

# She Shoots She Stores: The New Photographic Practice

Lecture : SFU/ CMNS 386-4  
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# New Media Preservation

- ♣ International Research on Permanent Authentic Records in Electronic Systems: Experiential, Interactive, and Dynamic Records Project [InterPARES 2]

[http://www.interpares.org/ip2/ip2\\_index.cfm](http://www.interpares.org/ip2/ip2_index.cfm)

- ♣ Reciprocal Research Network at the UBC Museum of Anthropology [RRN -MOA]

<http://www.moa.ubc.ca/renewal/rnoverview.php>

# InterPARES 2

♣ Digital technology increases:

- 1) number of records made & distributed,
- 2) opportunity for haphazard creation & management,
- 3) permanent loss, and
- 4) opportunity for record manipulation & duplication.

## InterPARES 2

♣ Record: any document created by a physical person in the course of a practical activity or as a byproduct of an activity.

Ex. Digital Image

♣ Authenticity: trustworthiness that a record is what it purports to be and has not been tampered with since being *set aside*

♣ Reliability: trustworthiness of a record as a statement of fact

# What about Photography?



# Analogue Photography

- ♣ Legal authenticity & reliability based on ability to detect alterations in image emulsion and testimony of procedures over creation & preservation.
- ♣ Cultural authenticity & reliability based on the presence or mark of the creator and the object's history of ownership.

# Born Digital Images

- ♣ What is the original?
- ♣ How to detect changes?
- ♣ How to limit copies?
- ♣ What is the standard procedure for creation, distribution, management, and long-term preservation?
- ♣ How to know identity of creator, recipient, preserver?
- ♣ How to ensure integrity?

# Survey on the Record-Keeping Practices of Photographers using Digital Technology



# Survey Findings

- ♣ File Formats
- ♣ Commercial Software Products
- ♣ Storage Media
- ♣ Metadata
- ♣ Awareness & Concern

# Survey Recommendations

- ♣ Creators of born digital images should establish a record profile for each and every digital image that is saved.
- ♣ Creators should establish and implement access privileges into their record-keeping system.
- ♣ Creators should use standardized file formats and metadata schema.
- ♣ Creators should have back-up procedures in place.

# InterPARES 2 Guidelines for Creators

- ♣ Select software & hardware with track record of on-going compatibility.
- ♣ Ensure that digital information that needs to be kept has a stable and fixed form.
- ♣ Establish a person responsible for preservation activities.
- ♣ Organize digital files into logical groupings.
- ♣ Authentication methods should not affect future access.

# UBC-Museum of Anthropology

♣ RRN

♣ Digitization Scope

- file formats

- metadata schema

- storage & security

# Object / Image

- ♣ Barcoding
- ♣ File Maker Pro
- ♣ Collection Database
- ♣ Enterprise wide DAM

# FileMaker Pro - Tracking

CREP - Object Tracker (W2K3TEST)

**Object Tracker** Collections Survey Form

New Find Multi

Barcode Number: 35481

Remarks about this Object: [Text Area]

Current Station: Digitization 1

Current Station Date: 2006-07-13 [Insert]

Next Location Directed to: Original Storage Location

Reference Only (Data from Mimsy XG)

ID Number	A2493	Barcode Number	35481	Measurements	overall: 34.5 cm x 28 cm x 10 cm
Object Name	mask	Materials	wood, paint, copper metal		
Object Type/Title	Mask	Home Location	Research Case 11		
Collection Type		Condition	fair	Condition Date	2006-05-03
Culture	Northwest Coast				

Object Status:

Initial Data/Bar Code  Required  Done

Cons. Consultation  Required  Done

Pre-Pack Cons. Treat.  Required  Done

Residue Test  Required  Done

Mount  Required  Done

Digitization  Required  Done

Packing  Required  Done

Installation  Required  Done

All Data Complete  Required  Done

Initial Data/Bar Code Conservation Mount Making **Digitization** Packing/Temp Storage Installation

Digitization Date: 2006-09-06 [Insert] Cons. Treatment Required Prior to Display  Yes

Digitizer Name: Bushey, Jessica

Deferred digitization  Yes

Digitization Notes: [Text Area]

