

# A METS APPLICATION PROFILE

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FOR INFX 531, AUTUMN 2015

# Outline

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- ❖ Introduce the collection
- ❖ Introduce the users
- ❖ Go over the scope and objectives of AP
- ❖ Explain metadata standard choices
- ❖ Discuss how the different schemas were used
- ❖ Provide an example of an item encoded in METS
- ❖ Make suggestions for future implementers

# Before we begin...

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Image Source: <http://www.loc.gov/pictures/resource/hec.46978/>



# Metadata Encoding & Transmission Standard

[Official Web Site](#)

- ❖ Able to handle management and exchange of digital objects
- ❖ Great deal of structural detail
- ❖ Flexible
- ❖ Well documented and free to use

# The collection

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- ❖ Images featuring quilts
- ❖ Negatives, film, and digital
- ❖ Collection(s): multiple
- ❖ Repository: Library of Congress Prints and Photographs Division



Image Source: [https://en.wikipedia.org/wiki/File:Gee's\\_Bend\\_quilting\\_bee.jpg](https://en.wikipedia.org/wiki/File:Gee's_Bend_quilting_bee.jpg)

# The users

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- ❖ Digital preservationists
- ❖ Digital curators
- ❖ Historians
- ❖ Artists and craftsmen
- ❖ Quilting enthusiasts
- ❖ General public

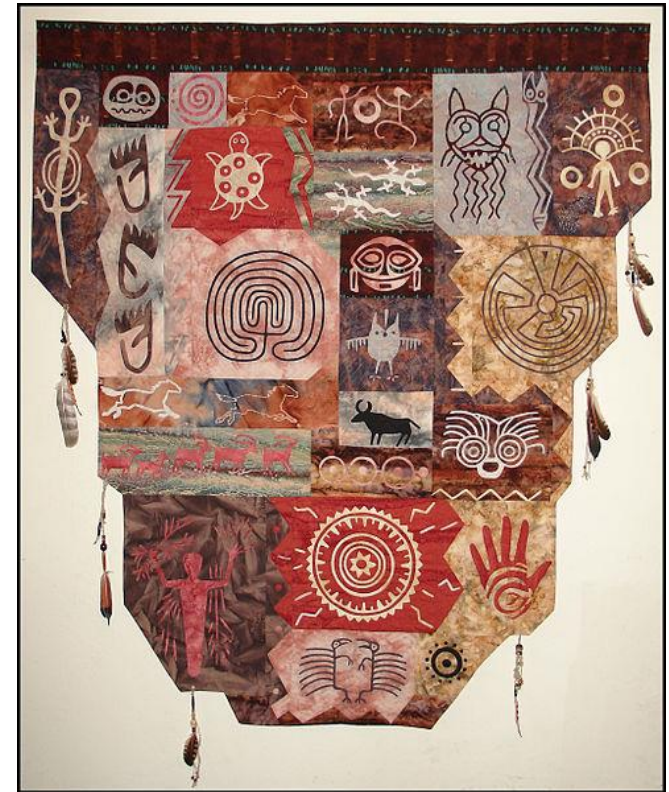


Image Source:  
[https://en.wikipedia.org/wiki/File:Art\\_Quilt\\_06.jpg](https://en.wikipedia.org/wiki/File:Art_Quilt_06.jpg)

# Scope and objectives

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- ❖ Improve accountability for the different manifestations of images
- ❖ Make digital images easier to include in digital collections
- ❖ Improve the ability of the public to locate items of interest to them
- ❖ Inspire artists and craftsman by connecting them with quilt designs featured in images



Image Source:  
[https://en.wikipedia.org/wiki/File:Star\\_of\\_Bethlehem\\_Quilt.jpg](https://en.wikipedia.org/wiki/File:Star_of_Bethlehem_Quilt.jpg)

# Metadata standards used

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<dmdSec> - CDWA Lite

<amdSec>

- <techMD> - MIX
- <rightsMD> - PREMIS



# Descriptive metadata – CDWA Lite

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- ❖ Designed for works of art and material culture
- ❖ Core set of CDWA which is based on:
  - Categories for the Description of Works of Art (CDWA)
  - Cataloging Cultural Objects: A Guide to Describing Cultural Works and Their Images (CCO)
- ❖ Descriptive / Administrative Metadata
- ❖ Makes use of “wrappers”

