

## Project Update for SAA 2010 Research Forum, Kari Smith

# Embedded Metadata: For the Long Now

# **Project Objectives**

- Allow curators to more efficiently collect metadata from faculty and student contributors and ingest it into a central database.
- Empower contributors to keep embedded metadata in their image files for the purpose of managing them with common desktop photo applications and sharing with colleagues and students.
- Create data that is both Core 4 and IPTC compatible, i.e., it is interoperable with most photo software and can be easily ingested into a VR focused database.

## http://metadatadeluxe.pbworks.com



## Metadata Deluxe send your images packing with embedded metadata

the public forum for the <u>Visual Resources Association</u> <u>Embedded Metadata Working Group</u>



Library of Congress

## Library of Congress

## how to participate

## <u>News</u>

VRA EMWG updates as well as new developments, applications, and services in the area of embedded metadata from the broader community. more

## Introduction

Traditionally, data about a digital image is stored separately in a central database which manages and delivers it to users. With the advent of digital images...<u>more</u>

### **Projects**

Current and future tools, guidelines and standards...more

## Principles

#### Descriptive metadata should be embedded in the image file itself.

There are distinct <u>advantages</u> for embedding descriptive metadata directly in digital image files. There are also <u>disadvantages</u> which must be accounted for.

### Embedded metadata should be usable at all levels.

It should take full advantage of XMP's interoperability and not focus on satisfying just one audience.

## Intentions

**Reconcile commercial photo and cultural heritage descriptive metadata standards.** Create a <u>crosswalk</u> between CDWA Lite, VRA Core, ARTstor Core, Exif, IPTC IIM, and XMP.

Create open source tools for converting and embedding cultural heritage metadata using XMP. Create an <u>application</u> that will embed VRA Core 4 metadata.

# Progress

## ☆ Workflow Tool Phase One

last edited by 🎒 GregReser 🔰 4 wks ago

Page history

## The Workflow Tool is a user input form for describing images of cultural heritage works.

### User input panel (work in progress)

Workflow Tool Phase One Mockup: Standard View Workflow Tool Phase One Mockup: Basic View Workflow Tool Phase One Mockup: Minimal View

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- Create a panel that fulfills the Phase One Use Cases.

## **File types supported**

- JPEG
- TIFF

## Applications supported

- Adobe CS4 Photoshop and Bridge
- · Standalone Windows and Mac desktop application
- Web form

### Phase One Use Cases:

- 1. Faculty/student submits images to VR collection
  - Architecture/Site
  - Creative works by themselves (painting, sculpture, etc.)
  - · Creative works by others (from a museum they visited)
  - Events (festivals, exhibitions)
  - Dissertation (visual arts, theater)

#### 2. VR copy stand workflows for backlog processing

· Photographer/scanner enters the image caption and source citation, page number, faculty / staff requestor

## 3. Faculty/student or VR curator submits images to Flickr, Smugmug, Picassa, etc. to be shared and downloaded

· Essential data must display on web services, while more complete data could be retrieved by VR curator

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Location	Museum/Repository		1	
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## **Basic Input Panel using Photoshop**

This custom panel allows for data entry within a common image software, in this case PhotoShop. Data fields are specific to VRA Core 4.0 schema but map across major metadata standards so as to import and export correctly in many image viewing platforms.

UCSD Arts Accession					
Order Number	6545 Server address \\Elbereth.ucsd.edu\aal3 Server address \\Elbereth.ucsd.edu\aal3				
Accession Begin	191210         End         191604         Number of images         395				
Date Requested	4/5/2009 format: MM/DD/YYYYY (example: 09/24/2009)				
Requester	Arts Library use natural order, e.g., Leslie Abrams				
Affiliation	Staff UCSD department				
Source Title	Stuart Collection Slides				
Source Author					
Source Type	Slides ID (call#, ISBN, product#, etc.) SC-34-A01				
Category	Sculpture and Installations   Rights All Education Use				
Origin	Donated Accession Notes Some slides appear damaged; 191235 deleted (RW)				
Production tracking	Sid Hickox Date 1/18/2009 format all dates: MM/DD/YYYY (example: 09/24/2009)				
	Shooting Notes 2 slides have scratches on the film - 191235 and 191403				
Edited 💌 B	y Owen Marks Date 4/21/2009				
Editing Notes	I was able to fix 191403 but not 191235				
Approved	By Raoul Walsh Date 4/28/2009				
QC Notes	191235 deleted from order				
Cataloged	Cataloged By James Cagney Date 5/2/2009				
Cataloging Notes	What happened to 191234? That was my favorite image?				
Sent to ARTstor	Sent to ARTstor (Date)     5/7/2009     Collection     UCSD Institutional				
Confirmed in ARTstor (Date)	5/15/2009 Confirmed By Steve Ilott				
Sent to UCSD DAMS (Date)	6/1/2009 Archiving Notes rw files also archived by Arts Livrary, drive AL23				
	OK <u>R</u> eset				

## Workflow Panel example

Custom XMP panel - the top half contains information such as the unique order number, requester, department, genre, the source title and author, the bottom half contains production details such as when the order was photographed and when it was cataloged.

# Next Steps

- Continue Workflow Tool development
- Continue collaboration with external organizations
- Document case studies
- Test import / export of MD

# Credits

## Visual Resources Association, Embedded Metadata Working Group and external colleagues

- Johanna Bauman, ARTstor
- Greg Reser, University of California, San Diego
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- Kari Smith, University of Michigan
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- Carl Rambert, Pound Hill software
- Stefan Makswit, Adobe
- David Kennard, photographer and XMP programmer in the UK.