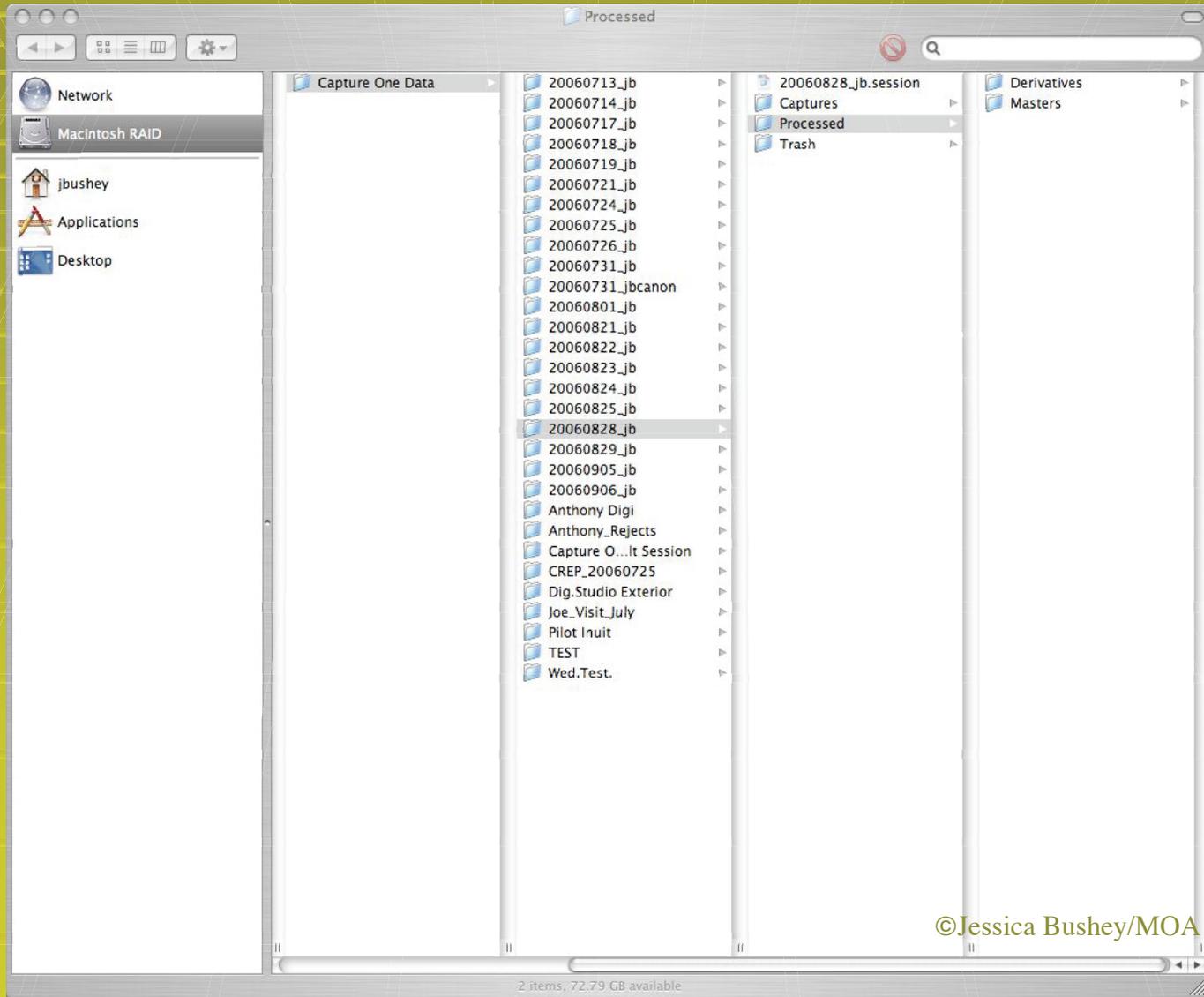
Curator's Comments: [Text Area]

