

Embedded metadata in the cultural heritage community

Greg Reser
greser@ucsd.edu
UC San Diego



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

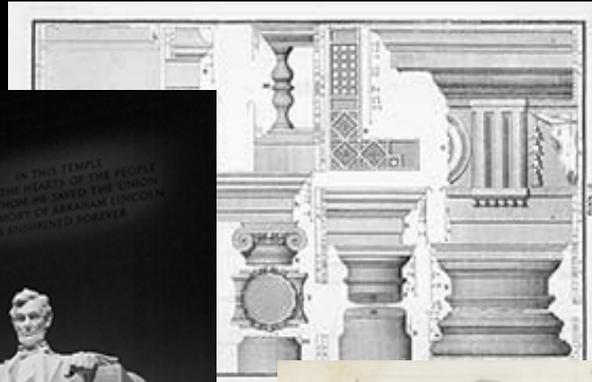
Cultural Heritage



Embedded Cultural Heritage

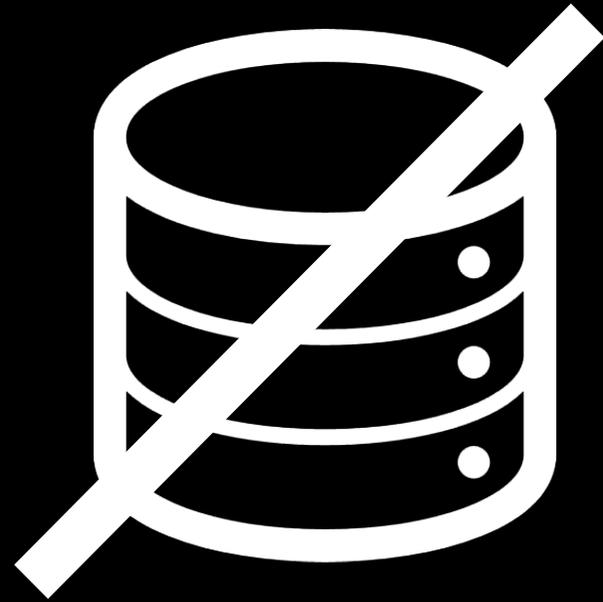
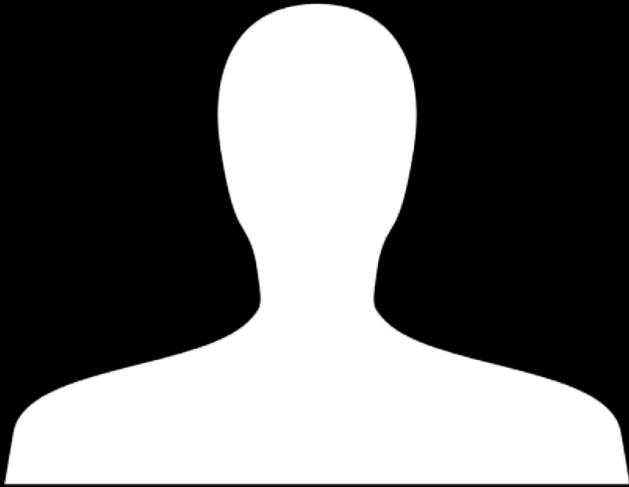


