Workshop: Introduction to Digital Projects

October 20, 2017

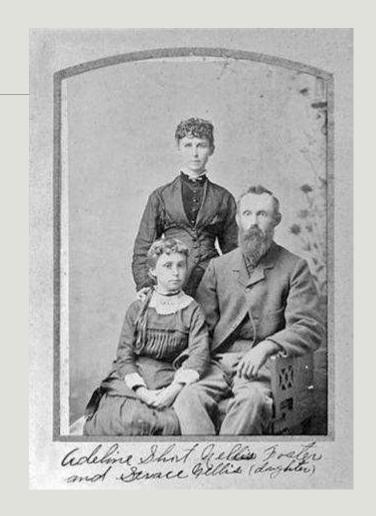
Ann Hanlon

Head, Digital Collections and Initiatives, University of Wisconsin-Milwaukee



Today's agenda

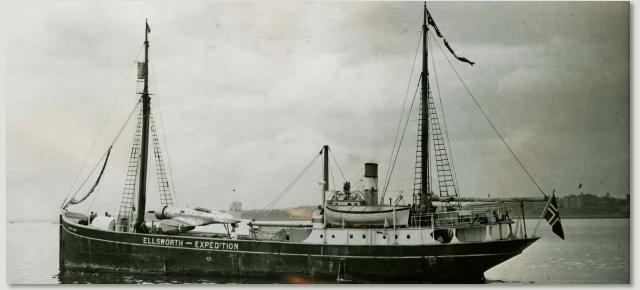
- Introductions
- Overview: Why do we digitize? (1:00-1:45)
- Planning (partnerships, timelines, budgets), 1:45-2:00
- Selection and Copyright, 2:00-2:30
- Reformatting (Scanning!), 2:30-2:45
- BREAK 2:45-3:00
- Storage and preservation, 3:00-3:10
- Metadata, 3:10-3:40
- Audiences and Stakeholders, 3:40-4:00



Waterford Public Library/University of Wisconsin Digital Collections

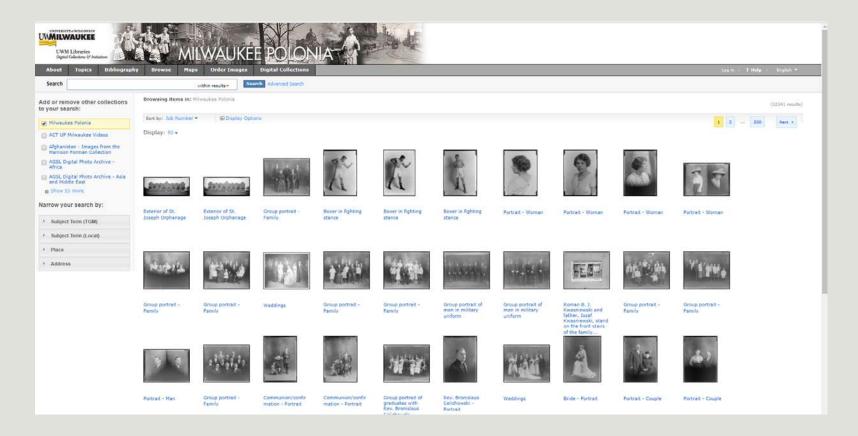
Introductions and Questions about you...

- How many of you...
 - Have done a digital project?
 - Have digitized some stuff but aren't sure what to do with it?
 - Have been thinking about it?



Ellsworth's Antarctica ship (Wyatt Earp) and airplane (Polar Star), Dunedin, 1933-34. Polar Exploration: Images from the American Geographical Society Library, UWM Digital Collections

Why do we digitize?

