

**Cutting Through the Hype About Metadata**  
**Indiana Online Users Group, Fall 2005**  
**Jenn Riley**

**Some data structure standards for descriptive metadata**

*Generic*

MAchine Readable Cataloging (MARC)  
<http://www.loc.gov/marc/>  
Metadata Object Description Schema (MODS)  
<http://www.loc.gov/mods/>  
Dublin Core (DC)  
<http://www.dublincore.org/>

*Specialized*

Visual Resources Association Core (VRA Core)  
<http://www.vraweb.org/vracore3.htm>  
Encoded Archival Description (EAD)  
<http://www.loc.gov/ead/>  
Government Information Locator Service (GILS)  
<http://www.gils.net/>  
Federal Geographic Data Committee (FGDC)/Content Standard for Digital  
Geospatial Metadata (CSDGM)  
<http://www.fgdc.gov/metadata/metadata.html>  
Darwin Core (DwC)  
<http://speciesanalyst.net/docs/dwc/>

**Some data content standards for descriptive metadata**

Anglo-American Cataloging Rules (AACR2)  
<http://www.aacr2.org/>  
Describing Archives: A Content Standard (DACS)  
<http://www.archivists.org/catalog/pubDetail.asp?objectID=1279>  
Descriptive Cataloging of Rare Materials (Books) (DCRM(B))  
<http://www.folger.edu/bsc/dcrb/DCRMBpublicreviewdraft20050531.html>  
Cataloging Cultural Objects (CCO)  
<http://www.vraweb.org/ccoweb/>

## **Some other interesting metadata standards**

### *Technical metadata*

Metadata for Images in XML (MIX)  
<http://www.loc.gov/standards/mix/>

### *Preservation metadata*

PReservation Metadata Implementation Strategies (PREMIS)  
<http://www.oclc.org/research/projects/pmwg/>

### *Rights metadata*

Open Digital Rights Language (ODRL)  
<http://odrl.net/>  
eXtensible Rights Markup Language (XrML)  
<http://www.xrml.org/>

### *Content markup*

Text Encoding Initiative (TEI)  
<http://www.tei-c.org/>  
MusicXML  
<http://www.musicxml.org/xml.html>

## Sample MODS record

```
<?xml version='1.0' encoding='UTF-8' ?>
<mods xmlns:xlink="http://www.w3.org/1999/xlink" version="3.0"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.loc.gov/mods/v3"
      xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-0.xsd">

  <titleInfo>
    <title>Sound and fury :</title>
    <subTitle>the making of the punditocracy /</subTitle>
  </titleInfo>
  <name type="personal">
    <namePart>Alterman, Eric</namePart>
    <role>
      <roleTerm type="text">creator</roleTerm>
    </role>
  </name>
  <typeOfResource>text</typeOfResource>
  <genre authority="marc">bibliography</genre>
  <originInfo>
    <place>
      <placeTerm authority="marccountry" type="code">nyu</placeTerm>
    </place>
    <place>
      <placeTerm type="text">Ithaca, N.Y</placeTerm>
    </place>
    <publisher>Cornell University Press</publisher>
    <dateIssued>c1999</dateIssued>
    <dateIssued encoding="marc">1999</dateIssued>
    <issuance>monographic</issuance>
  </originInfo>
  <language>
    <languageTerm authority="iso639-2b" type="code">eng</languageTerm>
  </language>
  <physicalDescription>
    <form authority="marcform">print</form>
    <extent>vii, 322 p. ; 23 cm.</extent>
  </physicalDescription>
  <note type="statement of responsibility">Eric Alterman.</note>
  <note>Includes bibliographical references (p. 291-312) and index.</note>
  <subject authority="lcsh">
    <topic>Journalism</topic>
    <topic>Political aspects</topic>
    <geographic>United States.</geographic>
  </subject>
  <subject authority="lcsh">
    <geographic>United States</geographic>
    <topic>Politics and government</topic>
    <temporal>20th century.</temporal>
  </subject>
  <subject authority="lcsh">
    <topic>Mass media</topic>
    <topic>Political aspects</topic>
    <geographic>United States.</geographic>
  </subject>
  <subject authority="lcsh">
    <topic>Television and politics</topic>
    <geographic>United States.</geographic>
  </subject>
  <subject authority="lcsh">
    <topic>Press and politics</topic>
```

```
<geographic>United States.</geographic>
</subject>
<subject authority="lcsh">
  <topic>Talk shows</topic>
  <geographic>United States.</geographic>
</subject>
<classification authority="lcc">PN4888.P6 A48 1999</classification>
<classification edition="21" authority="ddc">071/.3</classification>
<recordInfo>
  <recordContentSource>DLC</recordContentSource>
  <recordCreationDate encoding="marc">990730</recordCreationDate>
  <recordChangeDate encoding="iso8601">20000406144503.0</recordChangeDate>
  <recordIdentifier>11761548</recordIdentifier>
</recordInfo>
</mods>
```