Wikimedia Commons

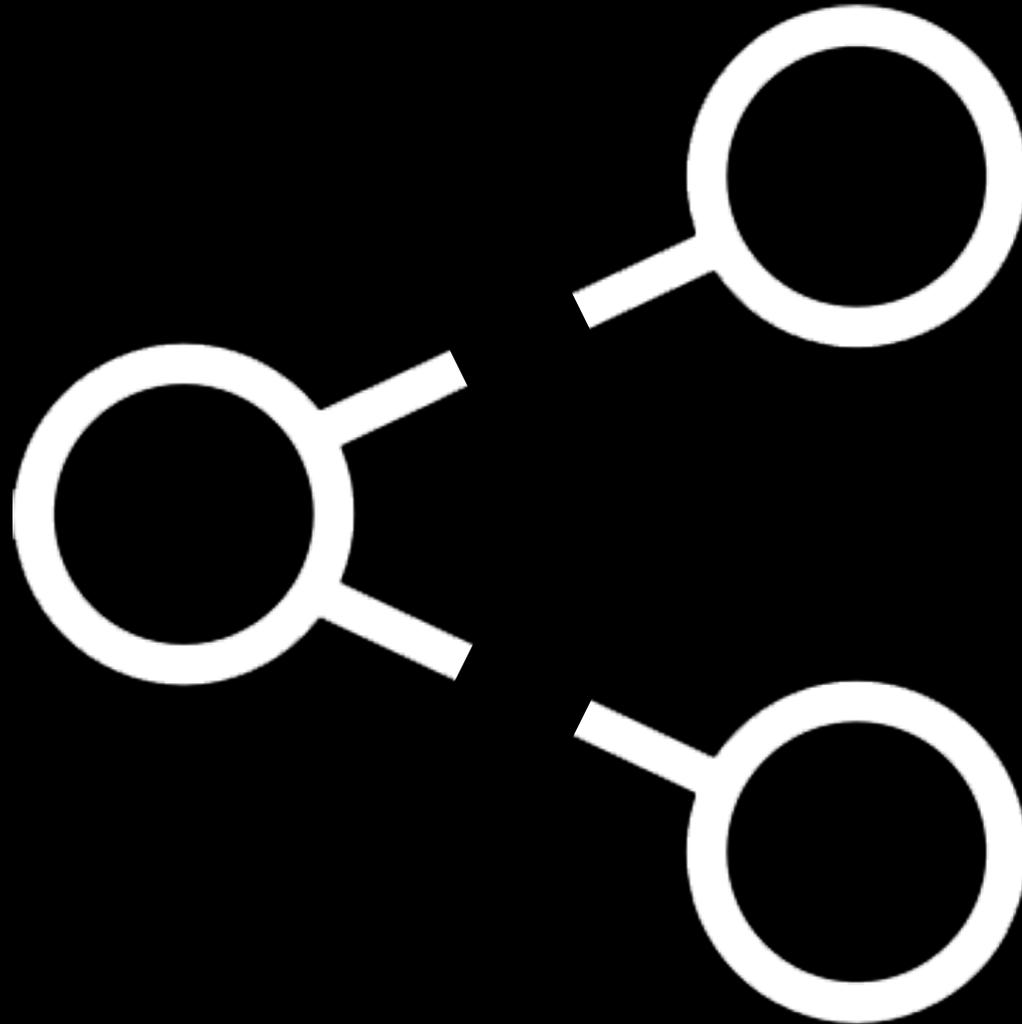


Museums
Archives
Libraries
Education

Restricted Access



Separate Systems



Bureaucracy



Photo Software



Spreadsheets

	A	B	C	D
1				
2				
3				
4				
5				
6				
7				



File Info Panel

panel version 1.0

all fields are visible

Search vocabularies:

Use semicolons as delimiters
*to preserve commas and semicolons as punctuation, use quotes for a phrase. (example: "Picasso, Pablo")

Work

Creator	
Title	
View Description	
Date	
Style/Period	
Culture	
Work Type	
Material	
Technique	
Measurements	
Location	
Display	
Repository	
Site	
Creation	
Discovery	
Exhibition	
Installation	
Performance	
Other	
Notes	
Work ID	
Rights	
Description	
Subject	
Inscription	
Relation	
Text Reference	
Info Source	
Custom 1 Label	Data
Custom 2 Label	Data

Image

View Description	
Original Date	
Creator	
Image Source	
Rights	
Copyright Status	Unknown
Creative Commons	Not a Creative Commons License
CC license URL	
Copyright URL	
Usage Terms	
Copyright Notice	
Custom 3 Label	Data
Custom 4 Label	Data

Administration

Collection	
Job Identifier	
Cataloger	
Custom 5 Label	Data
Custom 6 Label	Data

Summary

Auto-fill All clear all

Photo Title	
Description/Caption	
Keywords	



Export-Import

VRA Export-Import - code version: 2015-10-19

Visual Resources Association Metadata Export-Import Tool (compatible with VRA custom info panel version 1.0)

Using Default Field Names

Export Metadata

Images

Selected thumbnail(s) in Bridge
 Entire folder

folder path: include subfolders
~/Documents/Images/Test Images/

Options

prepend Image dates with '_'
 Remove line breaks

Import Metadata

Images in a folder

folder path: include subfolders
~/Documents/Images/Test Images/

Metadata text file

file path:
~/Documents/Images/Metadata Export-Import/2_0_e:

Match on

Filename
 Path and filename

Existing Data

Overwrite all fields
 Write only to empty fields

Options

Ignore file extensions
 Create Title (IPTC)
 Create Description/Caption (IPTC)
 Create Keywords (IPTC)
 Set Thumbnail Label

vra Core Schema

Work



Image



vra Core Schema

Work

Work record [refid 11]	
agent	after Andrea Palladio (Italian architect, 1508-1580); Ottavio Bertotti-Scamozzi (Italian author and draftsman, 1719-1790)
culturalContext	Italian
date	1796 (publication)
description	[Physical descrip: 4 v. : ill., plans; 24 cm. Edition source: University of Toronto Libraries] In 1776 Bertotti Scamozzi published the first volume of <i>Le fabbriche e i disegni di Andrea Palladio raccolti e illustrati</i> . The idea of producing a luxurious edition of Palladio's works for an international, especially English, market began in 1770, when Pietro Edwards first discussed it with Bertotti Scamozzi, the scholar Antonio Locatelli and probably also the collector and patron John Stuart, 3rd Earl of Bute. The aim of the project was to clarify Palladio's ideas for his admirers and imitators, to solve problems of attribution and reconstruction of incomplete or destroyed works, and to resolve the question of the difference between Palladio's completed buildings and those shown in the plates of his treatise <i>I quattro libri</i> . Bertotti Scamozzi erroneously viewed the drawings in <i>I quattro libri</i> as plans representing Palladio's original wishes. He therefore undertook a philological analysis aiming to restore the 'old' Palladio: he collated all the editions of <i>I quattro libri</i> , comparing the designs shown in those plates that he considered most reliable and consistently Palladian with the corresponding buildings and noting the differences in execution. The results of his work were recorded in the drawings published in <i>Le fabbriche</i> . Grove Art Online; http://www.oxfordartonline.com (accessed 3/24/2009) [description source]
inscription	
location	Vicenza, Veneto, Italy [publication] Publisher; Giovanni Rossi [location note]
material	ink on paper
measurements	24 cm (height)
relation	depicts Palazzo della Ragione [Core 4 Sample Database, refid="11" relids="w_15"]
rights	publicDomain
source	Core 4 Sample Database (VCat)
stateEdition	
stylePeriod	Eighteenth century; Palladian
subject	architectural exteriors; architectural interiors; architectural drawings; Palladio, Andrea, 1508-1580
technique	engraving (printing process); offset printing
textref	
title	<i>Le fabbriche e i disegni di Andrea Palladio</i> [cited, true, it] <i>Le fabbriche e i disegni di Andrea Palladio / raccolti ed illustrati da Ottavio Bertotti Scamozzi, opera divisa in quattro tomi con tavole in rame, rappresentanti le piante, i</i>

Image

Image record [refid 109]	
agent	Gilchrist, Scott
culturalContext	
date	5/15/1996 (creation)
description	
inscription	
location	
material	
measurements	18 MB
relation	[imageOf 11, Core 4 Sample Database (VCat)]
rights	publicDomain
source	VRA Data Standards Committee, Core 4 Sample Records http://www.core.vraweb.org/examples/html/example023_full.html [href] Archivision, Inc. 1A1-PA-PR-D-A4 [source of image]
stateEdition	
stylePeriod	
subject	architectural drawings; architectural elements; Palladio, Andrea, 1508-1580; drawing; Ionic capital, dentils
technique	digital imaging digital imaging
textref	

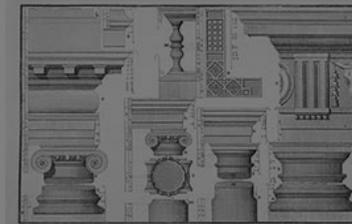
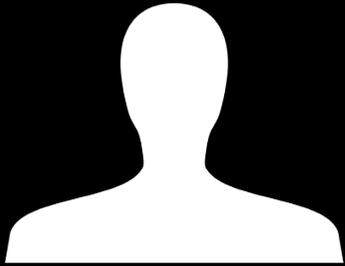
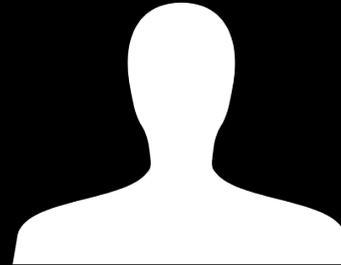


image courtesy Archivision, Inc.