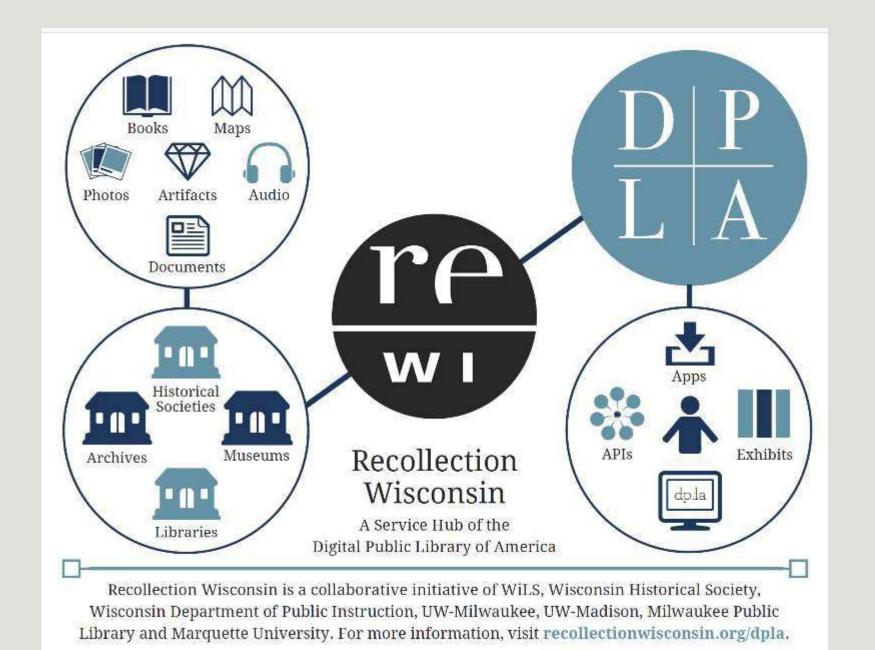


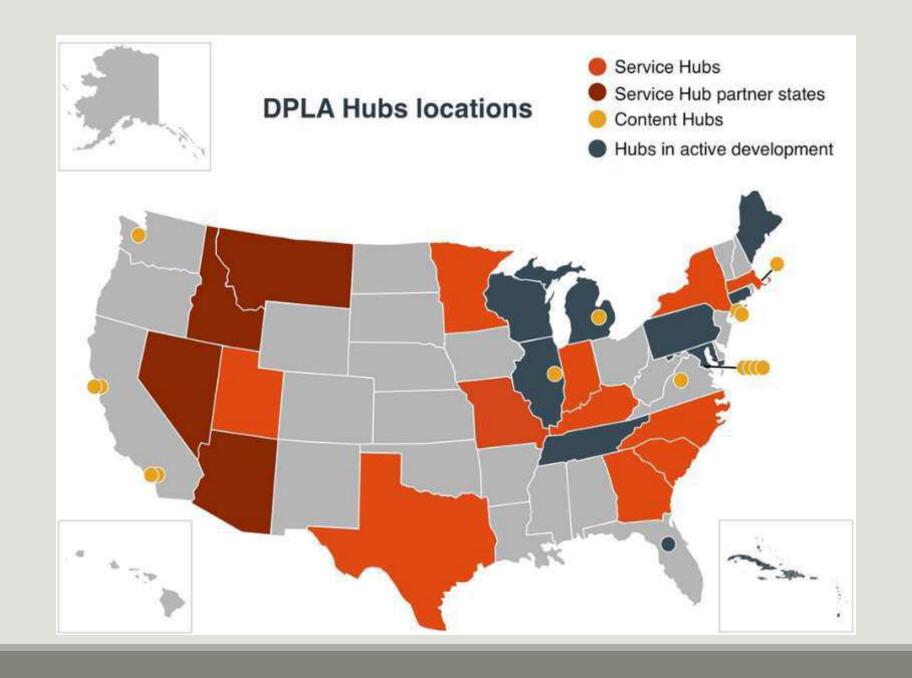
Why do we digitize?



Why do we digitize?







Building a digital collection

- Selecting materials
- Reformatting materials (scanning, photographing)
- Creating metadata

 (standardized and searchable descriptive information)
- Storing and maintaining digital files and metadata
- Providing access



Wisconsin Historical Society

Building a digital collection

Five Core Elements

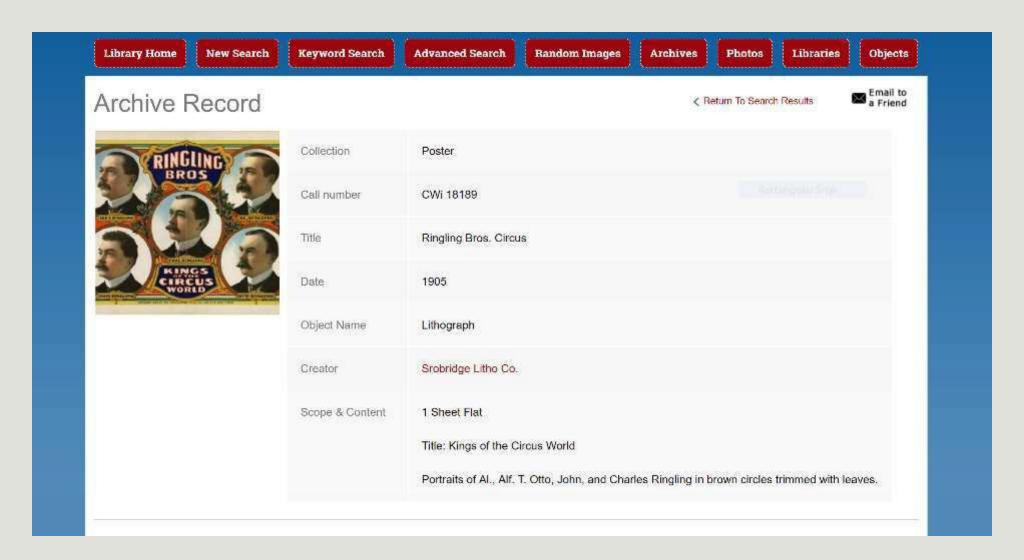
- Select
- Scan
- Describe
- Store
- Share