# Descriptive metadata – CDWA Lite

|         |                                 |                         |
|---------|---------------------------------|-------------------------|
| 0       | CDWA Lite: Descriptive Metadata |                         |
| 1       | objectWorkTypeWrap*             |                         |
| 1.1     |                                 | object/WorkType*        |
| 2       | titleWrap*                      |                         |
| 2.1     |                                 | titleSet*               |
| 2.2     |                                 | title*                  |
| 2.3     |                                 | sourceTitle             |
| 3       | displayCreator*                 |                         |
| 4       | indexingCreatorWrap             |                         |
| 4.1     | indexingCreatorSet*             |                         |
| 4.1.1   |                                 | nameCreatorSet*         |
| 4.1.1.1 |                                 | nameCreator*            |
| 4.1.1.2 |                                 | sourceNameCreator       |
| 4.2     | nationalityCreator              |                         |
| 4.3     | vitalDatesCreator               |                         |
| 4.4     | genderCreator                   |                         |
| 4.5     | roleCreator*                    |                         |
| 4.6     | attributionQualifierCreator     |                         |
| 4.7     |                                 | extentCreator           |
| 5       | displayMeasurements             |                         |
| 6       | indexingMeasurementsWrapper     |                         |
| 6.1     |                                 | indexingMeasurementsSet |
| 6.1.1   |                                 | measurementSet          |
| 6.1.2   |                                 | extentMeasurements      |
| 6.1.3   |                                 | qualifierMeasurements   |
| 6.1.4   |                                 | formatMeasurements      |
| 6.1.5   |                                 | shapeMeasurements       |
| 6.1.6   |                                 | scaleMeasurements       |

|        |                              |                      |
|--------|------------------------------|----------------------|
| 7      | displayMaterialsTech*        |                      |
| 8      | indexingMaterialsTechWrapper |                      |
| 8.1    |                              | indexingMaterialsSet |
| 8.1.1  |                              | termMaterialsTech    |
| 8.1.2  |                              | extentMaterialsTech  |
| 8.1.3  |                              | sourceMaterialsTech  |
| 9      | displayStateEditionWrapper   |                      |
| 10     | styleWrapper                 |                      |
| 10.1   |                              | style                |
| 11     | cultureWrap                  |                      |
| 11.1   |                              | culture              |
| 12     | displayCreationDate*         |                      |
| 13     | indexingDatesWrap*           |                      |
| 13.1   |                              | indexingDateSet*     |
| 13.1.1 |                              | dateQualifier        |
| 13.1.2 |                              | earliestDate*        |
| 13.1.3 |                              | latestDate*          |
| 14     | locationWrap*                |                      |
| 14.1   |                              | locationSet*         |
| 14.1.1 |                              | locationName*        |
| 14.1.2 |                              | workID               |
| 15     | indexingSubjectWrap          |                      |
| 15.1   |                              | indexingSubjectSet   |
| 15.1.1 |                              | extentSubject        |
| 15.1.2 |                              | subjectTerm          |

|        |                     |                       |
|--------|---------------------|-----------------------|
| 16     | classificationWrap  |                       |
| 16.1   |                     | classification        |
| 17     | descriptiveNoteWrap |                       |
| 17.1   |                     | descriptiveNoteSet    |
| 17.1.1 |                     | descriptiveNote       |
| 17.1.2 |                     | sourceDescriptiveNote |
| 18     | inscriptionsWrap    |                       |
| 18.1   |                     | inscriptions          |
| 19     | relatedWorksWrap    |                       |
| 19.1   |                     | relatedWorkSet        |
| 19.1.1 |                     | linkRelatedWork       |
| 19.1.2 |                     | relatedWorkRelType    |
| 19.1.3 |                     | labelRelatedWork      |
| 19.1.4 |                     | locRelatedWork        |

# Technical metadata – MIX

## MIX Terms

|       | Term                          | Refinement 1      | Refinement 2          | Definitions & Comments  |
|-------|-------------------------------|-------------------|-----------------------|---|
| 6     | basicDigitalObjectInformation |                   |                       | A container for a designation used to uniquely identify the object, comprised of two data elements: objectIdentifierType and objectIdentifierValue.   |
| 6.1   |                               | objectIdentifier  |                       | A data element that designates the system or domain in which the identifier is unique; to be used in conjunction with objectIdentifierValue.  |
| 6.1.1 |                               |                   | objectIdentifierType  | A designation of the domain within which the rights statement identifier is unique.   |
| 6.1.2 |                               |                   | objectIdentifierValue | A data element that provide the value of the ObjectIdentifier, related to objectIdentifierType.   |
| 6.2   |                               | fileSize          |                       | A data element that designates the size in bytes of the image file.   |
| 6.3   |                               | formatDesignation |                       | A container of information identifying the format of the object, comprised of two data elements (formatName and formatVersion)  |
| 6.3.1 |                               |                   | formatName            | A data element that designates the format name or description of the file format.   |
| 6.3.2 |                               |                   | formatVersion         | A data element that designates the version of the format named in formatName.   |
| 6.4   |                               | formatRegistry    |                       | A Container of information identifying or giving further information about the format by reference to an entry in a format registry, comprised of two data elements: formatRegistryName and formatRegistryKey.                |
| 6.4.1 |                               |                   | formatRegistryName    | A data element that identifies the referenced format registry.  |
| 6.4.2 |                               |                   | formatRegistryKey     | A data element that specifies the unique key used to reference an entry for this format in a format registry.   |
| 7     | basicImageInformation         |                   |                       | A container of information detailing the BasicImageCharacteristics of the digital object, comprised of two data elements: 1) imageWidth, 2) imageHeight as well as a container of data elements 3) PhotometricInterpretation. |
| 7.1   |                               |                   | imageWidth            | A data element that specifies the width of the digital image, i.e. horizontal or X dimension, in pixels.  |
| 7.2   |                               |                   | imageHeight           | A data element that specifies the height of the digital image, i.e. vertical or Y dimension, in pixels.   |

