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If not DC, then MODS? A look at the Metadata Object Description Schema

Cheryl D. Walters
Utah State University

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If not DC, then MODS?
A look at the Metadata Object Description Schema

Cheryl Walters
Kayla Willey
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St. George, Utah
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Useful Articles

- McCallum, Sally. An Introduction to the Metadata Object Description Schema (MODS). *Library Hi-Tech*, v. 22, no. 1 (2004): 82-88

- Guenther, Rebecca S. Using the Metadata Object Description Schema (MODS) for resource description: guidelines and applications. *Library Hi-Tech*, v. 22, no. 1 (2004): 89-98

- Guenther, Rebecca S. MODS: The Metadata Object Description Schema. *portal: Libraries and the Academy*, v. 3, no. 1 (2003): 137-150

Useful resources & websites

❖ MODS Official website:
  http://www.loc.gov/standards/mods/

❖ METS Official website:
  http://www.loc.gov/standards/mets/

❖ DLF MODS Implementation Guidelines for Cultural Heritage Materials:
  http://www.diglib.org/aquifer/DLF_MODS_ImpGuidelines_ver4.pdf

❖ Best Practices for Shareable Metadata
  http://oai-best.comm.nsdl.org/cgi-bin/wiki.pl?PublicTOC
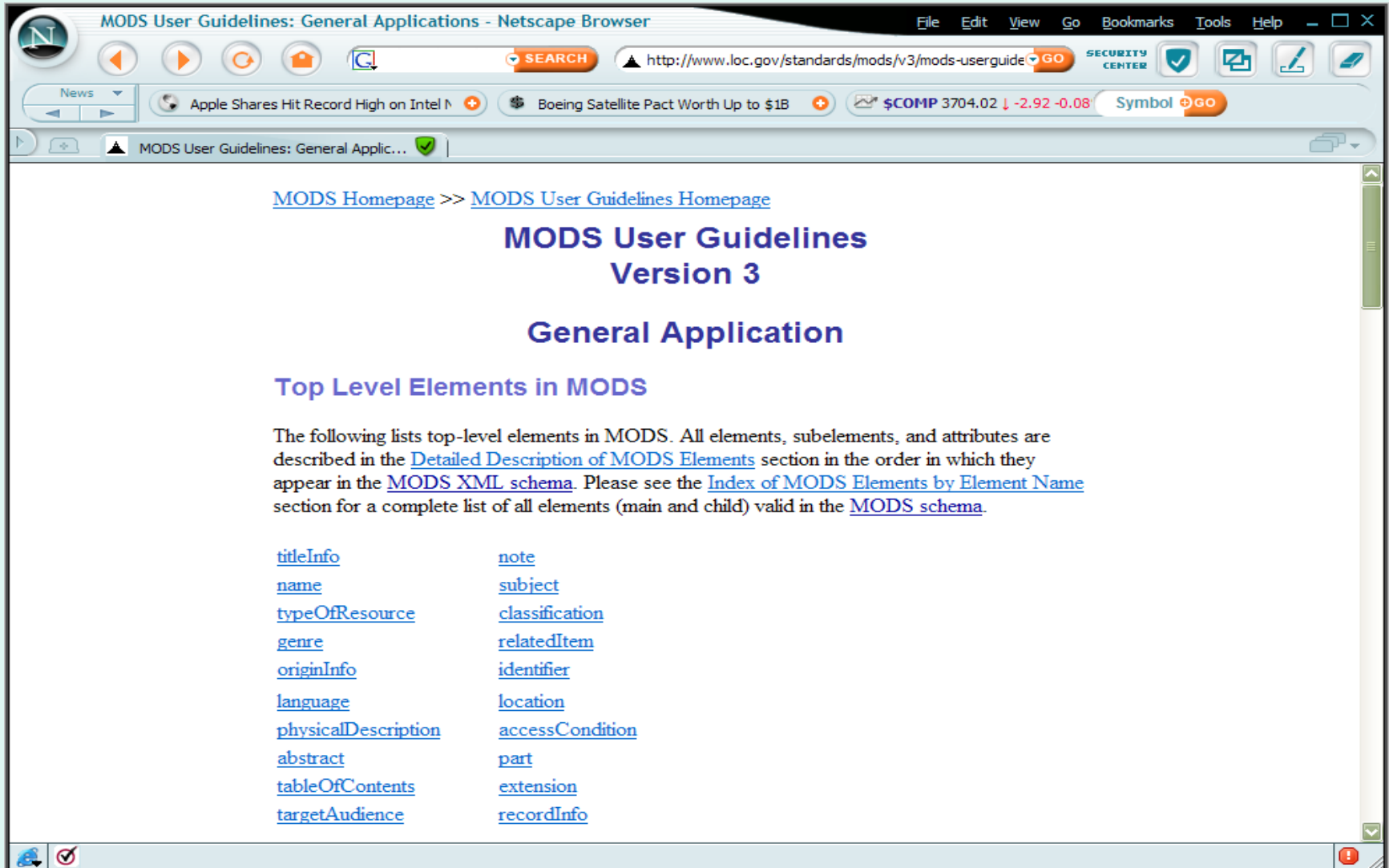
What MODS is...