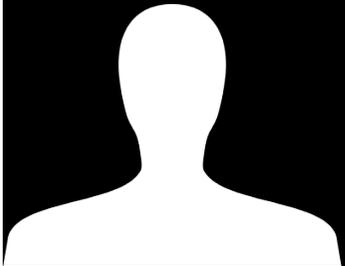
Collect



	A	B	C	D
1				
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7				



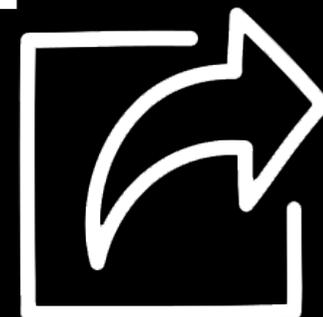
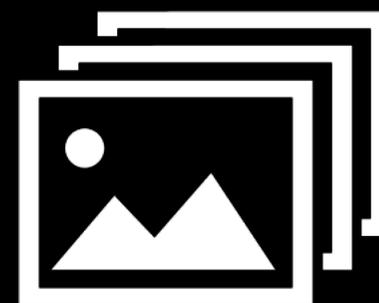
	A	B	C	D
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3				
4				
5				
6				
7				



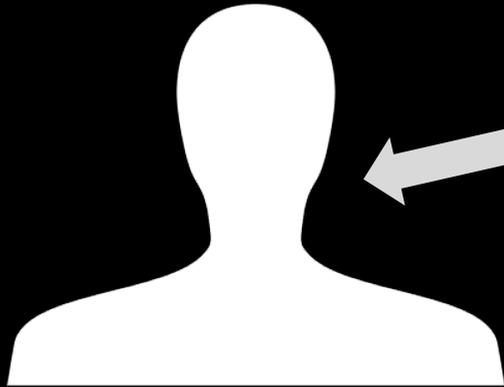
	A	B	C	D
1				
2				
3				
4				
5				
6				
7				