## Sample METS record

```
<?xml version="1.0" standalone="no"?>
<mets:mets xmlns="http://www.loc.gov/METS/" xmlns:mets="http://www.loc.gov/METS/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xlink="http://www.w3.org/TR/xlink"
  xsi:schemaLocation="http://www.loc.gov/METS/ http://www.loc.gov/standards/mets/mets.xsd
  http://www.loc.gov/MARC21.slim http://www.loc.gov/standards/marcxml/schema/MARC21slim.xsd"
  xmlns:marc21="http://www.loc.gov/MARC21/slim">

  <mets:metsHdr CREATEDATE="2004-07-24T00:00:00">
    <mets:agent ROLE="CREATOR">
      <mets:name>Jenn Riley</mets:name>
    </mets:agent>
  </mets:metsHdr>

  <mets:dmdSec ID="dmdMARC21slim">
    <mets:mdWrap MIMETYPE="text/xml" MDTYPE="MARC" LABEL="MARC21 slim metadata">
      <mets:xmlData>
        <marc21:collection>
          <marc21:record>
            <marc21:leader>00869nam 22002295a 4500</marc21:leader>
            <marc21:controlfield tag="001">CAE4142BB</marc21:controlfield>
            <marc21:controlfield tag="008">000111s1911 cau b 000 0 eng d</marc21:controlfield>
            <marc21:datafield tag="035" ind1=" " ind2=" ">
              <marc21:subfield code="a">(InU)CAE4142BB</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="035" ind1=" " ind2=" ">
              <marc21:subfield code="a">(OCoLC)ocm43255631</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="040" ind1=" " ind2=" ">
              <marc21:subfield code="a">IUL</marc21:subfield>
              <marc21:subfield code="c">IUL</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="090" ind1=" " ind2=" ">
              <marc21:subfield code="a">PA6646</marc21:subfield>
              <marc21:subfield code="b">.F7</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="100" ind1="1" ind2=" ">
              <marc21:subfield code="a">Foster, B. O.</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="245" ind1="1" ind2="0">
              <marc21:subfield code="a">Propertiana /</marc21:subfield>
              <marc21:subfield code="c">by Benjamin Oliver Foster.</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="260" ind1=" " ind2=" ">
              <marc21:subfield code="a">[s.l. :</marc21:subfield>
              <marc21:subfield code="b">Stanford University]</marc21:subfield>
              <marc21:subfield code="c">1911.</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="300" ind1=" " ind2=" ">
              <marc21:subfield code="a">pp. [100]-110 ;</marc21:subfield>
              <marc21:subfield code="b">24 cm.</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="440" ind1=" " ind2="0">
              <marc21:subfield code="a">Leland Stanford Junior University publications.</marc21:subfield>
              <marc21:subfield code="p">University series</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="500" ind1=" " ind2=" ">
              <marc21:subfield code="a">"Reprinted from the Matzke memorial volume, Leland Stanford Junior University
publications, university series, Stanford University, October 1911."</marc21:subfield>
            </marc21:datafield>
            <marc21:datafield tag="591" ind1=" " ind2=" ">
              <marc21:subfield code="a">BB: I004 retro/o</marc21:subfield>
            </marc21:datafield>
          </marc21:record>
        </marc21:collection>
      </mets:xmlData>
    </mets:mdWrap>
  </mets:dmdSec>
</mets:mets>
```

```
</marc21:datafield>
<marc21:datafield tag="600" ind1="1" ind2="0">
<marc21:subfield code="a">Propertius, Sextus</marc21:subfield>
<marc21:subfield code="x">Criticism and interpretation.</marc21:subfield>
</marc21:datafield>