- MODS = <u>M</u>etadata <u>O</u>bject <u>D</u>escription <u>S</u>chema

- It is a MARC21 compatible XML schema for *descriptive* metadata only

- Created by the same folks that brought us MARC (Library of Congress)

  - Version 1: open to public review in 2002
  - Version 3.1 is most current version:
  http://www.loc.gov/standards/mods/v3/mods-3-1.xsd

... What MODS is

- MODS descriptive records can be contained inside METS record

- MODS is a MARC21 derivative, simpler than MARC21 but compatible

- Converting a MARC21 record to MODS and back again to MARC21 may lose specificity of tagging or data

- MODS is richer than Dublin Core, more compatible with library data than ONIX, more end user friendly than MARCXML, and simpler than MARC.

MODS User Guidelines: top level elements

http://www.loc.gov/standards/mods/v3/mods-userguide.html

MODS User Guidelines
explain attributes for each element

MODS User Guidelines: Elements - Netscape Browser

File   Edit   View   Go   Bookmarks   Tools   Help

http://www.loc.gov/standards/mods/v3/mods-userguide

News
Apple Shares Hit Record High on Intel N
Boeing Satellite Pact Worth Up to $1B
TWX 17.57 ↑0.07 0.40%
Symbol GO

MODS User Guidelines: Elements

\<titleInfo\>

"titleInfo" is a wrapper element that contains all subelements related to title information. Data content is contained in subelements. \<titleInfo\> is repeated for each **type** attribute value. If multiple titles are recorded, repeat \<titleInfo\>\<title\> for each. The language of the title may be indicated if desired using the xml:lang (RFC3066) or lang (3-character ISO 639-2 code) attributes.

Attributes

- **type** - This attribute is applied when it is necessary to identify what type of title is recorded. For the main title (MARC 21 field 245), no type is indicated. The following values may be used with the type attribute:
  - *abbreviated* (equivalent to MARC 21 field 210)
  - *translated* (equivalent to MARC 21 field 242, 246)
  - *alternative* (equivalent to MARC 21 fields 246, 740)
  - *uniform* (equivalent to MARC 21 fields 130, 240, 730)
- **authority** - The name of the authoritative list for a controlled value is recorded here. An authority attribute may be used to indicate that a title is controlled by a record in an authority file (e.g. authority="naf"). A list of authority files is maintained at: www.loc.gov/marc/sourcecode/authorityfile/authorityfilesource.html.
- **displayLabel** - This attribute is intended to be used when additional text associated with the title is needed for display. It is equivalent to MARC 21 field 246 subfield $i.
- **xlink** - *See the Attributes used throughout the schema for description.*
- **ID** - *See the Attributes used throughout the schema for description.*
- **lang** - *See the Attributes used throughout the schema for description.*
- **xml:lang** - *See the Attributes used throughout the schema for description.*
- **script** - *See the Attributes used throughout the schema for description.*
- **transliteration** - *See the Attributes used throughout the schema for description.*

Subelements

Example of element and attribute

- <genre **authority** = "aat"> portraits </genre>

Element

Attribute

Controlled
vocabulary
stipulated as
the "authority"

Element

Value (i.e. Controlled term)

… and show & explain all sub elements

- **xml:lang** - *See the Attributes used throughout the schema for description.*
- **script** - *See the Attributes used throughout the schema for description.*
- **transliteration** - *See the Attributes used throughout the schema for description.*

Subelements

The following subelements are defined for "titleInfo." They are enumerated below.

<title>
<subTitle>
<partNumber>
<partName>
<nonSort>

<titleInfo>

<title>

"title" *without the <titleInfo> type attribute* is roughly equivalent to MARC 21 field 245, except that it does not include the entire title area dictated by AACR2. The statement of responsibility in MARC 21 field 245 is included in the <note> element with type="statement of responsibility," not in <title>.

Elements considered part of the title that are separately subfielded in MARC 21 are included here unless they have a separate subelement. For instance, the General Material Designator (MARC 21 field 245 subfield $h) and form (MARC 21 field 245 subfield $k) may be included as part of the title, but a part name or number is included in the subelements below.

When there is a subtitle, additional elements should follow the subelement for which it is appropriate (e.g., a part name or number may follow the title or the subtitle depending upon the situation).
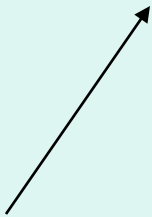
Example of element and sub element

Element

↓

<originInfo

<place> <placeTerm type="text">Ithaca, N.Y. </placeTerm>

Sub elements

Attribute

Sub element

Text stipulated as the "type"

Value (i.e. Place name)

... sub elements clarify, explain source of terms/codes, or provide instructions for data manipulation

<titleInfo>
    <subTitle>

"subTitle" includes a subtitle when it is desired to include it as a separate element. Alternatively, it may be included as part of a title. It is equivalent to MARC 21 fields 242, 245, 246 subfield $b.