Update Digit Status by scanning a group Move a Storage Unit

Date Record Modified: 9/6/2006 3:45:57 PM

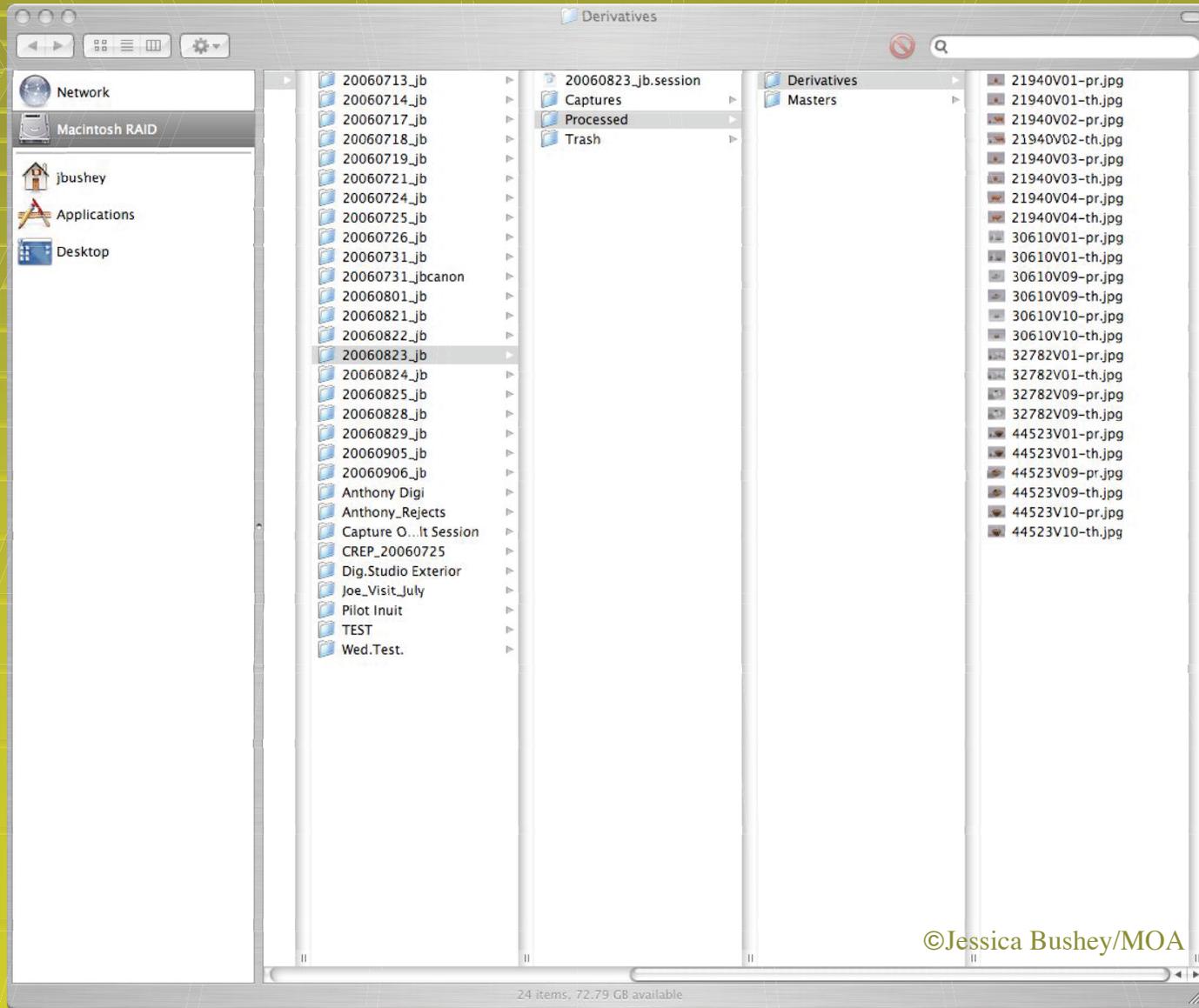
100 Browse

# Capture One File Hierarchy



©Jessica Bushey/MOA

# Capture One File Hierarchy 2



©Jessica Bushey/MOA

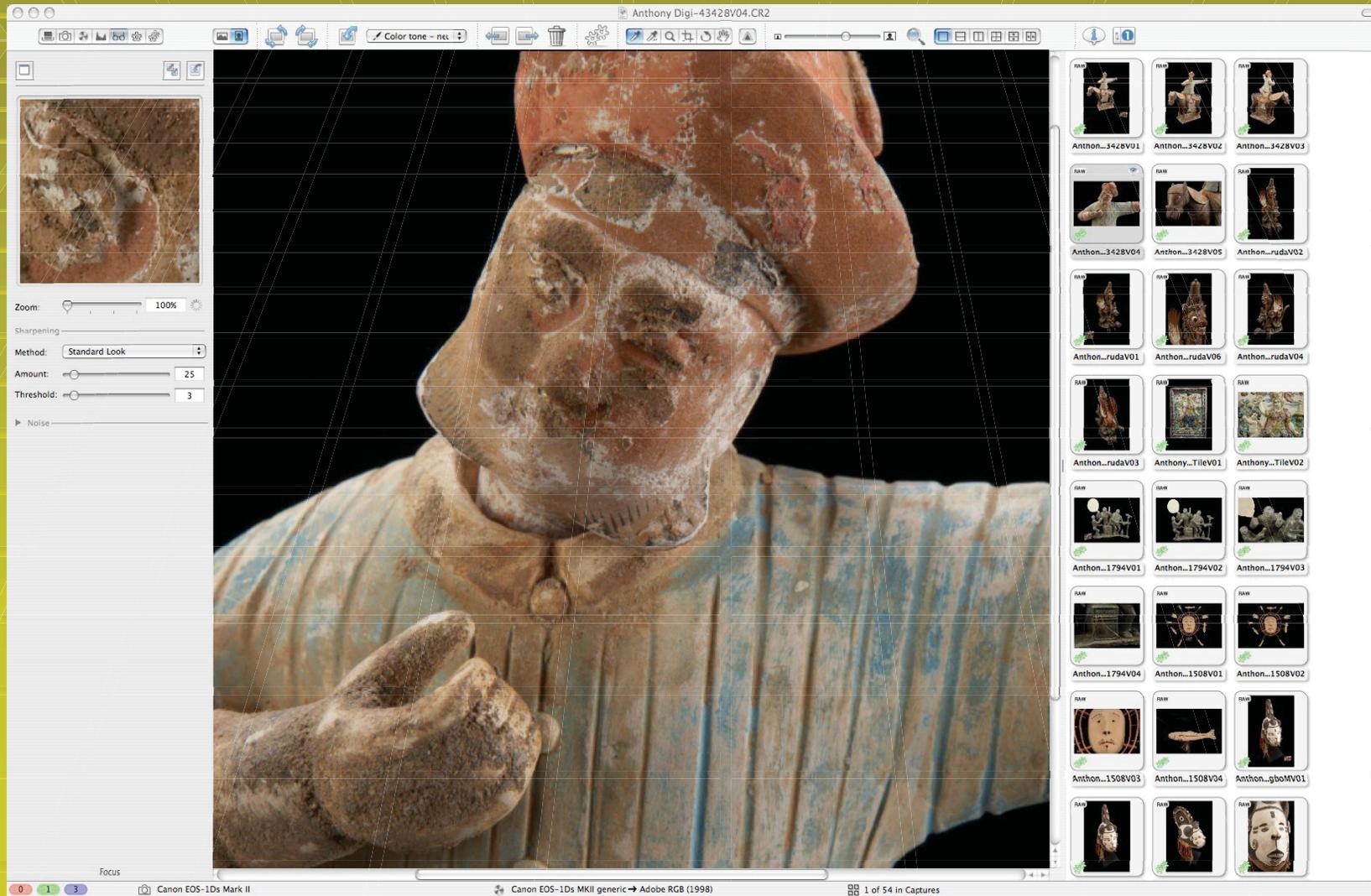
# Capture One - RAW

The screenshot displays the Adobe Capture One software interface. The central workspace shows a large RAW image of a man in traditional attire riding a horse. A color calibration chart is visible in the bottom right corner of the image. The left sidebar contains the 'Destinations' panel with options for 'Enabled only' and 'Size Columns', and a list of destinations with 'Master Quality', 'Print Quality', and 'Screen Quality' checked. Below this is the 'Basic' tab of the processing settings, including 'Master Quality' checked, 'Format: TIFF @ 16bit', 'Profile: Embed camera profile', 'Quality: High', 'Resolution: 72 px/in', 'Scale: Fixed', and 'Action: Open image after process'. The 'Output Size' is set to 3328 x 4992 px. The 'File Naming' section shows 'Job name: screen capture' and 'Composition: Capture name only'. The 'Sample' is identified as 'Anthony Digi-43428V01' with an 'Estimate' of 95.3 MB and a 'Process' button. The bottom status bar indicates 'Canon EOS-1Ds Mark II', 'Canon EOS-1Ds MKII generic -> Adobe RCB (1998)', and '1 of 54 in Captures'. The right sidebar shows a grid of 24 smaller RAW image thumbnails, each with a 'RAW' label and a filename such as 'Anthon...3428V01' through 'Anthon...gboMV01'.