Examples

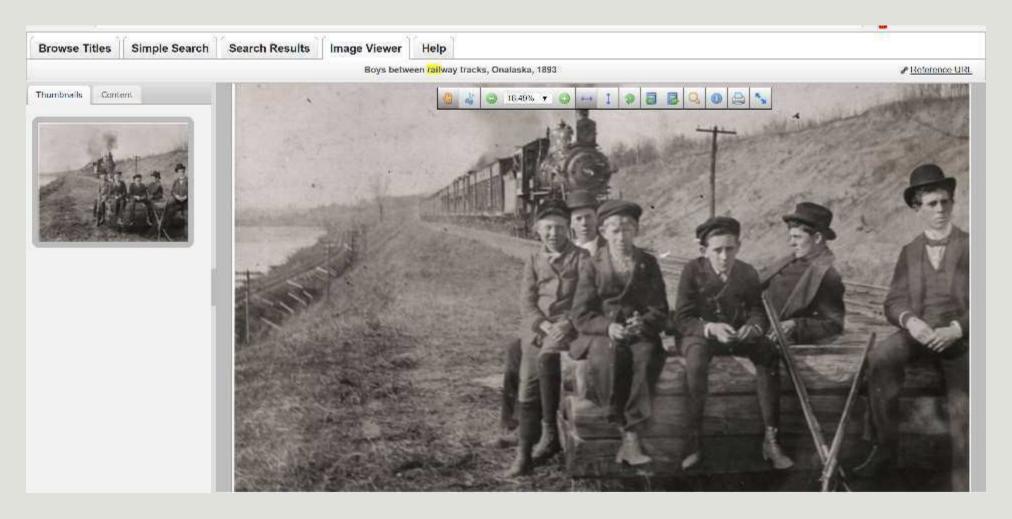
- Langlade County Historical Society
 - http://content.mpl.org/langlade
- Circus World Museum
 - http://circus.pastperfectonline.com
- Winding Rivers Library System
 - http://www.wrlsweb.org/echo/



http://content.mpl.org/langlade



http://circus.pastperfectonline.com



http://www.wrlsweb.org/echo/

Planning – Partnerships

Team up with your local public library

- Monarch Library System
- Indianhead
 Federated LS and WI
 Valley Library Service
- Lakeshores Library System
- Outagamie
 Waupaca and
 Nicolet Federated LS

- South Central Library System
- Winding Rivers Library System

Planning - timeline

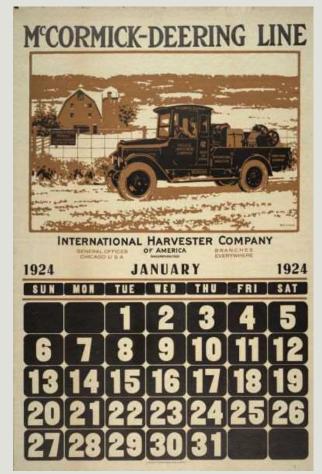
Timeline will vary greatly depending on...

- Project scope
- Types of materials
- Staffexperience
- Availableresources

One model:

- 1/3 reformatting
- 1/3 metadata
- 1/3 management, quality control, etc.

Source: Steven Puglia, "The Costs of Digital Imaging Projects," RLG DigiNews v. 3, no. 5 (1999)



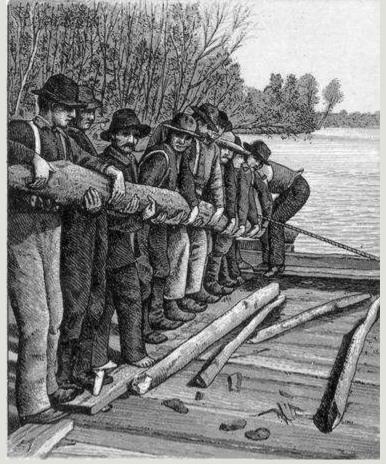
Planning - budget

Potential project costs:

- Hardware and software
- Outsourcing to a vendor
- Storage for digital files
- Online access platform
- Archival storage supplies
- Staff/interns/volunteers