# Rights metadata - PREMIS

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## PREMIS Terms

|   | Term                   | Refinement 1                     | Refinement 2                          | Definitions & Comments   |
|---|------------------------|----------------------------------|---------------------------------------|--|
| 1 | <b>rightsStatement</b> |                                  |                                       | This semantic unit is optional because in some cases rights may be unknown. Institutions are encouraged to record rights information when possible. Either rightsStatement or rightsExtension must be present if the Rights entity is included. The rightsStatement should be repeated when the act(s) described has more than one basis, or when different acts have different bases. |
| 2 |                        | <b>rightsStatementIdentifier</b> |                                       | The designation used to uniquely identify the rights statement within a preservation repository [M, NR] system.  |
| 3 |                        |                                  | <b>rightsStatementIdentifierType</b>  | A designation of the domain within which the rights statement identifier is unique.  |
| 4 |                        |                                  | <b>rightsStatementIdentifierValue</b> | The value of the rightsStatementIdentifier .   |

# AP Walkthrough

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## ❖ METS

- kellycolht\_METS\_AP.xsd

## ❖ CDWA Lite

- kellycolht\_METS\_CDWALite.xsd

## ❖ PREMIS

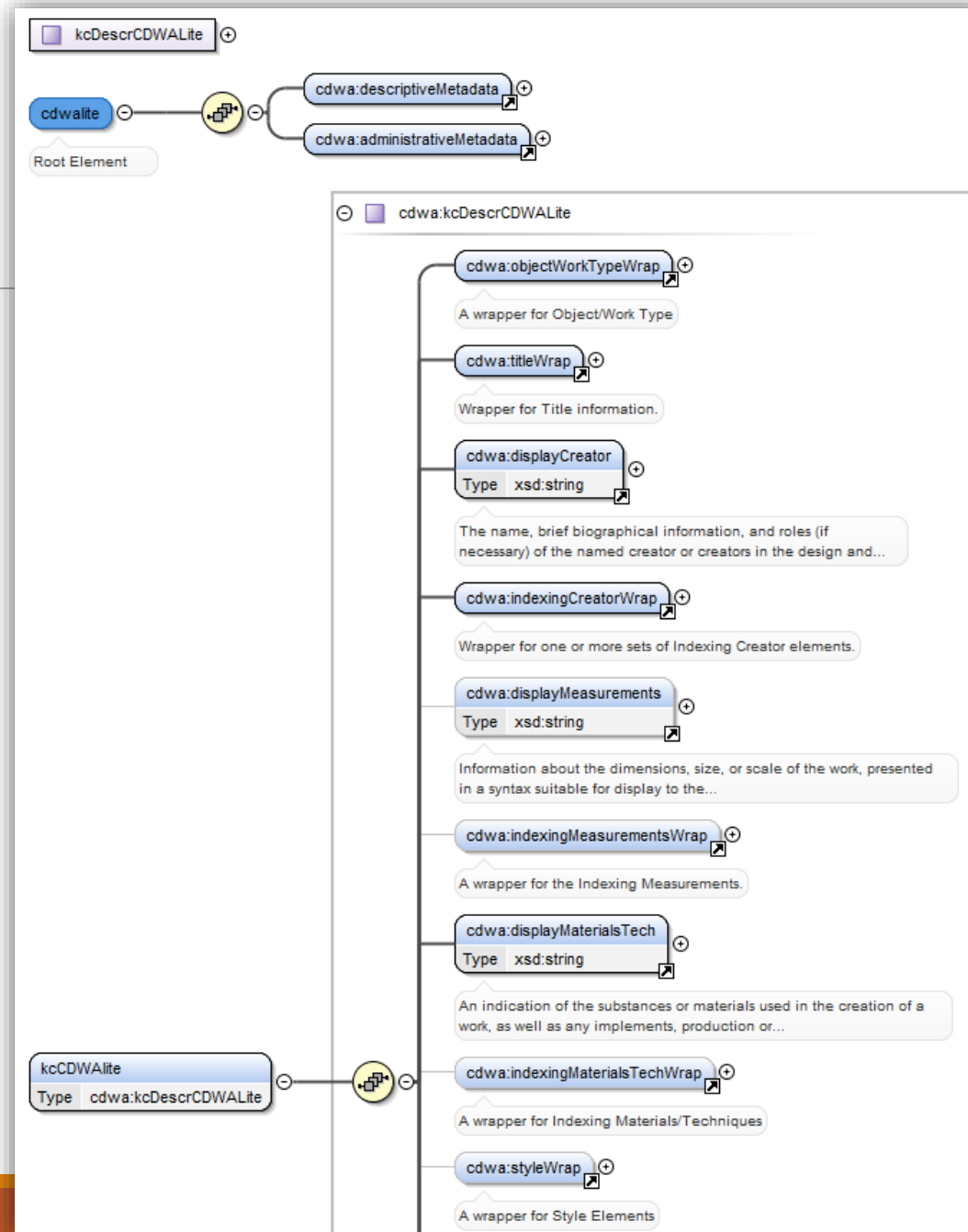
- kellycolht\_METS\_PREMIS.xsd

## ❖ MIX

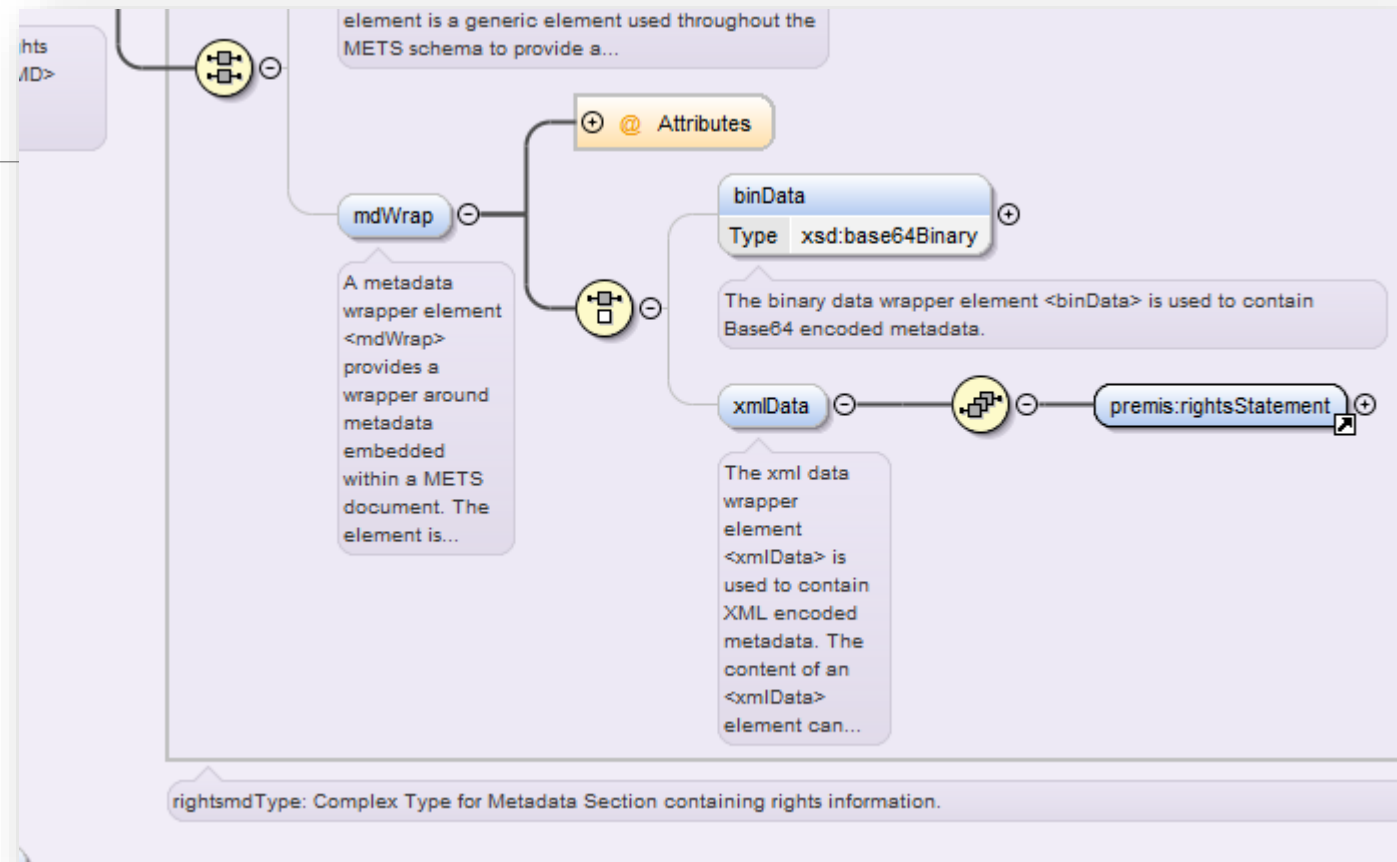
- kellycolht\_METS\_MIX.xsd

<https://www.dropbox.com/sh/eke7i7aq7ce8y76/AADg4B7ruLJax6Z25m5BuoyUa?dl=0>

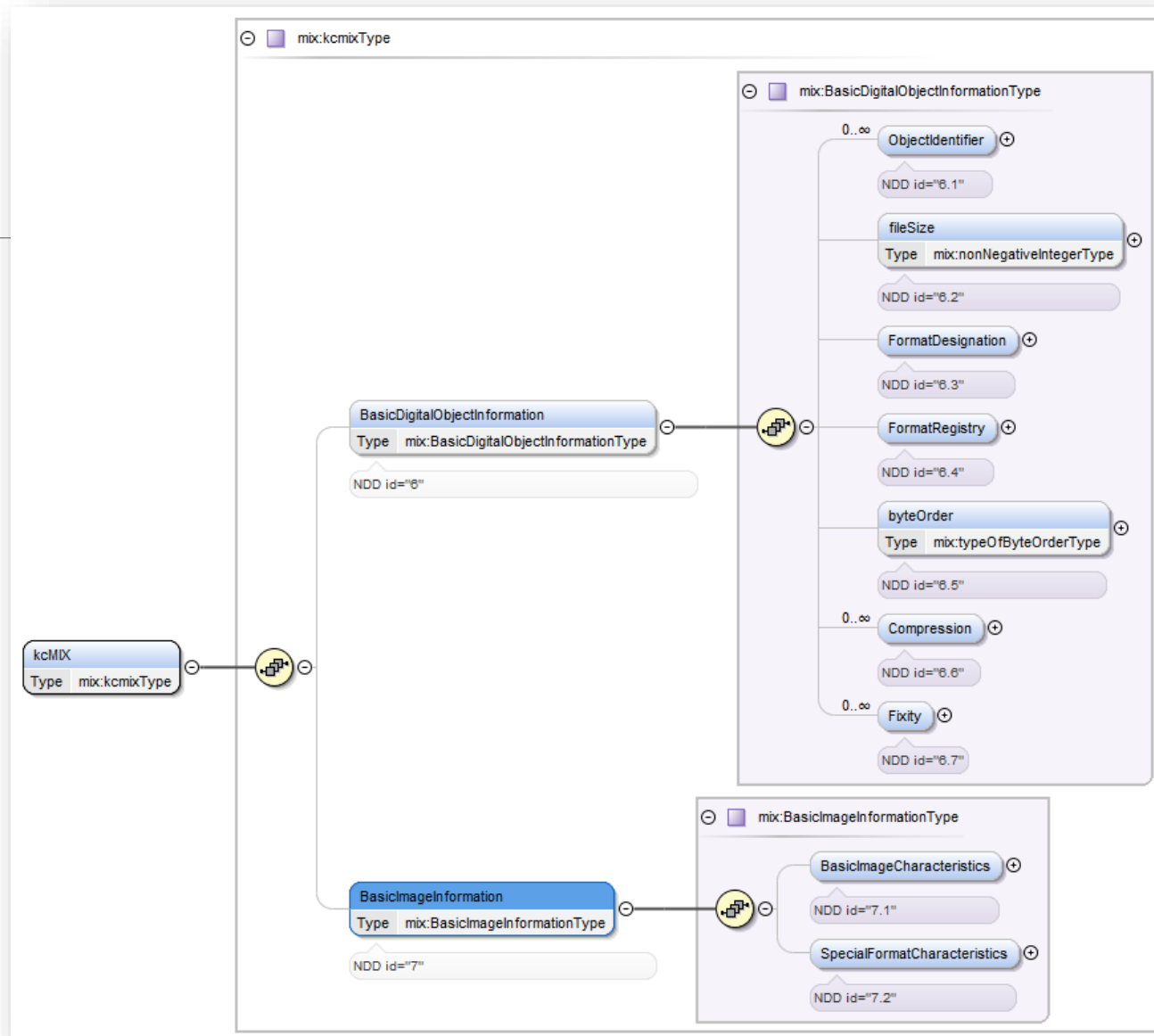
# CDWA Lite



# PREMIS

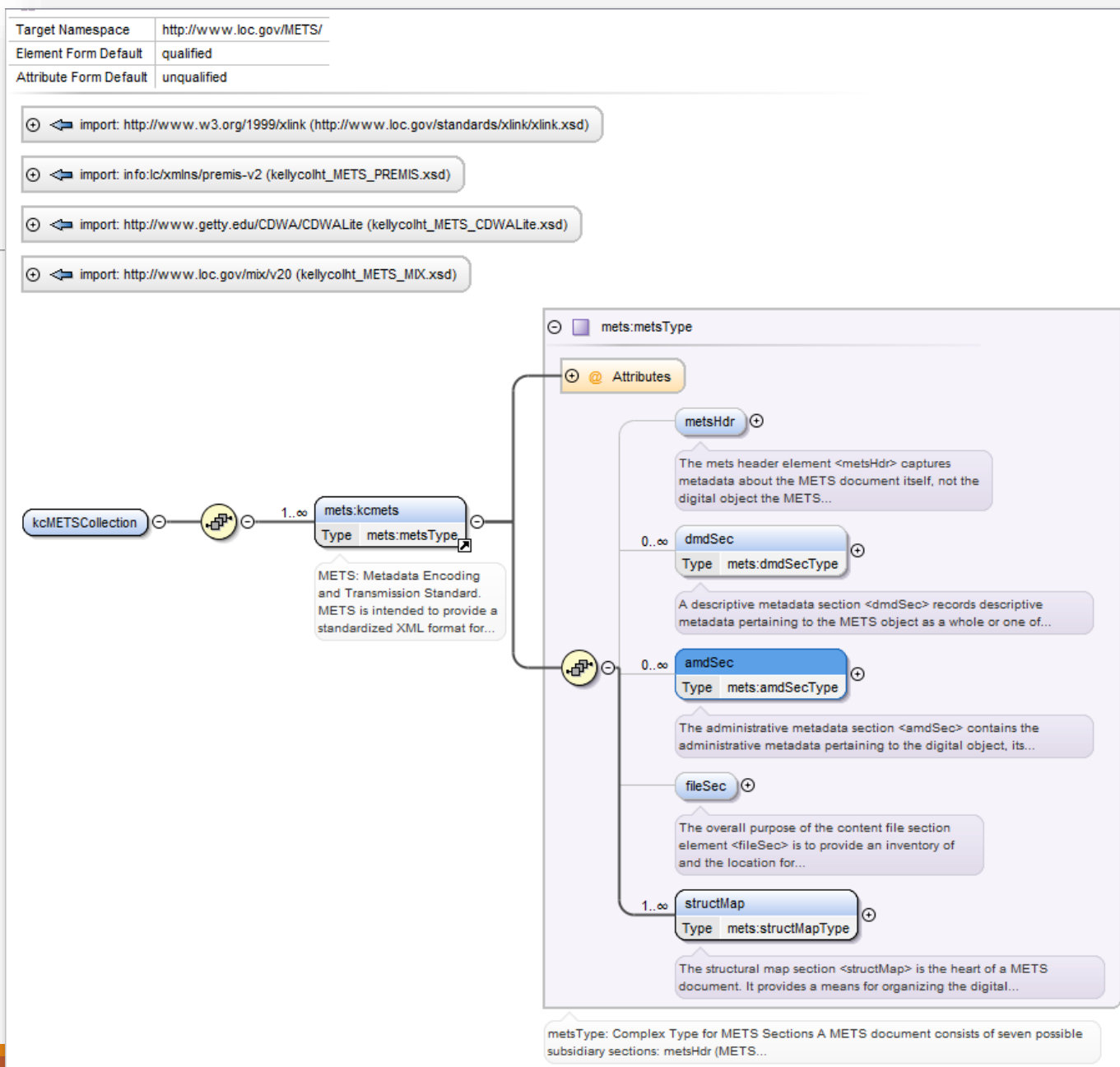


# MIX





# METS



Farm Security Administration/Office of War Information Black-and-White Negatives