<titleInfo>
    <partNumber>

"partNumber" is used for a part or section number of a title. This is equivalent to MARC 21 fields 130, 240, 242, 243, 245, 246, 247, 730, 740 subfield $n.

<titleInfo>
    <partName>

"partName" is used for a part or section name of a title. This is equivalent to MARC 21 fields 130, 240, 242, 243, 245, 246, 247, 730, 740 subfield $p.
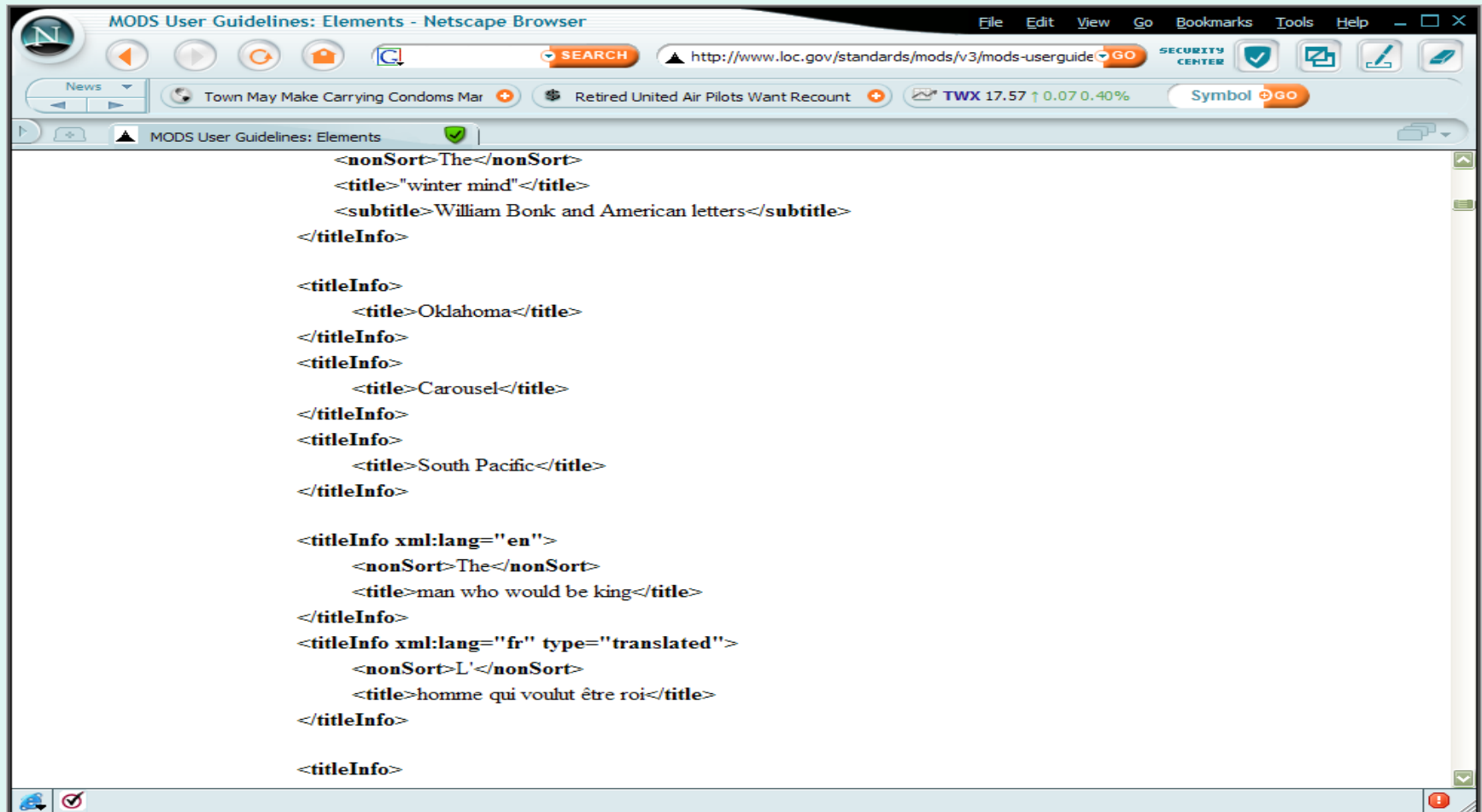
<titleInfo>
    <nonSort>

"nonSort" begin and end tags surround the nonfiling text which should not be regarded in sorting. It is equivalent to the new technique in MARC 21 that uses control characters to surround data disregarded for sorting. It is used for the same purpose as the nonfiling indicator value that indicates the number of characters disregarded for sorting. Punctuation may or may not be included within the non-sort value depending upon whether it is part of the sorting or non-sorting data.

Examples

Guidelines give lots of examples...