Publish



Use Case



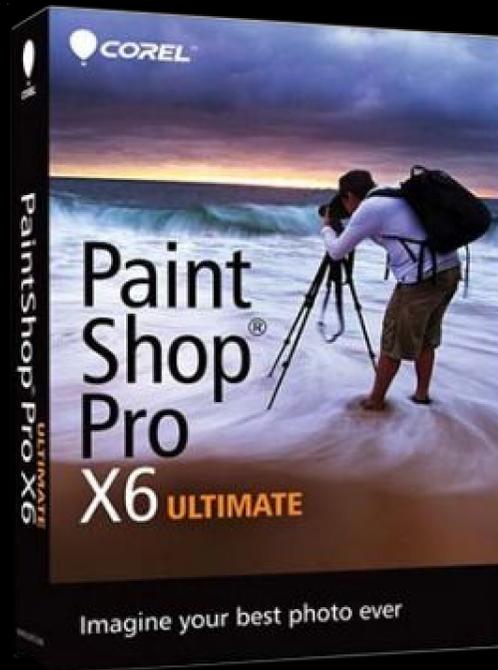
← Bill Rodman



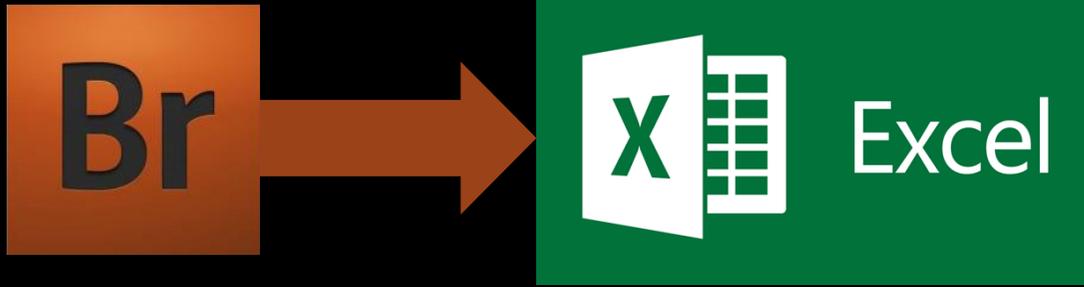
Scan Image

Edit Image

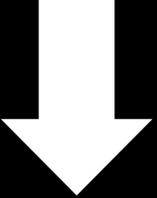
Add Metadata



Export



	A	B	C	D
1	File Name (required)	Image Original Date	Summary Description/Caption	Summary Keywords
2	70Abel Sponsors Rubert.jpg		Abel Tarimanini sponsors Rupert Garae, who seeks the highest rank in the East Aoban graded society, ala hanavulu. Here, Abel "sells" Rupert the right to regalia appropriate to the rank.	January 23, 1970; Ata Voa, Longana, Aoba; Rank-taking, sponsorship, regalia
3	70Ansela Under Mat.jpg	_2003-09-06	Ansela Garae and Solomon Boe are getting married. Ansela sits under a single sleeping mat and a piece of calico, waiting for her classificatory fathers to place additional sleeping mats on her head. A note-taker and an observer keep an inventory of all	November, 1970, Ata Voa, Longana, Aoba; Kastom Marriage, Book-keeping
4	70Bill at Rupert's ala.test..jpg		Bill Rodman attends the first major rank-taking he has seen. Rupert Garae is about to achieve the highest rank in the graded society - ala hanavulu. The large pig in the foreground is one of	Ata Voa, Longana, Aoba; January 23, 1970; WLR, graded society, Ala Hanavulu
5				
6				



Import to UCSD DAMS

IPTC Extension



IPTC Standard

Photo Metadata (October 2014)

IPTC Core
Specification Version 1.2

IPTC Extension
Specification Version 1.2

Document Revision 3

Title

Creator

Creator ID

Date Created

Circa Date Created (text)

Style/Period

Physical Description

Content Description

Contribution Description

Source

Source Inventory Number

Source Inventory URL

Copyright Notice

Current Copyright Owner Name

Current Copyright Owner ID

Current Licensor Name

Current Licensor ID



IPTC File Info Panel

IPTC Cultural Heritage Metadata version 1.0

Save

Artwork/Object →

Image

Image Rights

Admin

Artwork/Object

Title

Creator 1 ID

Creator 2 ID

Creator 3 ID

Date Created YYYY or YYYY-MM or YYYY-MM-DD

Circa Date Created

Style/Period

Contribution Description

Physical Description

Source

Name

Inventory Number

Inventory URL

Content Description

Copyright Notice

Current Copyright Owner

Name

ID

Current Licensor

Name

ID

Save Close about



IPTC File Info Panel

IPTC_CH Export-Import - code version: code version: 2015-10-19

IPTC Cultural Heritage Metadata Export-Import Tool (compatible with custom info panel version 1.0)

Export Metadata

Images

Selected thumbnail(s) in Bridge
 Entire folder

folder location: include subfolders
~/Documents/Images/Test Images/

Options

prepend Image dates with '_'
 Remove line breaks

Import Metadata

Images folder

folder location: include subfolders
~/Documents/Images/Test Images/

Metadata text file

file location:
~/Documents/Images/Metadata Export-Import/TEST.t

Match on

Filename
 Path and filename

Existing Data

Overwrite all fields
 Write only to empty fields

Options

Ignore file extensions
 Create Headline (IPTC Core)
 Create Description/Caption (IPTC Core)
 Create Keywords (IPTC Core)
 Set Thumbnail Label



Search



Search Results in Images

pyramid

File Edit View Tools Help

Organize Save search Burn

Images

- .thumbs
- 097 Test files
- Advertising
- Architecture
- ARTstor downloads
- Astronomy
- Basic Fields
- Benisvy Test
- Books
- Cars
- Cataloging issues
- CaVraCon_images
- Ceramics
- CME
- Coins
- Copy of 097 Test files
- CS4 Screen shots
- Dance
- DOV
- Drawing
- Electronics
- EM Test Images
- EM Workbooks

Greg Work library

Search Results in Images

Arrange by: Top results

3608737124_2a840e305b_b

4747230986_d9d4c36840_b

fra03062

lond0253

louv1036

prc31079

mes01016

prc23051

liby1738

prc23047

eur14002

egy01074

2677415789_6e60f5b71f_o

egy03015

balt0342

eu06068

balk8351

Search again in:

- Greg Work
- Libraries
- Computer
- Custom...
- Internet

17 items

17 items



Identifiy

Search Results in Images

pyramid

File Edit View Tools Help

Organize Preview Share with Save search Burn

Images

- .thumbs
- 097 Test files
- Advertising
- Architecture
- ARTstor downloads
- Astronomy
- Basic Fields
- Benisvy Test
- Books
- Cars
- Cataloging issues
- CaVraCon_images
- Ceramics
- CME
- Coins
- Copy of 097 Test files
- CS4 Screen shots
- Dance
- DOV
- Drawing
- Electronics
- EM Test Images
- EM Worksho...