Print Subscribe Share/Save

PRINTS & PHOTOGRAPHS  
ONLINE CATALOG (PPOC)

Search All

Search This Collection

GO

Advanced Help

back to record display

| Tag | i1 | i2 | code | text                               |
|-----|----|----|------|------------------------------------|
| 001 |    |    |      | fsa2000006962/PP                   |
| 003 |    |    |      | DLC                                |
| 005 |    |    |      | 20131216173858.0                   |
| 007 |    |    |      | cr                                 |
| 007 |    |    |      | kgbl                               |
| 008 |    |    |      | 991216a1937 alunnn f    kneng      |
| 037 |    |    | a    | LC-DIG-ppmsca-31901                |
|     |    |    | b    | DLC                                |
|     |    |    | c    | (digital file from original neg.)  |
| 037 |    |    | a    | LC-USF34-T01-025363-D              |
|     |    |    | b    | DLC                                |
|     |    |    | c    | (b&w film dup. neg.)               |
| 040 |    |    | a    | DLC                                |
|     |    |    | c    | DLC                                |
|     |    |    | e    | ghc                                |
| 050 | 0  | 0  | a    | LC-USF34-                          |
|     | 0  | 0  | b    | 025363-D                           |
| 084 |    |    | a    | E                                  |
|     |    |    | b    | 4628                               |
|     |    |    | 2    | z                                  |
| 037 |    |    | a    | LC-DIG-fsa-8b35946                 |
|     |    |    | b    | DLC                                |
|     |    |    | c    | (digital file from original neg.)  |
| 100 | 1  |    | a    | Rothstein, Arthur,                 |
|     | 1  |    | d    | 1915-1985,                         |
|     | 1  |    | e    | photographer.                      |
| 245 | 1  | 0  | a    | Sewing a quilt. Gees Bend, Alabama |
|     | 1  | 0  | h    | [graphic].                         |