Digitization Cost Calculator (*note*: this tool will get better over time with more and more data):

http://dashboard.diglib.org/



McMillan Memorial Library, Wisconsin Rapids

Finding funding

Grants:

- WI Council for Local History mini-grants
- Wisconsin Humanities Council
- Regional/local corporations or foundations

In-kind contributions:

- Tech support
- Equipment use
- Promotion
- Labor



Ripon College

Tips from other digitizers

If I could do it all over again, I would:

- Tackle a smaller group of materials at first
- Make sure two people started the project at the same time so we could help each other
- Start with a clearer plan
- Take the time to sort and research the physical collection before digitizing
- Have firm deadlines to help me stay on track

Document your decisions

- Document...
 - How you did it
 - Why you did it
 - Where you put it



Sinclair Lewis Typing Image ID: WHi-51874

Digital Project Planning Worksheet

http://recollectionwisconsin.org/localhistory17

Small group discussion



Murphy Library, UW-La Crosse

 Describe a current project you're working on, or a collection you're considering digitizing.

SHARE....

- Why are you digitizing (or planning to digitize) these materials?
- What challenges have you encountered (or might encounter in the future)?

Select



Wisconsin Historical Society WHi-36392

Three Key Questions

- Should I digitize it?
 - Can I digitize it?
 - May I digitize it?



Milwaukee Public Library

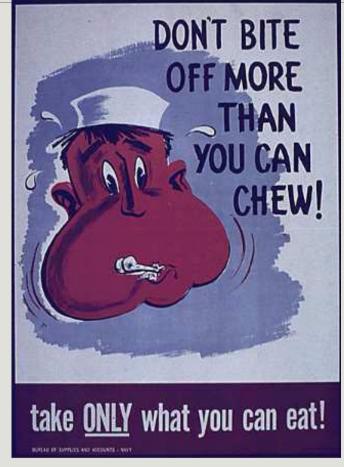
Should 1?

Which materials are...

- most significant to the story of your community?
- most requested/ used?
- easiest?
- at risk?

Scope, Size, and Capacity

- Clearly define the scope of your project.
 - Be disciplined about subject scope and significance.
- Be realistic about the scale of your project.
 - Start small. Don't bite offmore than you can chew!



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National Archives

Don't scan a mess!

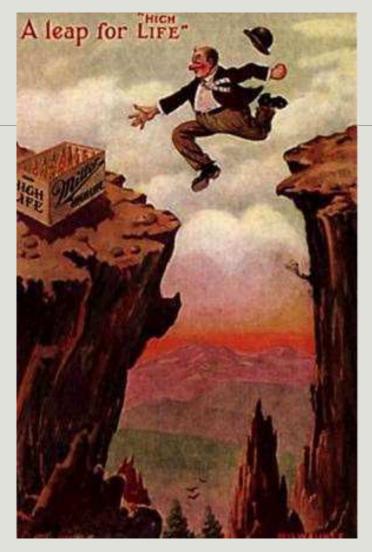
Minimally processed collection

Can I?





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UW-Milwaukee Libraries

May I?

Considering copyright

Owning a physical item does not (generally) mean you hold the copyright to that item.

What's the copyright status?

- Item is in the public domain
 - No longer under copyright; you're free to use
- Item is in copyright
 - Contact copyright holder to request permission to publish online (unless copyright has been transferred to your institution)
- Item is an orphan work: presumed to be in copyright, but copyright holder is unknown or cannot be located
 - Risk management decision

What's in the public domain in 2016?

- Any work published before 1923 (does not cover unpublished materials!)
- Works published between 1923-1977; copyright was not registered or renewed
- Unpublished works; creator died before 1946
- Unpublished, anonymous works created before 1896

http://rightsstatements.org



Scan



St. Norbert College

Philosophy of Reformatting

Reformat once

- Less handling = less wear
- Do it right the first time
- Digitize for the future:
 high quality

Reformatting costs money

- Equipment
- Storage Space
- Time



National Archives and Records Administration

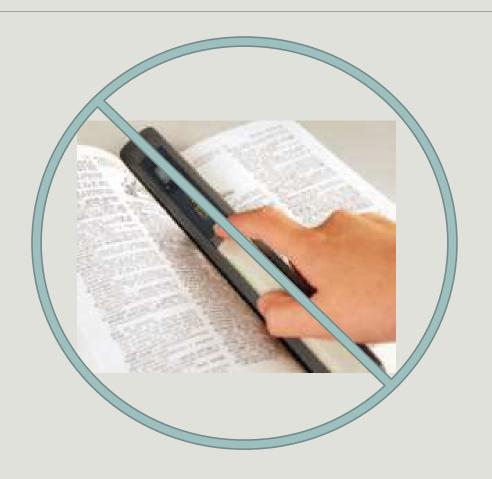
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When NOT to scan it yourself