Greg Work library

Search Results in Images

Arrange by: Top results

3608737124_2a840e305b_b

4747230986_d9d4c36840_b

fra03062

lond0253

louv1036

prc31079

mes01016

prc23051

liby1738

prc23047

eur14002

egy01074

2677415789_6e60f5b71f_o

egy03015

balt0342

eu06068

balk8351

Search again in:

- Greg Work
- Libraries
- Computer
- Custom...
- Internet

2677415789_6e60f5b71f_o

JPG File

Date taken: 6/12/2008 12:00 AM

Tags: George Eastman House; View photos from this member or from everyone; pyramids; woman; scarf; Egypt; naked; skin; pyramiden; nackt; kopftuch; tisch; table; en profil; sphinx; Dr. W. Simon; Dr. William Simon; William Simon; autochrome

Title: Woman posed as sphinx Date modified: 5/24/2013 6:49 PM

Authors: Add an author

Comments: Add comments

Adobe Bridge



Search Results: Images

File Edit View Stacks Label Tools Window Help CSU Metadata

ESSENTIALS FILMSTRIP METADATA OUTPUT

pyramid

Desktop > Computer > Windows7_OS (C:) > Users > Computer User > Greg Work > Images > Search Results: Images

Sort by Filename

FAVORITES FOLDERS

- Computer
- Computer User
- Desktop
- Downloads
- Images
- Test Images
- Personal Photos

FILTER COLLECTIONS EXPORT

- Parent Folder
- Labels
 - No Label 2
 - VRA EMwg Basic metadata imported 1
 - VRA metadata imported 8
- Keywords
- Date Created
- Date Modified
- Orientation
- Aspect Ratio
- Color Profile
- ISO Speed Ratings
- Exposure Time
- Aperture Value
- Focal Length
- Focal Length 35mm
- Model
- White Balance

CONTENT

Find Criteria: Filename contains "pyramid" OR Description contains "pyramid" OR Keyw...

New Search

2677415789_6e60f5b71f_o.jpg

3608737124_2a840e305b_b.jpg

4540161669_211f7e1b39.jpg

egy01074.jpg

egy03015.jpg

eur14002.jpg

liby1738.jpg

louv1036.jpg

prc23047.jpg

prc23051.jpg

prc31079.jpg

PREVIEW

METADATA KEYWORDS

File Properties

▼ IPTC Core

Creator

- Creator: Job Title
- Creator: Address
- Creator: City
- Creator: State/Province
- Creator: Postal Code
- Creator: Country
- Creator: Phone(s)
- Creator: Email(s)
- Creator: Website(s)

Headline

An arbitrary grouping of unconnected products for purposes of instructive comparison

Description

New-York tribune. (New York [N.Y.] 1866-1924, December 5, 1909, Image 17; Library of Congress, Serial and Government Publications Division, Washington, D.C. 20540 USA

Library of Congress; New York Tribune; newspaper; cover; illustration; drawing; art; future; futurism; futuristic; skyscraper; An arbitrary grouping of unconnected products for purposes of instructive comparison.; sugar; consumption; Washington Monument; tobacco; pyramid; Cheops; coffee; Tribune Building; raw sugar; imported; importation; duty; statistics; infographic