Item 20 of 113

Back to Search Results



(digital file from original neg.)  
http://hdl.loc.gov/loc.pnp/ppmsca.31901



(digital file from original neg.) neg.  
http://hdl.loc.gov/loc.pnp/fsa.8b35946

Related

Browse neighborhoods  
Collection: Farm Security Administration/Office of War Information Black-and-White Negatives

Sewing a quilt. Gees Bend, Alabama

About This Item

Obtaining Copies

Access to Original

Title: Sewing a quilt. Gees Bend, Alabama

Other Title: Jennie Pettway and another girl with the quilter Jorena Pettway

Creator(s): Rothstein, Arthur, 1915-1985, photographer

Date Created/Published: 1937 Apr.

Medium: 1 negative : nitrate ; 3 1/4 x 4 1/4 inches or smaller.

Reproduction Number: LC-DIG-ppmsca-31901 (digital file from original neg.) LC-USF34-T01-025363-D (b&w film dup. neg.) LC-DIG-fsa-8b35946 (digital file from original neg.)

Rights Advisory: No known restrictions. For information, see U.S. Farm Security Administration/Office of War Information Black & White Photographs([http://www.loc.gov/r/print/reg/071\\_fsaib.html](http://www.loc.gov/r/print/reg/071_fsaib.html))

Call Number: LC-USF34- 025363-D [P&P]

Other Number: E 4628

Repository: Library of Congress Prints and Photographs Division Washington, DC 20540 USA  
<http://hdl.loc.gov/loc.pnp/pp.print>

Notes:

- Other title from Documenting America, 1935-1943 / edited by Carl Fleischhauer and Beverly W. Brannan. Berkeley: University of California Press in association with the Library of Congress, 1988, p. 152.
- Title and other information from caption card.
- LOT 1616 (Location of corresponding print).
- Transfer; United States. Office of War Information. Overseas Picture Division. Washington Division; 1944.
- More information about the FSA/OWI Collection is available at <http://hdl.loc.gov/loc.pnp/pp.fsaowi>
- Film copy on SIS roll 29, frame 68.

Subjects:

- United States--Alabama--Wilcox County--Gees Bend.
- Gees Bend--Alabama

- Nitrate negatives.

Collections:

- Farm Security Administration/Office of War Information Black-and-White Negatives

Part of: Farm Security Administration - Office of War Information Photograph Collection

Bookmark This Record:

<http://www.loc.gov/pictures/item/fsa2000006962/PP/>

View the MARC Record for this item.

Rights assessment is your responsibility.

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <kcMETSCollection xmlns:xlink="http://www.w3.org/1999/xlink"
3   xmlns="http://www.loc.gov/METS/"
4   xmlns:cdwa="http://www.getty.edu/CDWA/CDWALite"
5   xmlns:premis="info:lc/xmlns/premis-v2"
6   xmlns:mix="http://www.loc.gov/mix/v20"
7   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
8   xsi:schemaLocation="http://www.loc.gov/METS/ file:kellycolht_METS_AP.xsd">
9   <kcmets>
10     <metsHdr ID="kcmh01" CREATEDATE="2015-12-05T12:00:00" LASTMODDATE="2015-12-05T12:00:00">
11       <agent ROLE="CREATOR" TYPE="INDIVIDUAL" ID="crid01">
12         <name>Kelly Colht</name>
13         <note>Records created as part of an assignment for INFX 543, Autumn 2015.</note>
14       </agent>
15       <altRecordID TYPE="LCCN" ID="LC-USF34-025363-D">LC-USF34-025363-D</altRecordID>
16     </metsHdr>
17     <dmdSec ID="kcdmr01">
18       <mdRef LOCTYPE="URL" MDTYPE="MARC"
19         xlink:href="http://www.loc.gov/pictures/item/fsa2000006962/PP/marc/" />
20       <mdWrap MDTYPE="OTHER" OTHERMDTYPE="CDWA Lite" LABEL="Sewing a quilt. Gees Bend, Alabama">
21         <xmlData>
22           <cdwa:descriptiveMetadata>
23             <cdwa:objectWorkTypeWrap>
24               <cdwa:objectWorkType cdwa:termsource="AAT" cdwa:termsourceID="300128343">black-and-white negative</cdwa:objectWorkType>
25               <cdwa:objectWorkType cdwa:termsource="AAT" cdwa:termsourceID="300215302">digital image</cdwa:objectWorkType>
26             </cdwa:objectWorkTypeWrap>
27             <cdwa:titleWrap>
28               <cdwa:titleSet>
29                 <cdwa:title cdwa:pref="preferred" cdwa:lang="eng" cdwa:langtermsource="ISO 639-2b">Sewing a quilt. Gees Bend, Alabama</cdwa:title>
30                 <cdwa:sourceTitle>Title and other information from caption card.</cdwa:sourceTitle>
31               </cdwa:titleSet>
32               <cdwa:titleSet>
33                 <cdwa:title cdwa:pref="alternate" cdwa:lang="eng" cdwa:langtermsource="ISO 639-2b">Jennie Pettway and another girl with the quilter Jorena Pettway</cdwa:title>
34                 <cdwa:sourceTitle>From Documenting America, 1935-1943 / edited by Carl Fleischhauer and Beverly W. Brannan. Berkeley: University of California Press in association with the Library of Congress, 1988, p. 152.
35                 </cdwa:sourceTitle>
36               </cdwa:titleSet>
37             </cdwa:titleWrap>
38             <cdwa:displayCreator>Rothstein, Arthur, 1915-1985, photographer</cdwa:displayCreator>
39             <cdwa:indexingCreatorWrap>
40               <cdwa:indexingCreatorSet>
41                 <cdwa:nameCreatorSet>
42                   <cdwa:nameCreator cdwa:termsource="ULAN" cdwa:type="personalName" cdwa:termsourceID="500004799">Rothstein, Arthur
43                   </cdwa:nameCreator>
44                 </cdwa:nameCreatorSet>
45                 <cdwa:nationalityCreator>American</cdwa:nationalityCreator>
46                 <cdwa:vitalDatesCreator cdwa:birthDate="1915" cdwa:deathDate="1985">1915-1985</cdwa:vitalDatesCreator>
47                 <cdwa:genderCreator>male</cdwa:genderCreator>
48                 <cdwa:roleCreator cdwa:termsource="AAT" cdwa:termsourceID="300025687">photographer</cdwa:roleCreator>
49               </cdwa:indexingCreatorSet>
50             </cdwa:indexingCreatorWrap>
51             <cdwa:displayMeasurements>3 1/4 x 4 1/4 inches or smaller.</cdwa:displayMeasurements>
52             <cdwa:indexingMeasurementsWrap>
```