MODS features

- Uses natural language tags instead of numeric tags and avoids abbreviations for easier understanding

  MODS:

    <title> Sound and fury : </title>

    <subTitle> the making of the punditocracy /</subTitle>
    </titleInfo>

  MARC:

    245 10 Sound and fury : |b the making of the punditocracy /

- Consolidates data from different MARC tags
  - **Publishing** info in MARC tags 008, 044, 260 subfields a,b & c, 033, 250, 310, 321 pulled together under same MODS tag **<originInfo>**

MODS features

- **Physical description** info from MARC tags 008, 256, 300 and 856 are pulled together under the MODS **<physicalDescription>** tag

- **Genre** info from MARC tags 007, 008, and 655 are combined under the one MODs tag, **<genre>**

- MODS unique elements with no MARC equivalent:
  - <digitalOriginal> with values "born-digital" and "formatted-digital"
  - <reformattingQuality> with values "access" and "preservation", and "replacement"

- Xlink attribute allows inclusion of a link to information

- ID attribute allows inclusion of an internal link to information

MODS Elements

- All MODS elements and attributes are optional

- All MODS elements and sub elements are repeatable

- Some top level elements may also serve as a sub element under another element
  - Example: **titleInfo** can be a top level element (to show the main title of a resource) but can also function as a sub element under another top level element such as **relatedItem (**to show the title of another item related to a resource).