<marc21:datafield tag="998" ind1="" ind2="">
<marc21:subfield code="a">1/11/2000</marc21:subfield>
<marc21:subfield code="b">1/11/2000</marc21:subfield>
<marc21:subfield code="c">1/11/2000</marc21:subfield>
</marc21:datafield>
<marc21:datafield tag="596" ind1="" ind2="">
<marc21:subfield code="a">1</marc21:subfield>
</marc21:datafield>
<marc21:subfield code="a">B-MAIN</marc21:subfield>
<marc21:subfield code="b">_RCSTACKS</marc21:subfield>
<marc21:subfield code="c">PA6646 .F7</marc21:subfield>
<marc21:subfield code="d">NORMAL</marc21:subfield>
<marc21:subfield code="f">1</marc21:subfield>
</marc21:datafield>
</marc21:record>
</marc21:collection>
</mets:xmlData>
</mets:mdWrap>
</mets:dmdSec>
<mets:fileSec>
<mets:fileGrp>
<mets:fileGrp USE="archive">
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CREATED="2004-07-22T14:00:00" USE="archive">
<mets:FLocat LOCTYPE="PURL" xlink:href="http://purl.dlib.indiana.edu/indl/"/>
</mets:file>
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CREATED="2004-07-22T14:00:00" USE="archive">
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CREATED="2004-07-22T14:00:00" USE="archive">
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</mets:file>
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CREATED="2004-07-22T14:00:00" USE="archive">
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CREATED="2004-07-22T14:00:00" USE="archive">
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CREATED="2004-07-22T14:00:00" USE="archive">
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</mets:file>
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<mets:FLocat LOCTYPE="PURL"
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CREATED="2004-07-22T14:00:00" USE="full">
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</mets:file>
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xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-07-full.gif"/>
</mets:file>
<mets:file ID="CAE4142-08-full" GROUPID="CAE4142-08" MIMETYPE="image/gif" SEQ="8"
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    </mets:file>
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xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-09-full.gif"/>
        </mets:file>
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            <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-10-full.gif"/>
            </mets:file>
            <mets:file ID="CAE4142-11-full" GROUPID="CAE4142-11" MIMETYPE="image/gif" SEQ="11"
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                            <mets:fileGrp USE="screen">
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                                    </mets:file>
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                                            <mets:FLocat LOCTYPE="PURL"
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                                            </mets:file>
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                                                <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-04-screen.gif"/>
                                                </mets:file>
                                                <mets:file ID="CAE4142-05-screen" GROUPID="CAE4142-05" MIMETYPE="image/gif" SEQ="5"
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                                                    </mets:file>
                                                    <mets:file ID="CAE4142-06-screen" GROUPID="CAE4142-06" MIMETYPE="image/gif" SEQ="6"
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```