- Oversized materials
 - Maps, blueprints, etc.
- Fragile books, scrapbooks, glass plates, etc.
 - Bindings can be damaged by laying flat to scan
 - Anything with flaking, cracked or otherwise fragile surface
- Newspapers or other microfilm
- Oral histories, film, or other a/v materials
 - RADD at UW-Madison SLIS
 - NEH WI veterans' oral histories project

Hardware and software

- Flatbedscanner
 - Consider size of scanning bed
- Scanners for special formats
 - Slides
 - Overhead/book scanner
 - Digital camera
- No scanning "wands" or similar devices
- Photo editing software
 - Photoshop
 - GIMP (open source)



Scanning images

Resolution (ppi) depends on size of original

Size	Min. resolution
35mm slide	4000ppi
3" x 5"	800ppi
5" x 7"	625ppi
8" x 10"	400ppi

- 24-bit color or
- 8-bit grayscale
- Save as uncompressed TIFF

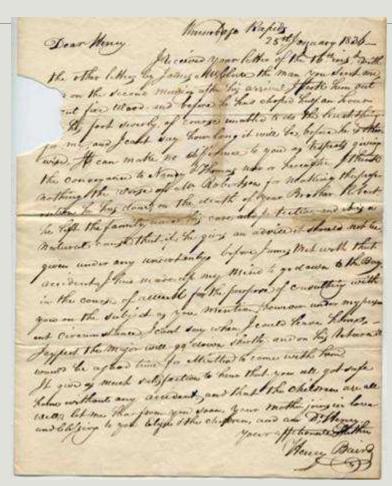


Murphy Library, UW-La Crosse

Scanning text

Handwritten texts

- 400ppi
- 24-bit color
- Save as uncompressed TIFF
- Transcribe (if feasible)



Scanning text

Printed texts

- 300ppi
- 8-bit grayscale
- Save as uncompressed TIFF
- Use OCR (Optical Character Recognition) software to generate a searchable transcript



General tips

- Turn off all "auto" settings
- Scan one image at a time
- Crop afterscanning
- Handle carefully and return to proper storage ASAP



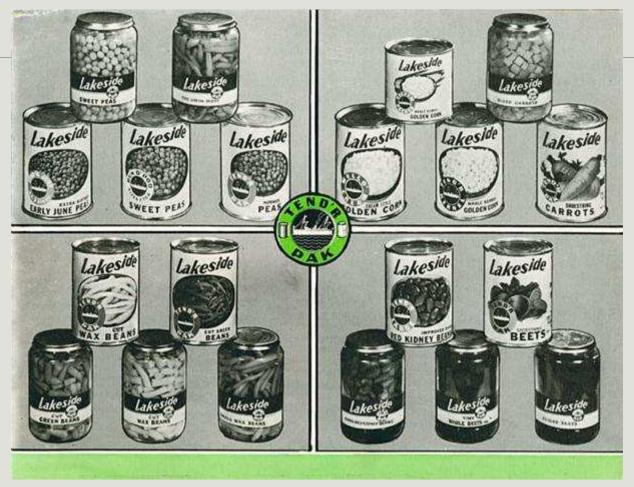
Neville Public Museum of Brown County

Scanning: Quality control

- Review digital fileson a regular schedule
- Especially important when working with volunteers, students or vendors!

- Some things to look for:
 - File can be opened
 - File name follows convention
 - Image is not skewed or off-center
 - No unwanted materials (dust, hair) or digital artifacts

Store



Manitowoc Public Library/ University of Wisconsin Digital Collections

Key Decision Points

- How many copies are you going to make?
- What are you going to store them on?
- Where are you going to store them?



Post Office Image ID: WHi-9135

Maintaining files over time

LOCKSS: "Lots of copies keep stuff safe"

- 2 x 2 x 2
 - Save two copies of each file
 - In two different locations
 - On two different types of storage media

One TIFF master file (scanned photo) = 20-40MB



UW-Madison Archives

Storage media

Technology	Size	Stability	Cost
Flash storage	4 – 256 GB	5-20 years or less	\$0.50/GB
Hard drive	1 TB – ?	25-30 years, prone to mechanical failure	\$0.05/GB +++
DVD-R/+R	4.7 GB	100-200 years (?) for high-quality media	\$2.50- 4.00/disc = \$0.50- 0.85/GB
The Cloud	1 – 30 TB	?	\$0.002- 0.10/GB monthly

Document your decisions

- Document...
 - Where is it?
 - Who can access it?(and how)
 - Filenaming convention



Sinclair Lewis Typing Image ID: WHi-51874

File naming

- Keep folder labels and file names short
- Keep naming conventions simple and logical
- Use only lower case letters, numbers, and dashes or underscores
- Don't use spaces or special characters
 (^" <> | ?\ / : @' * &.)