Example of a MODS element with sub element

- Using MODs to show series data:

  ```
  <relatedItem type="series">
    <titleInfo>
            <title> Music for voice and instrument
            <title>
    </titleInfo>
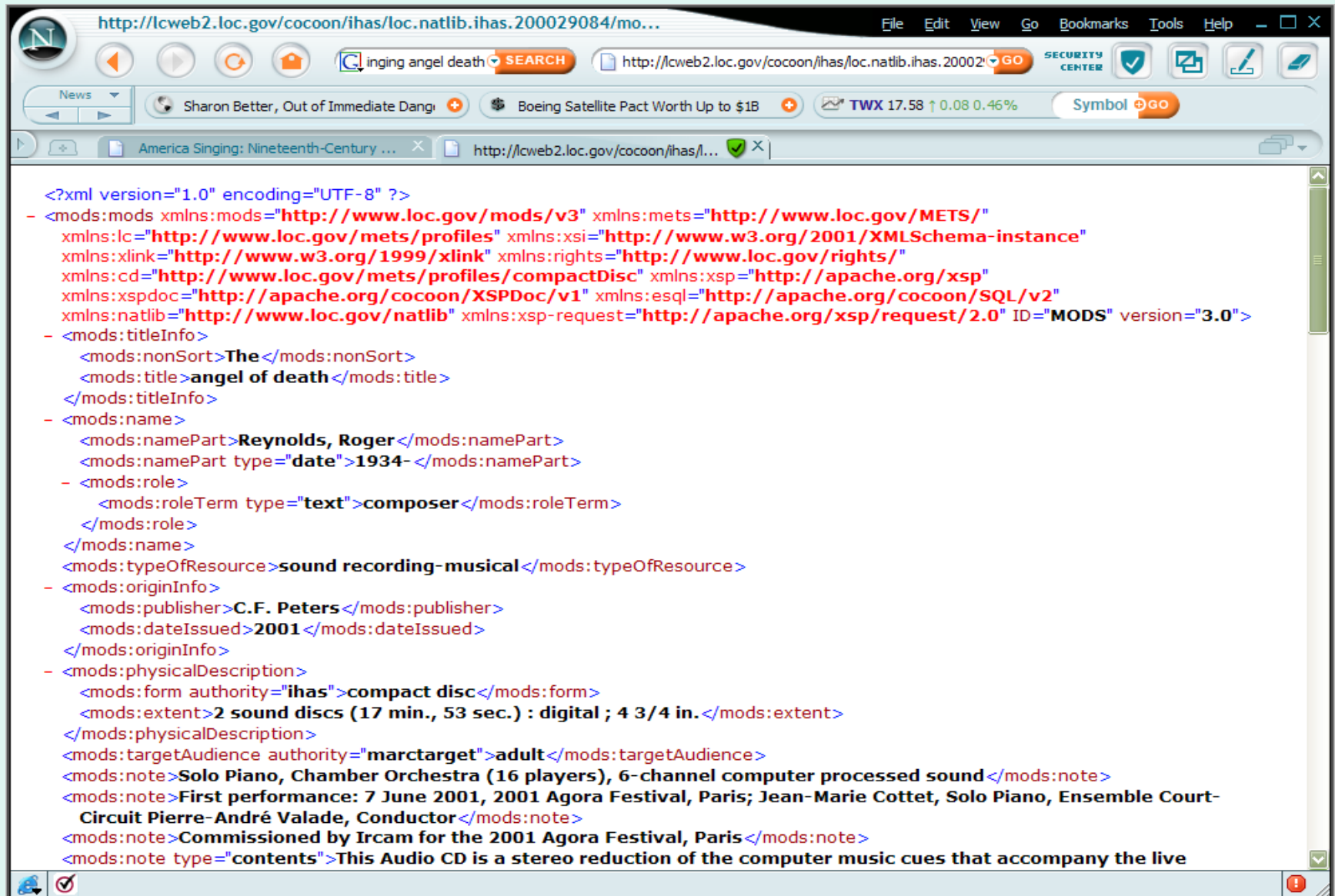  ```

  - the term **type** functions as an <u>attribute</u> with the <u>value</u> **series**
  - The title is given inside <titleInfo> and </titleInfo> tags

# Metadata record
# with MODS and METS format options



**Compact Disc Brief Display: The angel of death / Roger Reynolds [...**

File   Edit   View   Go   Bookmarks   Tools   Help

http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.20002

News ▼

Bush Open to Hearings on Domestic Sp    Stern Moves to Sell $200M in Sirius Stoc    $INX 1293.75 ↑ 4.06 0.31%    Symbol GO

Compact Disc Brief Display: The angel...

The Library of Congress                                    Performing Arts Reading Room

*I Hear America Singing*        search | browse | about | copyright | help

home ▶ disc contents ▶ compact disc brief display

## The angel of death / Roger Reynolds [compact disc]

P67979
The Angel of Death (1998-2001) 34'
Composed by Roger Reynolds

Solo Piano, Chamber Orchestra,
6-channel computer processed sound
Solo Piano, Fl (Picc), Picc (Fl), Cl, B-cl, Hn, 2 Trp, Tbn, 3 Perc, 2 Vln, Vla, Vc, Db
First performance: 7 June 2001
2001 Agora Festival, Paris
Ensemble Court-Circuit, Jean-Marie Cottet, Piano
Pierre-André Valade, Conductor
Commissioned by Ircam for the 2001 Agora Festival, Paris

Technical Notes: This Audio CD is a stereo reduction of the  computer music
cues that accompany the  live performance of this work.
(This is intended for study purposes and not for the performance of the work).

This disc contains
the ODD NUMBERED CUES ONLY.
This is an Audio CD, 44.1K, 16 bit Stereo.

**Title**
   The angel of death [compact disc]
**Composer**
   Reynolds, Roger, 1934-
**Publisher**
   C.F. Peters
**Date Issued**
   2001
**Physical Description**
   2 sound discs (17 min., 53 sec.) : digital ; 4 3/4 in.
**Contents Note**
   This Audio CD is a stereo reduction of the computer
   music cues that accompany the live performance of
   this work. (This is intended for study purposes and
   not for the performance of the work).

**Compact Disc Views:**
▶▶ **Brief Display**
▶  Contents/Audio List
▶  Full Description
**Additional Materials:**
▶  CD Booklet

Display XML: MODS Bibliographic Data    |    METS Object Description

home ▶ disc contents ▶ compact disc brief display

The Library of Congress                                    Performing Arts Reading Room
November 9, 2005                                                       Ask a Librarian

# MODS record

inging angel death SEARCH    http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.20002 GO    SECURITY CENTER    Symbol GO

News ▼    Sharon Better, Out of Immediate Dang    Boeing Satellite Pact Worth Up to $1B    TWX 17.58 ↑ 0.08 0.46%

America Singing: Nineteenth-Century ...    http://lcweb2.loc.gov/cocoon/ihas/l...
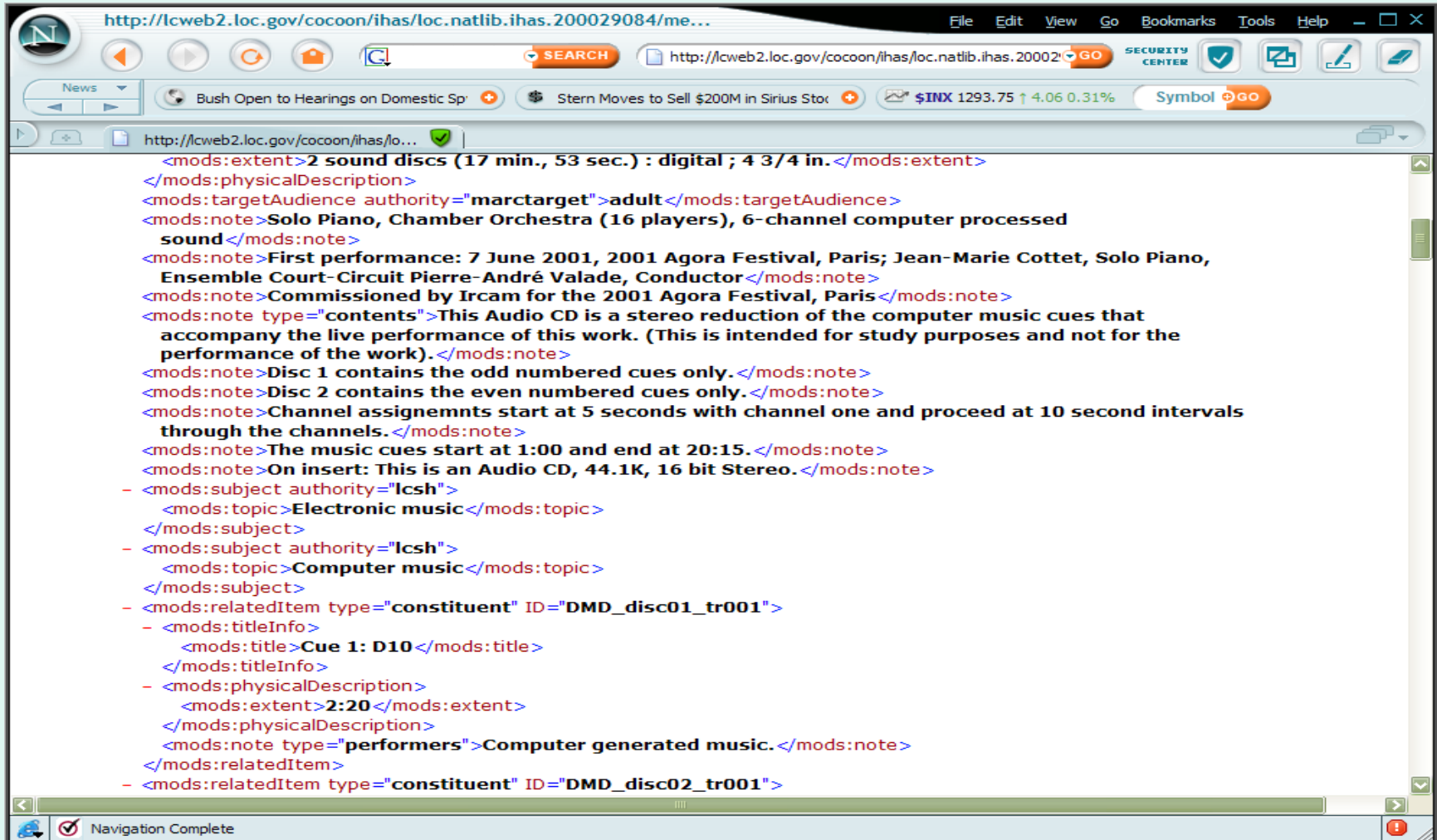
```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <mods:mods xmlns:mods="http://www.loc.gov/mods/v3" xmlns:mets="http://www.loc.gov/METS/"
   xmlns:lc="http://www.loc.gov/mets/profiles" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:rights="http://www.loc.gov/rights/"
   xmlns:cd="http://www.loc.gov/mets/profiles/compactDisc" xmlns:xsp="http://apache.org/xsp"
   xmlns:xspdoc="http://apache.org/cocoon/XSPDoc/v1" xmlns:esql="http://apache.org/cocoon/SQL/v2"
   xmlns:natlib="http://www.loc.gov/natlib" xmlns:xsp-request="http://apache.org/xsp/request/2.0" ID="MODS" version="3.0">
  - <mods:titleInfo>
      <mods:nonSort>The</mods:nonSort>
      <mods:title>angel of death</mods:title>
    </mods:titleInfo>
  - <mods:name>
      <mods:namePart>Reynolds, Roger</mods:namePart>
      <mods:namePart type="date">1934-</mods:namePart>
    - <mods:role>
        <mods:roleTerm type="text">composer</mods:roleTerm>
      </mods:role>
    </mods:name>
    <mods:typeOfResource>sound recording-musical</mods:typeOfResource>
  - <mods:originInfo>
      <mods:publisher>C.F. Peters</mods:publisher>
      <mods:dateIssued>2001</mods:dateIssued>
    </mods:originInfo>
  - <mods:physicalDescription>
      <mods:form authority="ihas">compact disc</mods:form>
      <mods:extent>2 sound discs (17 min., 53 sec.) : digital ; 4 3/4 in.</mods:extent>
    </mods:physicalDescription>
    <mods:targetAudience authority="marctarget">adult</mods:targetAudience>
    <mods:note>Solo Piano, Chamber Orchestra (16 players), 6-channel computer processed sound</mods:note>
    <mods:note>First performance: 7 June 2001, 2001 Agora Festival, Paris; Jean-Marie Cottet, Solo Piano, Ensemble Court-
      Circuit Pierre-André Valade, Conductor</mods:note>
    <mods:note>Commissioned by Ircam for the 2001 Agora Festival, Paris</mods:note>
    <mods:note type="contents">This Audio CD is a stereo reduction of the computer music cues that accompany the live
```

MODS record inside METS record

MODS tags take up about half of this entire METS record

File   Edit   View   Go   Bookmarks   Tools   Help

inging angel death   SEARCH   http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.20002   GO   SECURITY CENTER

News
Blair Says West Likely to Sanction Iran   DuPont Lowers 4Q Profit Outlook on St $COMP 3696.54 ↓ -10.4 -0.28   Symbol   GO

America Singing: Nineteenth-Century ...   X   http://lcweb2.loc.gov/cocoon/ihas/l...   X