```
        <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-06-screen.gif"/>
    </mets:file>
    <mets:file ID="CAE4142-07-screen" GROUPID="CAE4142-07" MIMETYPE="image/gif" SEQ="7"
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        <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-07-screen.gif"/>
    </mets:file>
    <mets:file ID="CAE4142-08-screen" GROUPID="CAE4142-08" MIMETYPE="image/gif" SEQ="8"
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        <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-08-screen.gif"/>
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    <mets:file ID="CAE4142-09-screen" GROUPID="CAE4142-09" MIMETYPE="image/gif" SEQ="9"
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xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-10-screen.gif"/>
    </mets:file>
    <mets:file ID="CAE4142-11-screen" GROUPID="CAE4142-11" MIMETYPE="image/gif" SEQ="11"
        CREATED="2004-07-22T14:00:00" USE="screen">
        <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-11-screen.gif"/>
    </mets:file>
    <mets:file ID="CAE4142-12-screen" GROUPID="CAE4142-12" MIMETYPE="image/gif" SEQ="12"
        CREATED="2004-07-22T14:00:00" USE="screen">
        <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-12-screen.gif"/>
    </mets:file>
    <mets:file ID="CAE4142-13-screen" GROUPID="CAE4142-13" MIMETYPE="image/gif" SEQ="13"
        CREATED="2004-07-22T14:00:00" USE="screen">
        <mets:FLocat LOCTYPE="PURL"
xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-13-screen.gif"/>
    </mets:file>
    <mets:file ID="CAE4142-14-screen" GROUPID="CAE4142-14" MIMETYPE="image/gif" SEQ="14"
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xlink:href="http://purl.dlib.indiana.edu/indl/brittlebooks/page/CAE4142-14-screen.gif"/>
    </mets:file>
</mets:fileGrp>
</mets:fileSec>
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        <mets:div ORDER="1" TYPE="page">
            <mets:fptr FILEID="CAE4142-01-archive"/>
            <mets:fptr FILEID="CAE4142-01-full"/>
            <mets:fptr FILEID="CAE4142-01-screen"/>
        </mets:div>
        <mets:div ORDER="2" TYPE="page">
            <mets:fptr FILEID="CAE4142-02-archive"/>
            <mets:fptr FILEID="CAE4142-02-full"/>
            <mets:fptr FILEID="CAE4142-02-screen"/>
        </mets:div>
        <mets:div ORDER="3" TYPE="page">
            <mets:fptr FILEID="CAE4142-03-archive"/>
            <mets:fptr FILEID="CAE4142-03-full"/>
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```

```
<mets:ptr FILEID="CAE4142-03-screen"/>
</mets:div>
<mets:div ORDER="4" TYPE="page" ORDERLABEL="100">
    <mets:ptr FILEID="CAE4142-04-archive"/>
    <mets:ptr FILEID="CAE4142-04-full"/>
    <mets:ptr FILEID="CAE4142-04-screen"/>
</mets:div>
<mets:div ORDER="5" TYPE="page" ORDERLABEL="101">
    <mets:ptr FILEID="CAE4142-05-archive"/>
    <mets:ptr FILEID="CAE4142-05-full"/>
    <mets:ptr FILEID="CAE4142-05-screen"/>
</mets:div>
<mets:div ORDER="6" TYPE="page" ORDERLABEL="102">
    <mets:ptr FILEID="CAE4142-06-archive"/>
    <mets:ptr FILEID="CAE4142-06-full"/>
    <mets:ptr FILEID="CAE4142-06-screen"/>
</mets:div>
<mets:div ORDER="7" TYPE="page" ORDERLABEL="103">
