Transforming and enhancing metadata for enduser discovery: a case study

Edward M. Corrado

Director of Library Technology ecorrado@binghamton.edu Rachel Jaffe Metadata Catalog Librarian rjaffe@binghamton.edu

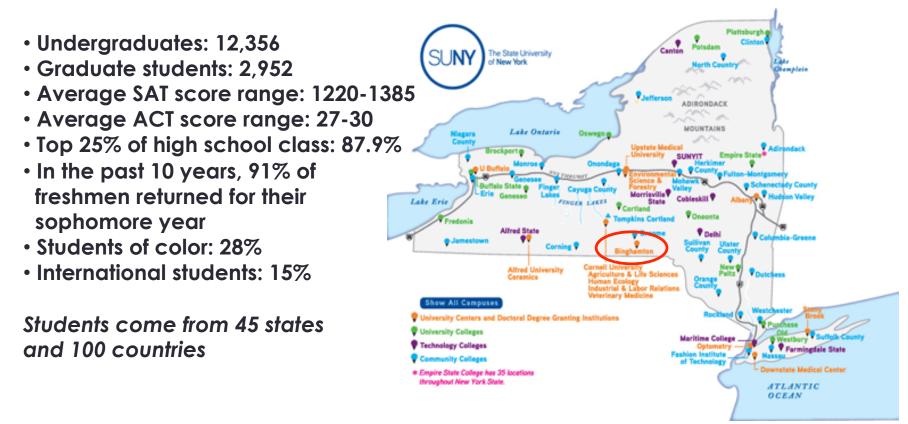
BINGHAMTON UNIVERSITY

STATE UNIVERSITY OF NEW YORK

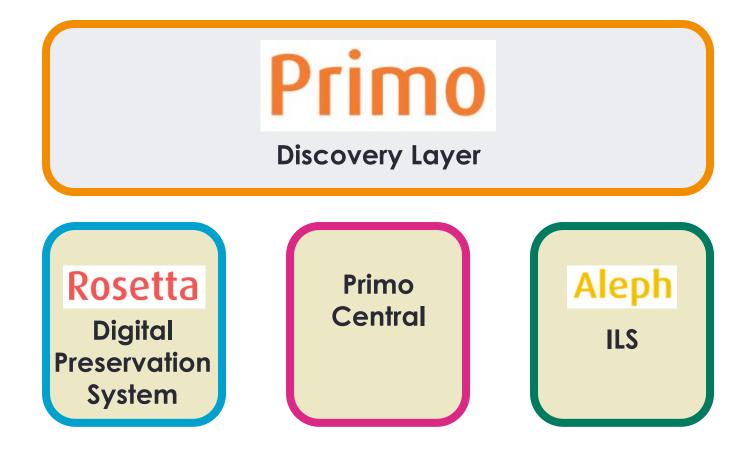


Binghamton University (SUNY)

Binghamton University, one of four comprehensive doctoral research universities within the State University of New York, is recognized for stellar academics, an international focus, high graduation rates and overall value.