```
<?xml version="1.0" encoding="UTF-8" ?>
- <mets:mets OBJID="loc.natlib.ihas.200029084" xsi:schemaLocation="http://www.loc.gov/METS/
    http://www.loc.gov/standards/mets/mets.xsd http://www.loc.gov/mods/v3
    http://www.loc.gov/standards/mods/v3/mods-3-0.xsd" PROFILE="lc:newCompactDisc"
    xmlns:mets="http://www.loc.gov/METS/" xmlns:lc="http://www.loc.gov/mets/profiles"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xlink="http://www.w3.org/1999/xlink"
    xmlns:rights="http://www.loc.gov/rights/" xmlns:mods="http://www.loc.gov/mods/v3"
    xmlns:cd="http://www.loc.gov/mets/profiles/compactDisc">
 - <mets:dmdSec ID="DMD">
   - <mets:mdWrap ID="MODS1" MDTYPE="MODS">
     - <mets:xmlData>
       - <mods:mods ID="MODS" version="3.0" xmlns:xsp="http://apache.org/xsp"
           xmlns:xspdoc="http://apache.org/cocoon/XSPDoc/v1" xmlns:esql="http://apache.org/cocoon/SQL/v2"
           xmlns:natlib="http://www.loc.gov/natlib" xmlns:xsp-request="http://apache.org/xsp/request/2.0">
         - <mods:titleInfo>
             <mods:nonSort>The</mods:nonSort>
             <mods:title>angel of death</mods:title>
           </mods:titleInfo>
         - <mods:name>
             <mods:namePart>Reynolds, Roger</mods:namePart>
             <mods:namePart type="date">1934-</mods:namePart>
           - <mods:role>
               <mods:roleTerm type="text">composer</mods:roleTerm>
             </mods:role>
           </mods:name>
           <mods:typeOfResource>sound recording-musical</mods:typeOfResource>
         - <mods:originInfo>
             <mods:publisher>C.F. Peters</mods:publisher>
             <mods:dateIssued>2001</mods:dateIssued>
           </mods:originInfo>
         - <mods:physicalDescription>
             <mods:form authority="ihas">compact disc</mods:form>
```

(2) Continuation of MODS inside METS…

http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.20002

News
Bush Open to Hearings on Domestic Sp   Stern Moves to Sell $200M in Sirius Stoc $INX 1293.75 ↑ 4.06 0.31%   Symbol GO

http://lcweb2.loc.gov/cocoon/ihas/lo...