    <mets:ptr FILEID="CAE4142-07-archive"/>
    <mets:ptr FILEID="CAE4142-07-full"/>
    <mets:ptr FILEID="CAE4142-07-screen"/>
</mets:div>
<mets:div ORDER="8" TYPE="page" ORDERLABEL="104">
    <mets:ptr FILEID="CAE4142-08-archive"/>
    <mets:ptr FILEID="CAE4142-08-full"/>
    <mets:ptr FILEID="CAE4142-08-screen"/>
</mets:div>
<mets:div ORDER="9" TYPE="page" ORDERLABEL="105">
    <mets:ptr FILEID="CAE4142-09-archive"/>
    <mets:ptr FILEID="CAE4142-09-full"/>
    <mets:ptr FILEID="CAE4142-09-screen"/>
</mets:div>
<mets:div ORDER="10" TYPE="page" ORDERLABEL="106">
    <mets:ptr FILEID="CAE4142-10-archive"/>
    <mets:ptr FILEID="CAE4142-10-full"/>
    <mets:ptr FILEID="CAE4142-10-screen"/>
</mets:div>
<mets:div ORDER="11" TYPE="page" ORDERLABEL="107">
    <mets:ptr FILEID="CAE4142-11-archive"/>
    <mets:ptr FILEID="CAE4142-11-full"/>
    <mets:ptr FILEID="CAE4142-11-screen"/>
</mets:div>
<mets:div ORDER="12" TYPE="page" ORDERLABEL="108">
    <mets:ptr FILEID="CAE4142-12-archive"/>
    <mets:ptr FILEID="CAE4142-12-full"/>
    <mets:ptr FILEID="CAE4142-12-screen"/>
</mets:div>
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    <mets:ptr FILEID="CAE4142-13-screen"/>
</mets:div>
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    <mets:ptr FILEID="CAE4142-14-screen"/>
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</mets:div>
</mets:structMap>
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<mets:div ORDER="1" TYPE="cover" LABEL="Cover">
<mets:div ORDER="1" TYPE="page">
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<mets:fptr FILEID="CAE4142-01-screen"/>
</mets:div>
</mets:div>
<mets:div ORDER="2" TYPE="blank">
<mets:div ORDER="1" TYPE="page">
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<mets:fptr FILEID="CAE4142-02-full"/>
<mets:fptr FILEID="CAE4142-02-screen"/>
</mets:div>
<mets:div ORDER="2" TYPE="page">
<mets:fptr FILEID="CAE4142-03-archive"/>
<mets:fptr FILEID="CAE4142-03-full"/>
<mets:fptr FILEID="CAE4142-03-screen"/>
</mets:div>
</mets:div>
</mets:div>
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</mets:div>
<mets:div ORDER="2" TYPE="page" ORDERLABEL="101">
<mets:fptr FILEID="CAE4142-05-archive"/>
<mets:fptr FILEID="CAE4142-05-full"/>
<mets:fptr FILEID="CAE4142-05-screen"/>
</mets:div>
<mets:div ORDER="3" TYPE="page" ORDERLABEL="102">
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<mets:fptr FILEID="CAE4142-06-screen"/>
</mets:div>
<mets:div ORDER="4" TYPE="page" ORDERLABEL="103">
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<mets:fptr FILEID="CAE4142-07-screen"/>
</mets:div>
<mets:div ORDER="5" TYPE="page" ORDERLABEL="104">
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<mets:fptr FILEID="CAE4142-08-full"/>
<mets:fptr FILEID="CAE4142-08-screen"/>
</mets:div>
<mets:div ORDER="6" TYPE="page" ORDERLABEL="105">
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<mets:fptr FILEID="CAE4142-09-full"/>
<mets:fptr FILEID="CAE4142-09-screen"/>
</mets:div>
<mets:div ORDER="7" TYPE="page" ORDERLABEL="106">
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<mets:fptr FILEID="CAE4142-10-screen"/>
</mets:div>
<mets:div ORDER="8" TYPE="page" ORDERLABEL="107">
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```

