Data
- Common Use Cases
- Resources
- Amazon S3 Design Requirements
- Intended Usage and Restrictions

Amazon S3 Functionality

Amazon S3 is intentionally built with a minimal feature set.

- Write, read, and delete objects containing from 1 byte to 5 terabytes of data each. The number of objects you can store is unlimited.
- Each object is stored in a bucket and retrieved via a unique, developer-assigned key.
- A bucket can be stored in one of several Regions. You can choose a Region to optimize for latency, minimize costs, or address regulatory requirements. Amazon S3 is currently available in the US Standard, EU (Ireland), US West (Northern California), Asia Pacific (Singapore), Asia Pacific (Tokyo) and GovCloud (US) Regions. The US Standard Region automatically routes requests to facilities in Northern Virginia or the Pacific Northwest using network maps.
- Objects stored in a Region never leave the Region unless you transfer them out. For example, objects stored in the EU (Ireland) Region never leave the EU.
- Authentication mechanisms are provided to ensure that data is kept secure from unauthorized access. Objects can be made private or public, and rights can be granted to specific users.
- Options for secure data upload/download and encryption of data at rest are provided for additional data

MetaArchive cooperative

"A place for everything, everything in its place, and seven secure copies."

The Digital Ben Franklin

THE COOPERATIVE | HOW IT WORKS | RESOURCES | HOW TO JOIN | CONTACT US

PRESERVED COLLECTION

Georgia Tech Photograph Collection

The collection includes more than 5,400 images that document the institution's rich history. These scanned images are stored as JPG and TIFF files in the Archives' instance of DSpace (viewable at Georgia Tech History Digital Portal).

Search

UPCOMING EVENTS

Katherine Skinner
Community-sourcing Collections Care
Digital Directions 2012
Boston Massachussetts, June 13-15, 2012

Katherine Skinner, Matt Schultz & Bill Donovan
Providing the ETDs of Today to the Researchers of Tomorrow
USetdA 2012
Boston Massachussetts, June 13-15, 2012

RECENT PUBLICATIONS

Gail McMillan, Matt Schultz, and Katherine Skinner, Digital Preservation, SPEC Kit 325, Association of Research Libraries, October 2011.

Emily Gore and Katherine Skinner, The MetaArchive Cooperative: Chronicles in Distributed Digital Preservation, 2010 Conference Proceedings from US Workshop on Roadmap for Digital Preservation Interoperability Framework, ACM Digital Library, October 2011.

(cc) kvitlauk

URL: Google Forms for Contact Info

http://is.gd/DVNssh