Digital Preservation & Resource Discovery @ Binghamton



Digital Projects @ Binghamton



Digital Projects @ Binghamton



University Photographs Collection: University Photographer's Workflow

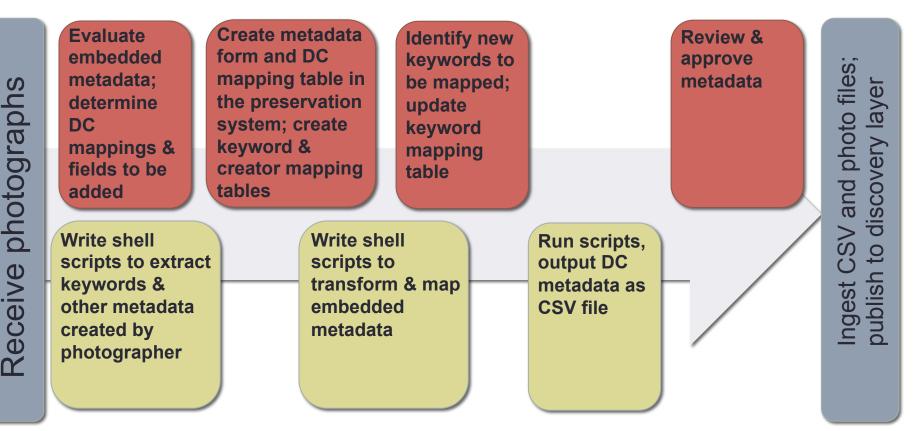


University Photographs Collection: University Photographer's Workflow

				20091003_h	omecoming01	0_jwc.tif					
Description	IPTC	Camera Data	Video Data	Audio Data	Mobile SWF	Categories	Origin	DICOM	History	Illustrator	• •
Document	Title:										
Au	thor: JON	NATHAN COHEN									
Author	Title: UN	IVERSITY PHOTOGR	APHER								
Descrip		NATHAN COHEN/BI Binghamton Unive			r the Men's Socc	er team during a	a game with	the Universi	ity of Rhode	Island,	
Ra	ting: ★	\star \star \star									
Description W	riter: JC										
Keyw	ords: 200	09; events; on camp	us; homecomi	ng; fans; studen	ts; spectators; so	occer; varsity; m	ens; athletic	s; cheer; ce	lebrate; scre	am	
	i	Semicolons or com	mas can be use	ed to separate m	ultiple values						
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Copyright No	otice: JON	ATHAN COHEN/BI	NGHAMTON UN	IVERSITY							
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Overview of the Libraries' Workflow Initial Set-up

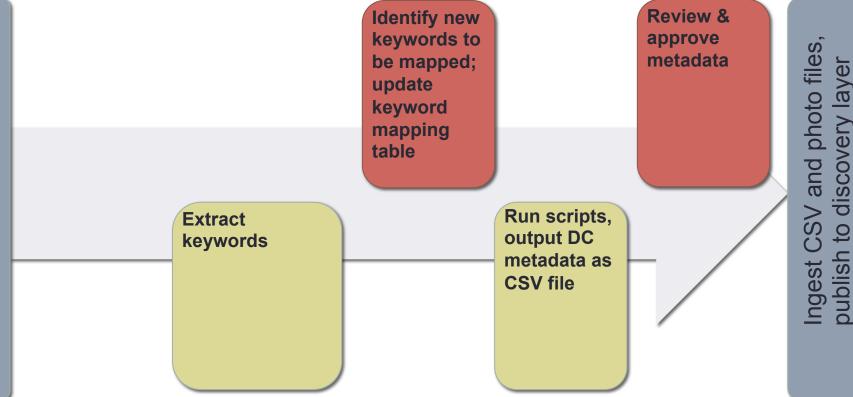
Metadata Librarian



Director of Library Technology

Overview of the Libraries' Workflow Subsequent Loads

Metadata Librarian



Director of Library Technology

Extracting, Evaluating and Transforming Metadata

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ecorrado@ecorrado:~/exlibris/rosetta/university_photo/cumulus\$ exiftool -X -XMP-dc:* -XMP-photoshop:* 20091003_homecoming010_jwc.
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<rdf:li>celebrate</rdf:li>
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<pre><xmp-dc:description>JONATHAN COHEN/BINGHAMTON UNIVERSITY The Riseburtee Mainseith student section shares for the Man[®]#2015 Sector team during a same with the Mainsecity of Dhade Jeland</xmp-dc:description></pre>
The Binghamton University student section cheers for the Men's Soccer team during a game with the University of Rhode Island, Saturday night, October 3, 2009. The game ended in a 1-1 tie.
<pre><xmp-dc:creator>JONATHAN COHEN</xmp-dc:creator></pre>
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<xmp-photoshop:history></xmp-photoshop:history>
corrado@corrado:~/exlibris/rosetta/university_photo/cumulus\$