```
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</mets:div>
</mets:div>
</mets:structMap>
</mets:mets>
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## Sample VRA Core record

*The following data sets describe an etching in a museum collection and a digital image of the etching.*

Record Type = work

Type = print

Title = This is how it happened

Title.Variant = As Sucedí

Measurements.Dimensions = 24.5 x 35 cm

Material.Medium = ink

Material.Support = paper

Technique = etching

Technique = drypoint

Creator.Personal Name = Francisco Jose de Goya y Lucientes

Creator.Role = printmaker

Date.Creation = ca. 1810-1814

Location.Current Repository = Ann Arbor (MI,USA), University of Michigan

Museum of Art

Location.Creation Site = Madrid (ESP)

ID Number. Current Accession = 1977/2.15

Style/Period = Romanticism

Culture = Spanish

Subject = war

Relation.Part of = Part of Disasters of war

Description = This is how it happened is No. 47 (33) from the series "The Disasters of War", 4th edition, plates for the series ca. 1810-14, 1820, 4th edition was published 1906.

Rights = Weber family trust

---

Record Type = image

Type = digital

Title = general view

Measurements.Dimensions = 72 dpi

Measurements.Format = jpeg

Technique = scanning

Creator = Fred Technician

Date.Creation = 1999

Location.Current Repository = Ann Arbor (MI,USA), University of Michigan

Museum of Art

ID Number.Current Repository = PCD5010-1611-1037-27

ID Number.Current Repository = 1977\_2.15.jpeg

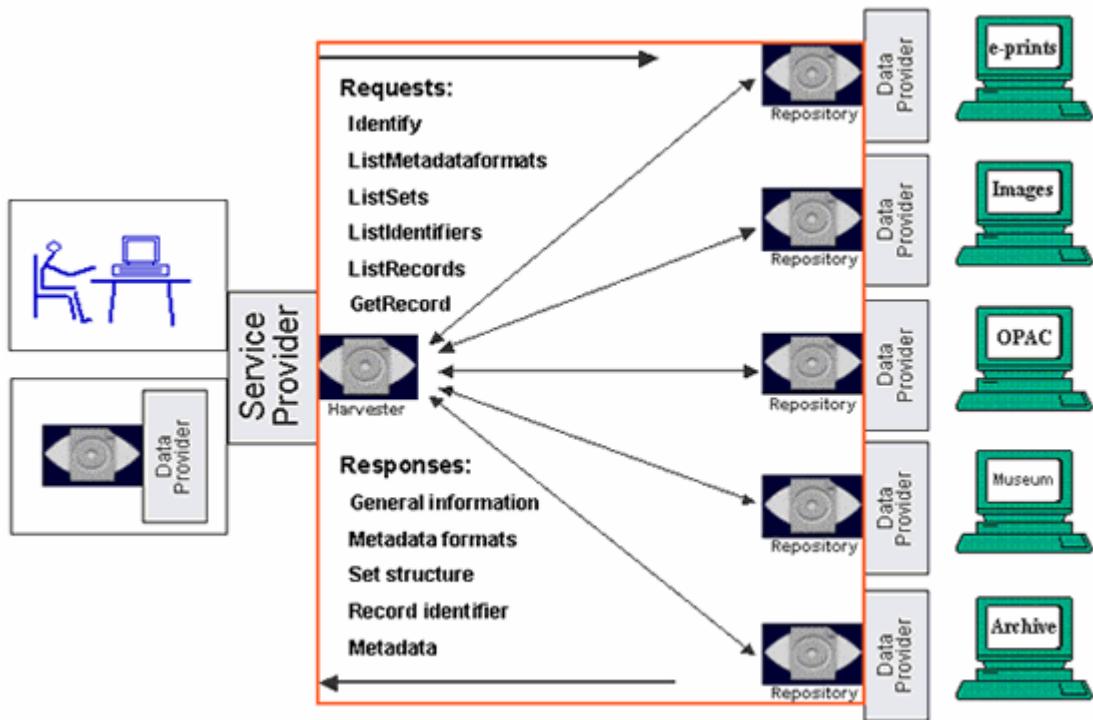
Description = For more information, see

[http://www.si.umich.edu/Art\\_History/demoarea/details/1977\\_2.15.html](http://www.si.umich.edu/Art_History/demoarea/details/1977_2.15.html)

Source = University of Michigan Museum of Art

Rights = University of Michigan Museum of Art

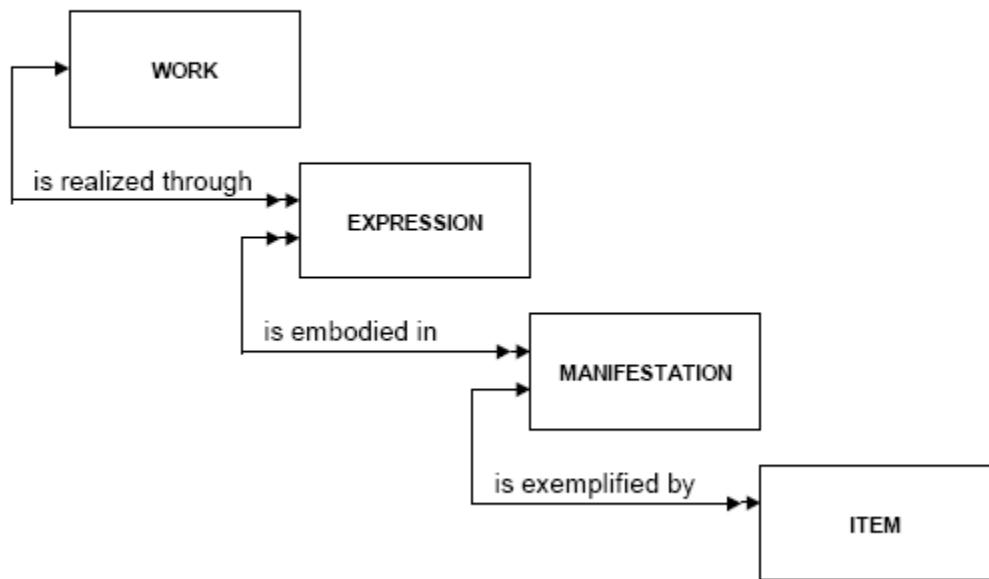
## Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH)