File naming: Examples

- Photograph with accession # 2011.32.1
 201132001.tif OR 2011_32_001.tif
- Series of images by photographer John Smith smith001.tif, smith002.tif, smith003.tif
- Not so good ...

Glassplate16039 Auto repair in basement025.tif MPLA.004.95.Vine.003.a.jpg

Share



Milwaukee Public Library

Metadata: what is it?

- Descriptive metadata = information about the content of the item
 - What am I looking at?
 - Who created it? When? Where?
 - Who owns it?
 - How can I use it?



Grant County Historical Society

Wisconsin Dells, Wisconsin



Get full image from University of Wisconsin Digital Collections

Created Date	1930-01-01/1939-12-31	
Partner	Recollection Wisconsin	
Contributing Institution	University of Wisconsin Digital Collections	
Description	PHOTO DESCRIPTION: A postcard of Howard White Thunder, a Riverview guide, standing on and pointing forward on an excursion boat on the river in Wisconsin Dells, Wisconsin in the 1930s.	
Location	WisconsinWisconsin Dells	
Туре	image	
Subject	Cities and towns	
	Excursion boats	
Rights	This image cannot be copied or reproduced without the permission of the University of Wisconsin-La Crosse, Murphy Library, Special Collections	
URL	http://digital.library.wisc.edu/1711.dl/SSRecIDSearch? repl1=LaCrosseSteamboat&repl2=LaCrosseSteamboat.steam27577 bib	





Metadata is what makes your digital content discoverable, searchable and useful.

Recollection Wisconsin: Required metadata elements

Field label	Definition
Title	Title of item. Assigned by author, or by you
Subject	Keywords selected from a controlled vocabulary list
Туре	Image, Text, Sound
Rights	Information about copyright status.

Recollection Wisconsin:

Field Name	Sample Data
Creator	Bartle, F. C.
Date	1920-1930
Materials	Photographs
Description	Ralph DiVall (left) and Edwin T. Baltes (right) shave two men seated in barber chairs. According to a family history on file at the Society, DiVall operated this barber shop from the 1920s until his retirement on July 1, 1966.
Location	Middleton, Wisconsin
Collection	DiVall Family Collection



Middleton Area Historical Society

How to gather descriptive metadata

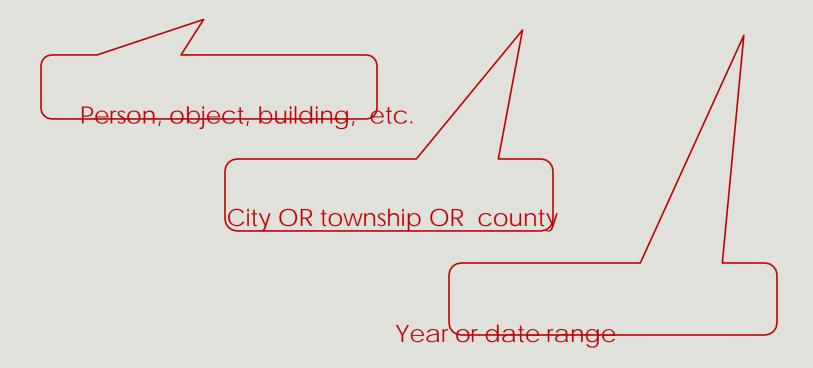
- Captions, photo backs
- From the item: names, dates, and places, visual cues from photograph like clothing styles and architecture
- Informal or formal inventory
- Background information like local newspaper articles, encyclopedia articles

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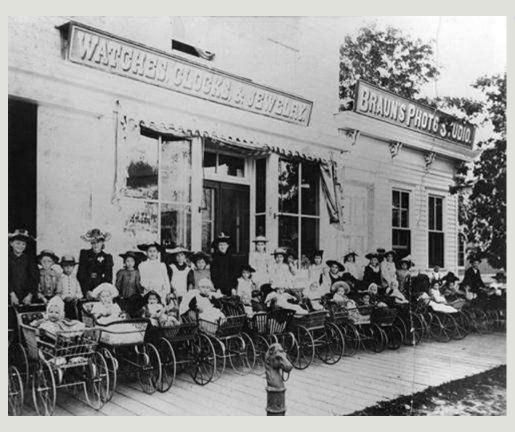