```
        <mods:extent>2 sound discs (17 min., 53 sec.) : digital ; 4 3/4 in.</mods:extent>
    </mods:physicalDescription>
    <mods:targetAudience authority="marctarget">adult</mods:targetAudience>
    <mods:note>Solo Piano, Chamber Orchestra (16 players), 6-channel computer processed
        sound</mods:note>
    <mods:note>First performance: 7 June 2001, 2001 Agora Festival, Paris; Jean-Marie Cottet, Solo Piano,
        Ensemble Court-Circuit Pierre-André Valade, Conductor</mods:note>
    <mods:note>Commissioned by Ircam for the 2001 Agora Festival, Paris</mods:note>
    <mods:note type="contents">This Audio CD is a stereo reduction of the computer music cues that
        accompany the live performance of this work. (This is intended for study purposes and not for the
        performance of the work).</mods:note>
    <mods:note>Disc 1 contains the odd numbered cues only.</mods:note>
    <mods:note>Disc 2 contains the even numbered cues only.</mods:note>
    <mods:note>Channel assignemnts start at 5 seconds with channel one and proceed at 10 second intervals
        through the channels.</mods:note>
    <mods:note>The music cues start at 1:00 and end at 20:15.</mods:note>
    <mods:note>On insert: This is an Audio CD, 44.1K, 16 bit Stereo.</mods:note>
–   <mods:subject authority="lcsh">
        <mods:topic>Electronic music</mods:topic>
    </mods:subject>
–   <mods:subject authority="lcsh">
        <mods:topic>Computer music</mods:topic>
    </mods:subject>
–   <mods:relatedItem type="constituent" ID="DMD_disc01_tr001">
    –   <mods:titleInfo>
            <mods:title>Cue 1: D10</mods:title>
        </mods:titleInfo>
    –   <mods:physicalDescription>
            <mods:extent>2:20</mods:extent>
        </mods:physicalDescription>
        <mods:note type="performers">Computer generated music.</mods:note>
    </mods:relatedItem>
–   <mods:relatedItem type="constituent" ID="DMD_disc02_tr001">
```

Navigation Complete

(3) Continuation of MODS inside METS…

(4) Continuation of MODS inside METS…

(5) Continuation of MODS inside METS…