\*Graphic from the OAI Forum Tutorial  
<<http://www.oaforum.org/tutorial/english/page3.htm>>

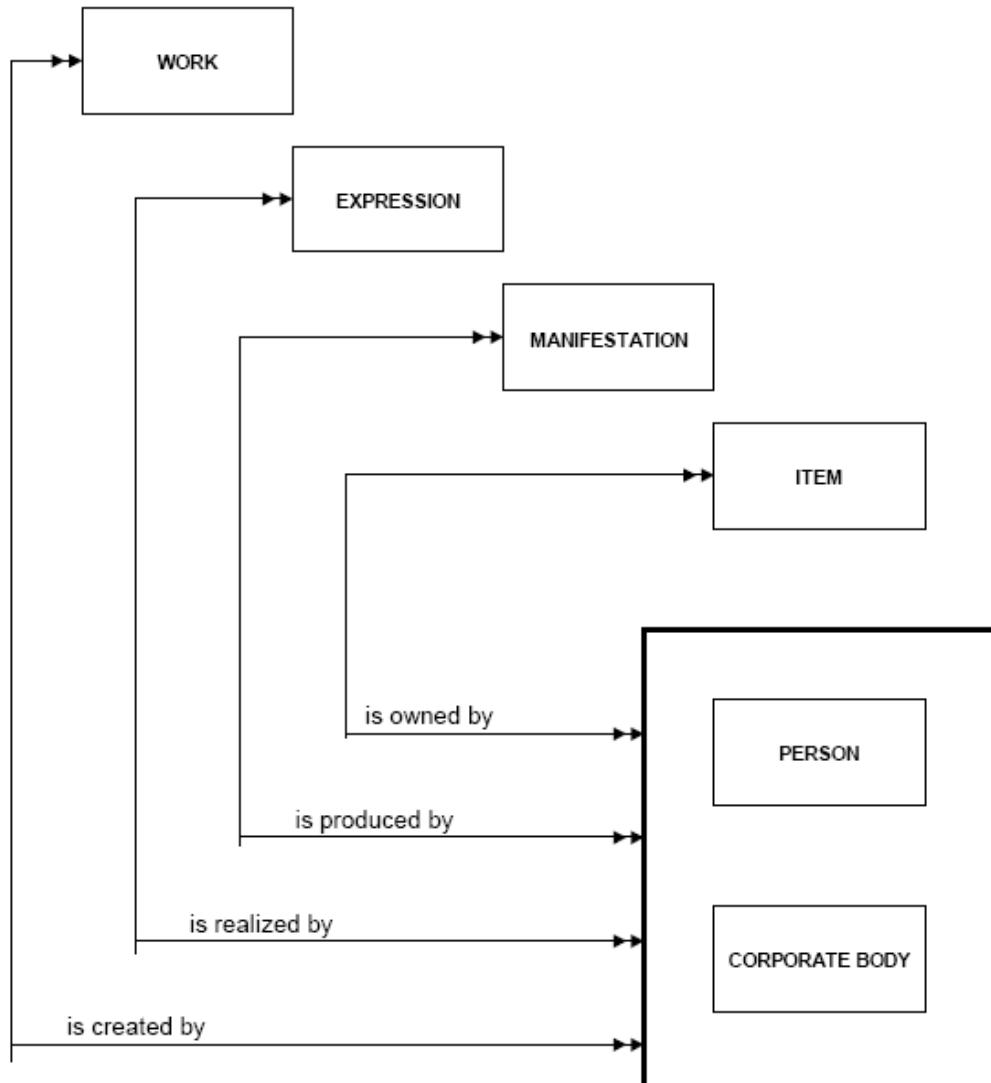
## FRBR Group 1 Entities: Products of intellectual & artistic endeavor

Figure 3.1: Group 1 Entities and Primary Relationships



## FRBR Group 2 Entities: Those responsible for intellectual & artistic content

Figure 3.2: Group 2 Entities and “Responsibility” Relationships



## FRBR Group 3 Entities: Subjects of works

Figure 3.3: Group 3 Entities and “Subject” Relationships