Keywords

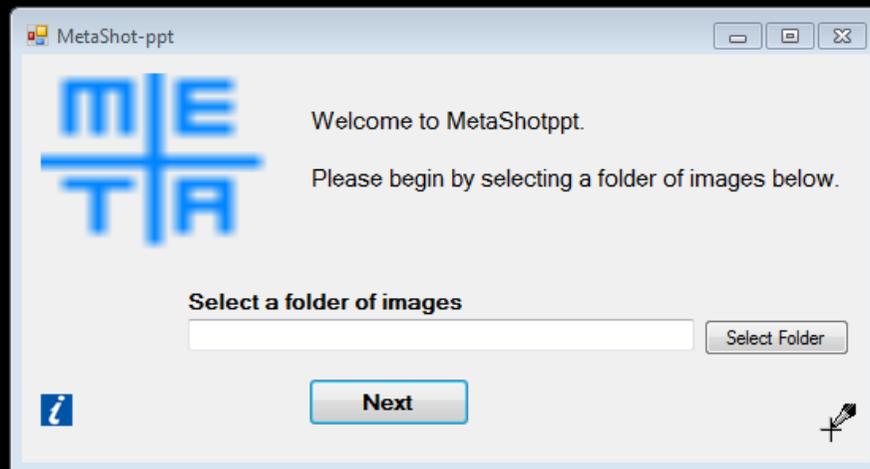
IPTC Subject Code

Description Writer

Date Created

Located In C:\Users\Computer User\Greg Work\Images\Prints

Microsoft PowerPoint



Publishing

GETTY

Getty Search Gateway

[Search Gateway Home](#) [Search History](#) [Help](#) [About Search Gateway](#) [Feedback](#)

national portrait gallery

HOME
VISIT
WHAT'S ON
COLLECTIONS
LEARNING
RESEARCH
BEYOND THE GALLERY
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SHOP

Collections

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Home > Collection > The Collection Online > Search the Collection > Sword Guard (Tsuba)

The Collection Online

LACMA 50

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Publishing

Proper identification

Proper attribution

Proper copyright

Inform



Inform

www.getty.edu/art/gettyguide/artObjectDetails?artobj=1044

Home • Museum • Research Institute • Conservation Institute • Foundation • Publications • Trust

Connect with Us • Visit • Shop

The J. Paul Getty Museum

Search getty.edu

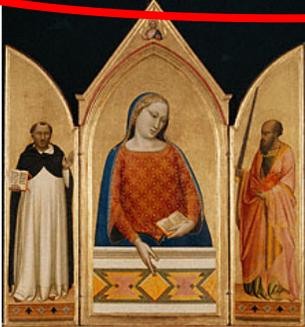
Exhibitions Collection Education Research and Conservation Publications Public Programs About the J. Paul Getty Museum

Print Share

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Collection
Education
Research and Conservation
Publications
Public Programs
About the J. Paul Getty Museum

Madonna, Saint Thomas Aquinas, and Saint Paul



Enlarge Zoom in

Bernardo Daddi
Italian, about 1330
Tempera and gold leaf on panel
Framed (with original engaged frame): 47 1/2 x 22 in.
93.PB.16

Detail Views

Tooling in halo

Technical Views

Pre-conservation image

Inform



Bernardo Daddi
Madonna, Saint Thomas Aquinas, and Saint Paul
Italian, about 1330 1330
Tempera and gold leaf on panel; Framed (with original engaged
frame): 47 1/2 x 22 inches
The J. Paul Getty Museum, 93.PB.16
©J. Paul Getty Trust



Can you lock metadata?

WORCESTER ART MUSEUM

Sarah Gillis, Journal of Digital Media Management Vol 4, no.3

“ensuring data integrity that will exist for the life of the digital file.”

“developing a bridge between the object record in the CMS and the archived spreadsheets of metadata that correspond with the image files”

“share images with end users knowing that the cataloguing information and pertinent copyright information are retained within the actual image file”

Can you hide metadata?



Matthias Arnold, Heidelberg Research Architecture – Visual Resources

Marta Bustillo, National College of Art and Design (Ireland)

Heidi Eyestone Carleton College

Sheryl Frisch, Cal Poly, San Luis Obispo

Stephen Jennings, Fine Arts Library, Harvard

Heidi Raatz, Minneapolis Institute of Arts

Greg Reser, UCSD

Steve Tatum, Virginia Tech

Links

VRA:

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

VRA Emwg:

metadatadeluxe.pbworks.com

PowerPoint tool:

<http://metadatadeluxe.pbworks.com/w/page/65714041/MetaShotPpt>

VRA info panel:

[http://metadatadeluxe.pbworks.com/w/page/32300275/VRA%20XMP%20Info%20Panel%20\(beta\)](http://metadatadeluxe.pbworks.com/w/page/32300275/VRA%20XMP%20Info%20Panel%20(beta))