```
112 <amdSec ID="kcamd01">
113   <techMD ID="kctcmd01">
114     <mdWrap MDTYPE="NISOIMG">
115       <xmlData>
116         <mix:kcmix>
117           <mix:BasicDigitalObjectInformation>
118             <mix:ObjectIdentifier>
119               <mix:objectIdentifierType>Reproduction number</mix:objectIdentifierType>
120               <mix:objectIdentifierValue>LC-DIG-ppmsca-31901</mix:objectIdentifierValue>
121             </mix:ObjectIdentifier>
122             <mix:fileSize>30900</mix:fileSize>
123             <mix:FormatDesignation>
124               <mix:formatName>TIFF</mix:formatName>
125               <mix:formatVersion>6.0</mix:formatVersion>
126             </mix:FormatDesignation>
127             <mix:FormatRegistry>
128               <mix:formatRegistryName>Adobe Systems</mix:formatRegistryName>
129               <mix:formatRegistryKey>info:gdfr/fred/tiff, TIFF/6.0</mix:formatRegistryKey>
130             </mix:FormatRegistry>
131           </mix:BasicDigitalObjectInformation>
132           <mix:BasicImageInformation>
133             <mix:BasicImageCharacteristics>
134               <mix:imageWidth>3786</mix:imageWidth>
135               <mix:imageHeight>2851</mix:imageHeight>
136             </mix:BasicImageCharacteristics>
137           </mix:BasicImageInformation>
138         </mix:kcmix>
139       </xmlData>
140     </mdWrap>
141   </techMD>
142   <rightsMD ID="kcrimdw01">
143     <mdWrap MDTYPE="PREMIS">
144       <xmlData>
145         <premis:rightsStatement>
146           <premis:rightsStatementIdentifier>
147             <premis:rightsStatementIdentifierType/>
148             <premis:rightsStatementIdentifierValue>No known restrictions. For information, see U.S. Farm Security Administration/Office of War Information Black and White Photographs
149             </premis:rightsStatementIdentifierValue>
150           </premis:rightsStatementIdentifier>
151           <premis:rightsBasis/>
152         </premis:rightsStatement>
153       </xmlData>
154     </mdWrap>
155   </rightsMD>
156 </amdSec>
157 <fileSec>
158   <fileGrp USE="image/master">
159     <file ID="kcim01-1" MIMETYPE="image/tiff">
160       <FLocat LOCTYPE="URL"
161         xlink:href="http://cdn.loc.gov/master/pnp/ppmsca/31900/31901u.tif"/>
162     </file>
163   </fileGrp>
```

# Suggestions for future developers and implementers

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- ❖ Add more technical administrative data
- ❖ Re-introduce the structural link and behavior sections
- ❖ Identify where it might be appropriate to integrate data pertaining to pictured quilt(s)
- ❖ Incorporate or link more historical data relevant to the image



# Conclusion

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Image Source: <http://hdl.loc.gov/loc.pnp/hec.23204>



Image Source: <http://hdl.loc.gov/loc.pnp/highsm.15900>