# Capture One - Colour Target

The screenshot displays the Adobe Capture One software interface. The main workspace shows a photograph of a color target chart. On the left, the 'Color' panel is active, showing settings for 'Balance: Custom', 'ICC Profile: Canon EOS-1Ds MKII generic', 'Color Temperature: 5450 K', 'Tint: -2', and 'Green: Magenta'. Below these are 'Color Balance Correction' sliders for Hue and Sat. The 'White Balance' section shows 'Current' and 'If selected' color swatches. The right side of the interface features a grid of 24 thumbnail images, each labeled with a file name such as 'Anthon...3428V01', 'Anthon...3428V02', 'Anthon...3428V03', 'Anthon...3428V04', 'Anthon...3428V05', 'Anthon...3428V06', 'Anthon...rudaV01', 'Anthon...rudaV02', 'Anthon...rudaV03', 'Anthon...rudaV04', 'Anthon...rudaV05', 'Anthon...rudaV06', 'Anthon...TileV01', 'Anthon...TileV02', 'Anthon...1794V01', 'Anthon...1794V02', 'Anthon...1794V03', 'Anthon...1794V04', 'Anthon...1508V01', 'Anthon...1508V02', 'Anthon...1508V03', 'Anthon...1508V04', and 'Anthon...gboMV01'. The bottom status bar indicates 'White Balance', 'Canon EOS-1Ds Mark II', 'Canon EOS-1Ds MKII generic -> Adobe RGB (1998)', and '1 of 54 in Captures'.

# Capture One - Focus



# Capture One - Metadata

The screenshot displays the Adobe Capture One PRO interface. The main workspace shows a large image of an ancient terracotta head. A metadata window is open over the image, displaying the following information:

**Meta Data**  
Name: Anthony Digi-43428V04.CR2

- Camera**
  - Camera Model: Canon EOS-1Ds Mark II
  - Camera Serial Number: 306747
  - Camera Firmware Version: Firmware Version 1.1.4
  - Camera Owner: UBC Museum of Anthropology
  - Lens: 24mm-70mm
- Exposure**
  - Shutter Speed: 1/100s
  - Aperture: f18
  - Exposure Program: Manual
  - Exposure Mode: Manual
  - Flash Mode: Flash not fired
  - Metering Mode: Pattern
  - Drive Mode / Self Timer: Single Shot
  - Exposure Compensation: 0.0
  - Flash Compensation: 0.0
  - ISO Speed Rating: ISO 100
  - Focal Length: 70mm
  - Auto Focus Mode: One Shot
  - White Balance Setting: 5200K
  - Subject Distance: Unknown
  - Color Space: sRGB
- File**
  - File Size: 13.1 MB
  - Image Serial Number: 560
  - Creation Date: May 10, 2006 11:53:01 AM
  - Image Dimensions: 4992 x 3328 pixels
  - Image Quality: RAW

The interface also shows a grid of smaller image thumbnails on the right, a sidebar with various tools and settings on the left, and a top menu bar with options like File, Edit, View, Camera, Image, Window, and Help.

# Image Example - Front View



©Digital UBC Museum of Anthropology  
Photograph by Jessica Bushey, 2006

# Image Example - Left View



©Digital UBC Museum of Anthropology  
Photograph by Jessica Bushey, 2006

# Image Example - Object Back



©Digital UBC Museum of Anthropology  
Photograph by Jessica Bushey, 2006

# Image Example - Right View



©Digital UBC Museum of Anthropology  
Photograph by Jessica Bushey, 2006

# Challenges Ahead for MOA

- ♣ Maintenance
- ♣ Security
- ♣ Access
- ♣ Long-term Preservation

# Challenges Ahead for Artists

- ♣ File naming, Keywords, and/or Metadata to facilitate efficient and accurate access, management, and preservation of born digital images.
- ♣ File formats, storage media, storage hardware to facilitate access and dissemination of born digital images in the future.
- ♣ Documentation for the purposes of accurately reproducing a born digital image for exhibition, interaction, publication etc...

# URLs of Interest

♣ InterPARES 2 project

[http://www.interpares.org/ip2/ip2\\_index.cfm](http://www.interpares.org/ip2/ip2_index.cfm)

♣ RRN

<http://www.moa.ubc.ca/renewal/rroverview.php>

♣ DOCAM [Documentation & Conservation of the  
Media Arts Heritage

<http://www.docam.ca/>

♣ Netherlands Media Art Institute

<http://www.montevideo.nl/en/index.html>

♣ Ludwig Boltzmann Institute - Media. Art. Research

<http://media.lbg.ac.at/en/index.php>