Extracting, Evaluating and Transforming Metadata

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xmlns:XMP-dc='http		dcterms:isPartOf	Binghamton University Photographs
xmlns:XMP-photosho <xmp-dc:format>imag</xmp-dc:format>		dcterms:isPartOf	Binghamton University 2009 Homecoming Photos
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<rdf:li>celebrate <rdf:li>scream<td>XMP-dc:Creator</td><td>dc:creator</td><td></td></rdf:li></rdf:li>	XMP-dc:Creator	dc:creator	
 	XMP-dc:Creator	dc:rightsHolder	
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Saturday night, Oci	XMP-dc:Description	dc:description	
<xmp-dc:creator>JON <xmp-photoshop:colo< td=""><td>XMP-dc:Subject</td><td>dc:subject</td><td></td></xmp-photoshop:colo<></xmp-dc:creator>	XMP-dc:Subject	dc:subject	
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 ecorrado@ecorrado:~,		dc:identifier	

events>homecoming 2009

- 161 2009
- 152 on campus
- 152 events
- 146 homecoming
- 101 alumni
 - 52 events center
 - 52 <u>ec</u>
 - 39 fine arts building
 - 39 <u>fa</u>
 - 35 memorial
 - 29 students
 - 28 wine
 - 28 party
 - 28 cheese

- events>homecoming 2009
 - 161 2009
 - 152 on campus
 - 152 events
 - 146 homecoming
 - 101 alumni
 - 52 events center
 - 52 <u>eg</u>
 - 39 fine arts building
 - 39 <u>fa</u>
 - 35 memorial
 - 29 students
 - 28 wine
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 - 28 cheese

- <u>events</u>≿homecoming 2009
 - 161 2009
 - 152 on campus
 - 152 events
 - 146 homecoming
 - 101 alumni
 - 52 events center
 - 52 ec
 - 39 fine arts building
 - 39 <u>fa</u>
 - 35 memorial
 - 29 students
 - 28 wine
 - 28 party
 - 28 cheese

Events (dcterms:TGM)

Class reunions--New York (State)--Binghamton (dcterms:LCSH)

State University of New York at Binghamton--Alumni and alumnae (dcterms:LCSH)

Events Center (dcterms:spatial)

Fine Arts Building (dcterms:spatial)

Fine Arts Building. Memorial Courtyard (dcterms:spatial)

State University of New York at Binghamton--Buildings (dcterms:LCSH)

State University of New York at Binghamton--Students (dcterms:LCSH)

	Events (dcterms:TGM)
events>homecoming 2009	Class reunionsNew York (State)
161 2009	Binghamton (dcterms:LCSH)
152 on campus	State University of New York at
152 events	BinghamtonAlumni and alumnae
146 homecoming	(dcterms:LCSH)
101 alumni	Events Center (determinential)
52 events center	Events Center (dcterms:spatial)
52 <u>ec</u>	Fine Arts Building (dcterms:spatial)
39 fine arts building	
39 <u>fa</u>	Fine Arts Building. Memorial
35 memorial	Courtyard (dcterms:spatial)
29 students	State University of New York at
28 wine	BinghamtonBuildings
28 party	(dcterms:LCSH)
28 cheese	State University of New York at
	State University of New York at BinghamtonStudents
	y

(dcterms:LCSH)

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73		BinghamtonStudent housing		
	college of community and public	State University of New York at		
_	affairs	Binghamton. College of Community and		
74		Public Affairs		
	ссра	State University of New York at		
75		Binghamton. College of Community and		
75		Public Affairs		
	commencement	Commencement ceremoniesNew York		
76		(State)Binghamton		
	graduation	Commencement ceremoniesNew York		
77		(State)Binghamton		
	computer science	State University of New York at		
78		Binghamton. Dept. of Computer Science		
	construction	State University of New York at		
79		BinghamtonBuildings		
	council for higher education	Council for Higher Education		
80	accreditation	Accreditation (U.S.)		
	chea	Council for Higher Education		
81		Accreditation (U.S.)		
	couper administration building	State University of New York at		Couper Administration Building
82		BinghamtonBuildings		
	couper	State University of New York at		Couper Administration Building
83		BinghamtonBuildings		
	courtyard			Fine Arts Building. Memorial Courtyard
14	Name Authorities Subject	II t Terms / Sports Teams / BU LCSH from L		

Technical Details: Shell Scripts

Key tools:

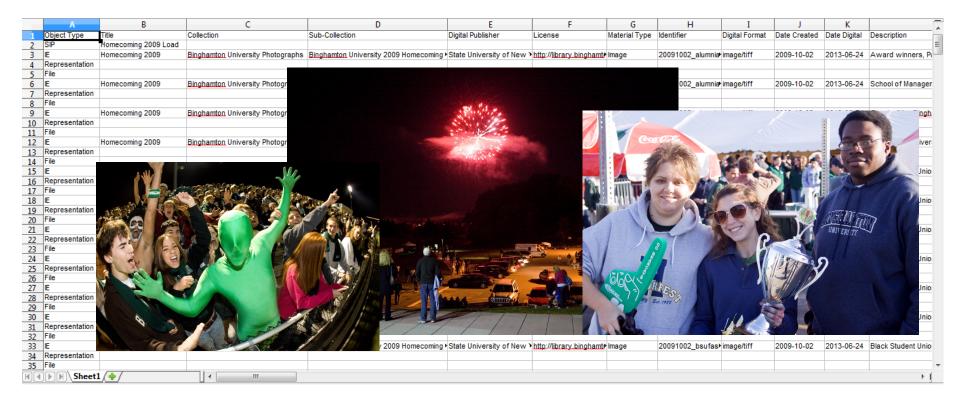
- exiftool
- awk
- sed
- echo

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Making a Deposit

	A	В	с	D	E	F	G	Н	I	J	K	_
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3	IE	Homecoming 2009	Binghamton University Photographs	Binghamton University 2009 Homecoming	State University of New 1	http://library.binghamtr	Image	20091002_alumnia	image/tiff	2009-10-02	2013-06-24	Award winners, Pr
4	Representation											
5	File											
6	IE	Homecoming 2009	Binghamton University Photographs	Binghamton University 2009 Homecoming	State University of New 1	http://library.binghamt/	Image	20091002_alumnia	image/tiff	2009-10-02	2013-06-24	School of Manager
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8	File											
		Homecoming 2009	Binghamton University Photographs	Binghamton University 2009 Homecoming	State University of New 1	http://library.binghamtr	Image	20091002_alumnia	image/tiff	2009-10-02	2013-06-24	Guest of the Bingh
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Making a Deposit



$CSV + images files \rightarrow preservation system$

Metadata Display

BINGHAMTON

Homecoming 2009



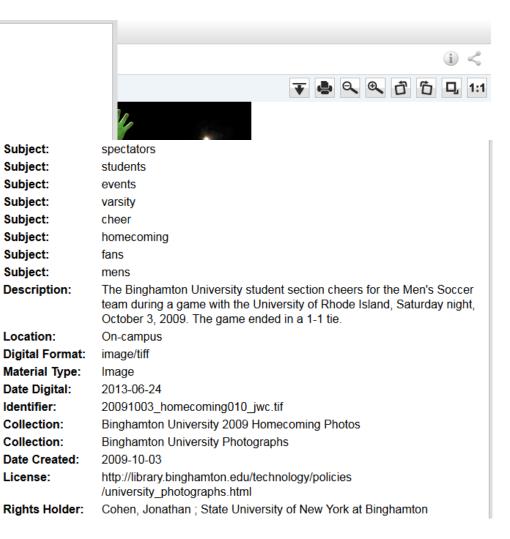
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Terms of Use

Metadata Display

Descriptive Metadata - IE DC

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Creator:	Cohen, Jonathan
Publisher:	State University of New York at Binghamton
Subject (TGM):	Spectators
Subject (TGM):	Fans (Persons)
Subject (TGM):	Events
Subject (LCSH):	Class reunionsNew York (State)Binghamton
Subject (LCSH):	Sports teamsNew York (State)Binghamton
Subject (LCSH):	Cheerleading New York (State) Binghamton
Subject (LCSH):	State University of New York at BinghamtonSoccer
Subject (LCSH):	State University of New York at BinghamtonSports
Subject (LCSH):	State University of New York at Binghamton. Bearcat
Subject (LCSH):	State University of New York at Binghamton Pictoria
Subject (LCSH):	Universities and colleges New York (State) Binghar
Subject (LCSH):	State University of New York at BinghamtonStuden
Subject:	2009
Subject:	celebrate
Subject:	athletics
Subject:	on campus
Subject:	scream
Subject:	soccer



Questions?

Contact: rjaffe@binghamton.edu ecorrado@binghamton.edu

• Special thanks to:

Jonathan Cohen University Photographer Binghamton University