Creating titles for photos

SUBJECT, LOCATION, DATE

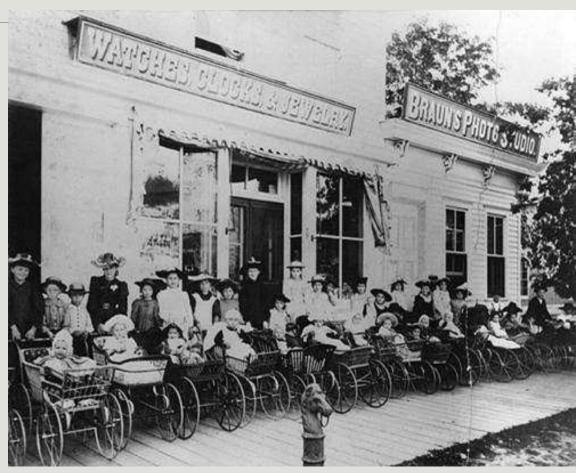


People and places



- Identify...Who? Where?
 When?
 - Women
 - Children
 - Babies
 - Carriages/strollers
 - Stores/shops
 - Boardwalk
 - Marathon County
 - 1890-1899

Women and children with babies in carriages, Manitowoc County, 1890-1899



(SUBJECT, LOCATION, DATE)

Buildings and cityscapes



- Identify the name of the street or view
- Identify the location (City OR Township OR County)
 - Identify the date (Year? Date range?)

100 block of South Main Street, Fort Atkinson, 1940-1949



(SUBJECT, LOCATION, DATE)

Metadata: Subject headings

- Terms or phrases assigned to an item to facilitate searching and browsing a collection.
- Consistent use of subject headings helps link related content in your collection and across disparate collections.



Controlled vocabularies

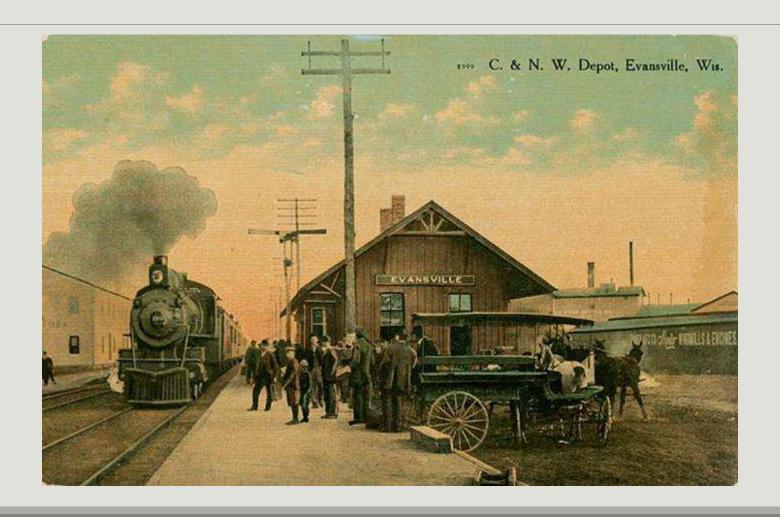
- A controlled vocabulary is a standardized, predetermined list of subject headings.
- Some examples of controlled vocabularies:
 - Library of Congress
 Thesaurus for Graphic
 Materials
 - Library of Congress
 Subject Headings
 - Getty Art and Architecture Thesaurus
 - Nomenclature 4.0

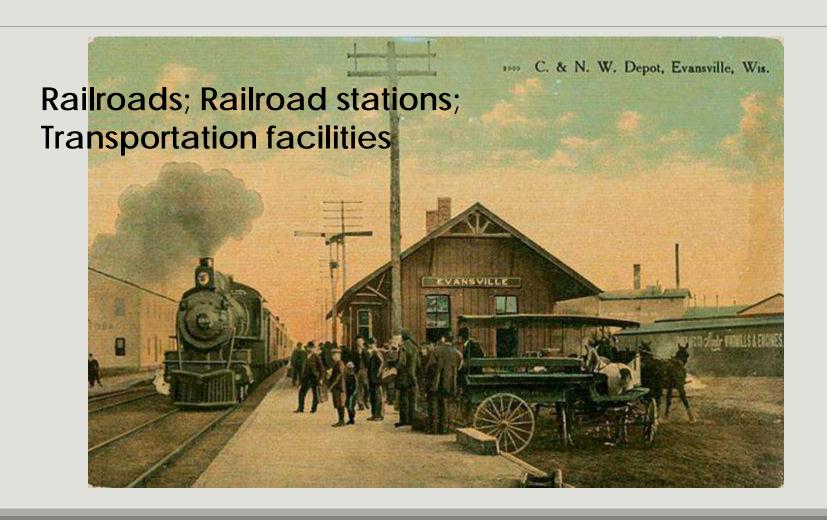


New Berlin Historical Society

Tips for assigning subject headings

- Consider the following elements to help select terms:
 - WHO? People age, gender, occupation, ethnicity
 - WHERE? Building or other setting
 - WHAT? Activities or events
- How did others do it? Look at similar materials/collections for examples
- Aim for 1-5 terms.
- There is no one right answer!









Students; Music; Musical instruments; Musicians

Metadata practice

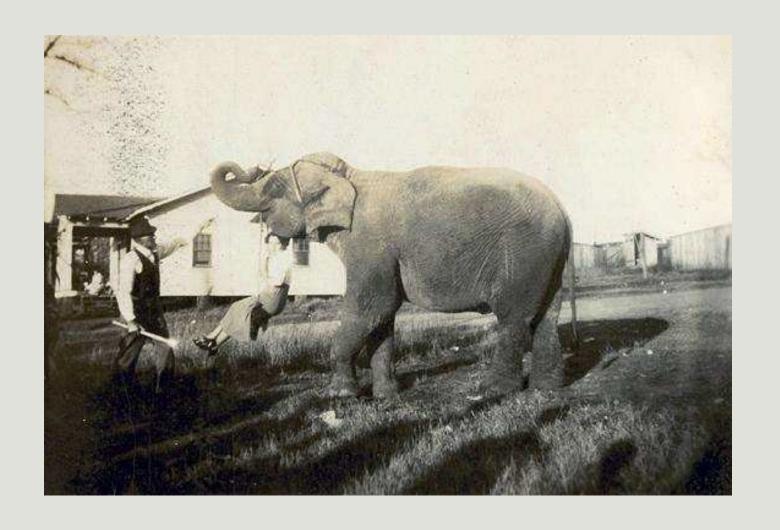
Assign a title and subject(s) to a photo.

Remember the basic title formula:

• SUBJECT, LOCATION, DATE

Select 1-5 subject terms from the short list extracted from the Library of Congress Thesaurus for Graphic Materials (handout).

Full version: http://www.loc.gov/rr/print/tgm1/

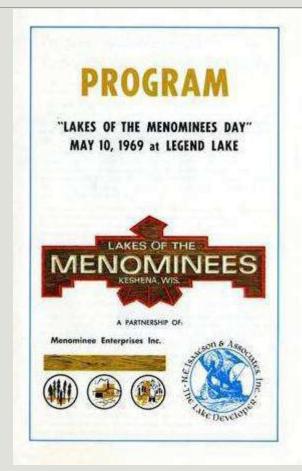


Share (continued)



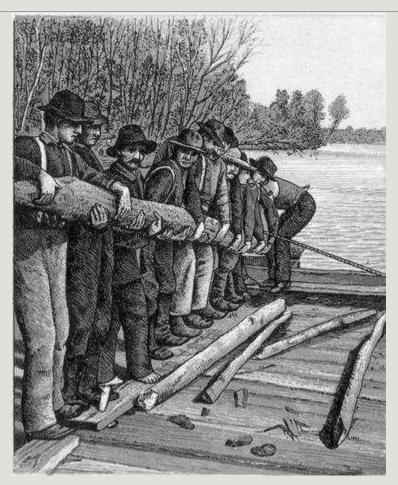
Potential audiences

- Local residents and former residents
- Students and teachers
- Genealogists
- Specialists (e.g. Civil War re-enactors, railroad buffs)
- Academic researchers
- Curious Wisconsinites



Stakeholders and partners

- Board
- Staff and/or volunteers
- Local experts
- Community members
- Chamber of Commerce
- Local government
- Students
- Other organizations in your community/ county/region



McMillan Memorial Library, Wisconsin Rapids

Encouraging use

- Add introduction/background information on your own website
- Highlight an item of the day/week/month
- Host an opening event
- Host a slide show or exhibition



Milwaukee Public Library

Marketing ideas

- Send someone with a laptop or tablet to popular local spots/events to demonstrate digital collections
- Contribute to relevant pages on Wikipedia and include references pointing to specific digital materials.
- Request that the Chamber of Commerce and other relevant local organizations link to the new digital collections from their websites.
- Send a press release to local media

Thank You!

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Slides and handouts: recollectionwisconsin.org/localhistory17

Special thanks to Emily Pfotenhauer and Melissa McLimans, Recollection Wisconsin, who developed this workshop



Mineral Point Historical Society