```xml
        - <mods:titleInfo>
            <mods:title>Cue 9: D10</mods:title>
          </mods:titleInfo>
        - <mods:physicalDescription>
            <mods:extent>1:51</mods:extent>
          </mods:physicalDescription>
          <mods:note type="performers">Computer generated music.</mods:note>
        </mods:relatedItem>
      - <mods:relatedItem type="constituent" ID="DMD_disc02_tr005">
        - <mods:titleInfo>
            <mods:title>Cue 10: D10</mods:title>
          </mods:titleInfo>
        - <mods:physicalDescription>
            <mods:extent>1:51</mods:extent>
          </mods:physicalDescription>
          <mods:note type="performers">Computer generated music.</mods:note>
        </mods:relatedItem>
        <mods:identifier type="music publisher">C.F. Peters P67979</mods:identifier>
        <mods:identifier displayLabel="IHASDigitalID" type="local">200029084</mods:identifier>
        <mods:identifier displayLabel="IHASMODSID" type="local">23595</mods:identifier>
      - <mods:location>
          <mods:physicalLocation authority="marcorg">DLC</mods:physicalLocation>
        </mods:location>
      - <mods:recordInfo>
          <mods:recordContentSource>IHAS</mods:recordContentSource>
          <mods:recordChangeDate encoding="marc">050718</mods:recordChangeDate>
          <mods:recordIdentifier source="IHAS">loc.natlib.ihas.200029084</mods:recordIdentifier>
        </mods:recordInfo>
      </mods:mods>
    </mets:xmlData>
  </mets:mdWrap>
  </mets:dmdSec>
- <mets:fileSec>
```
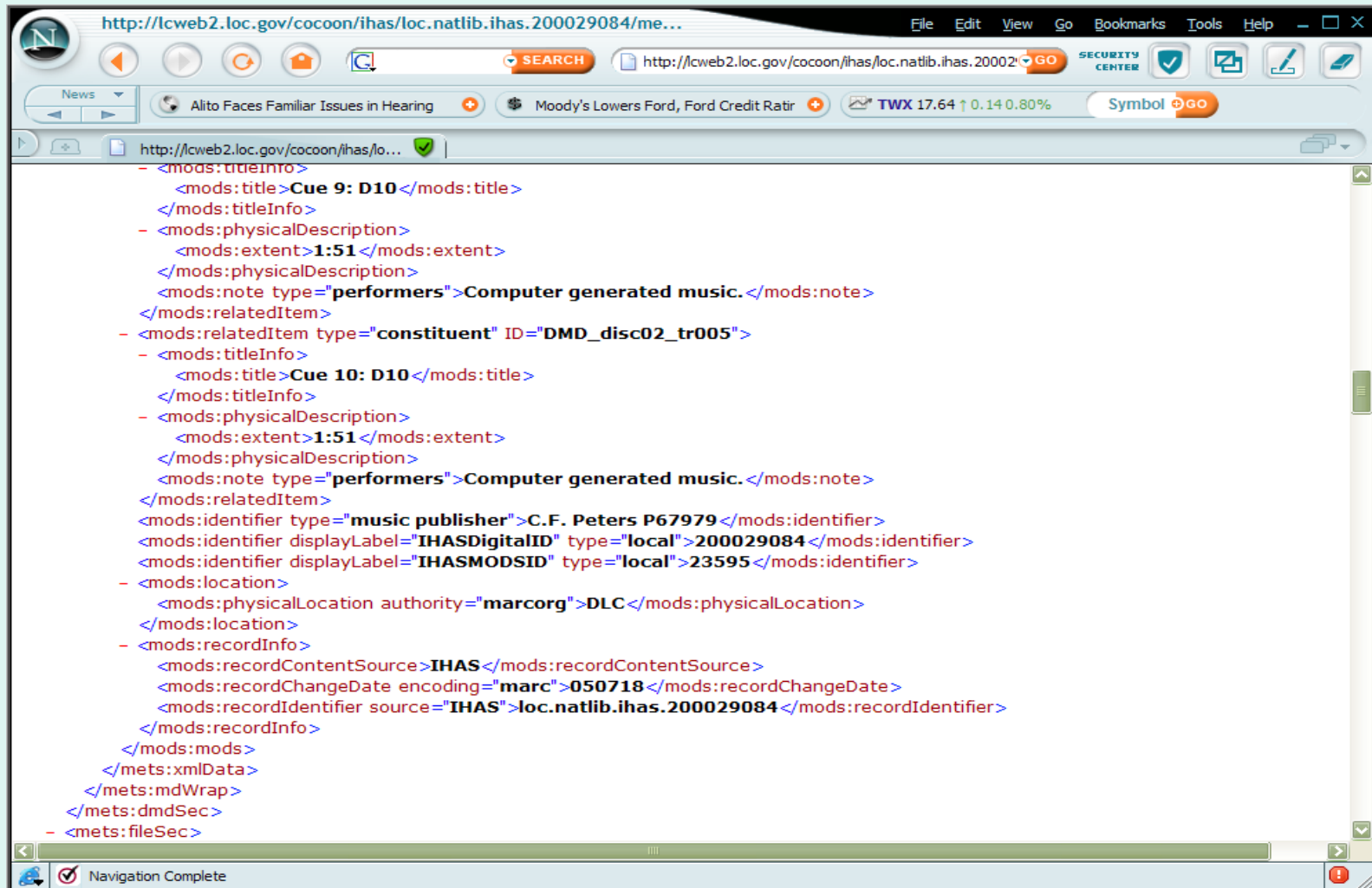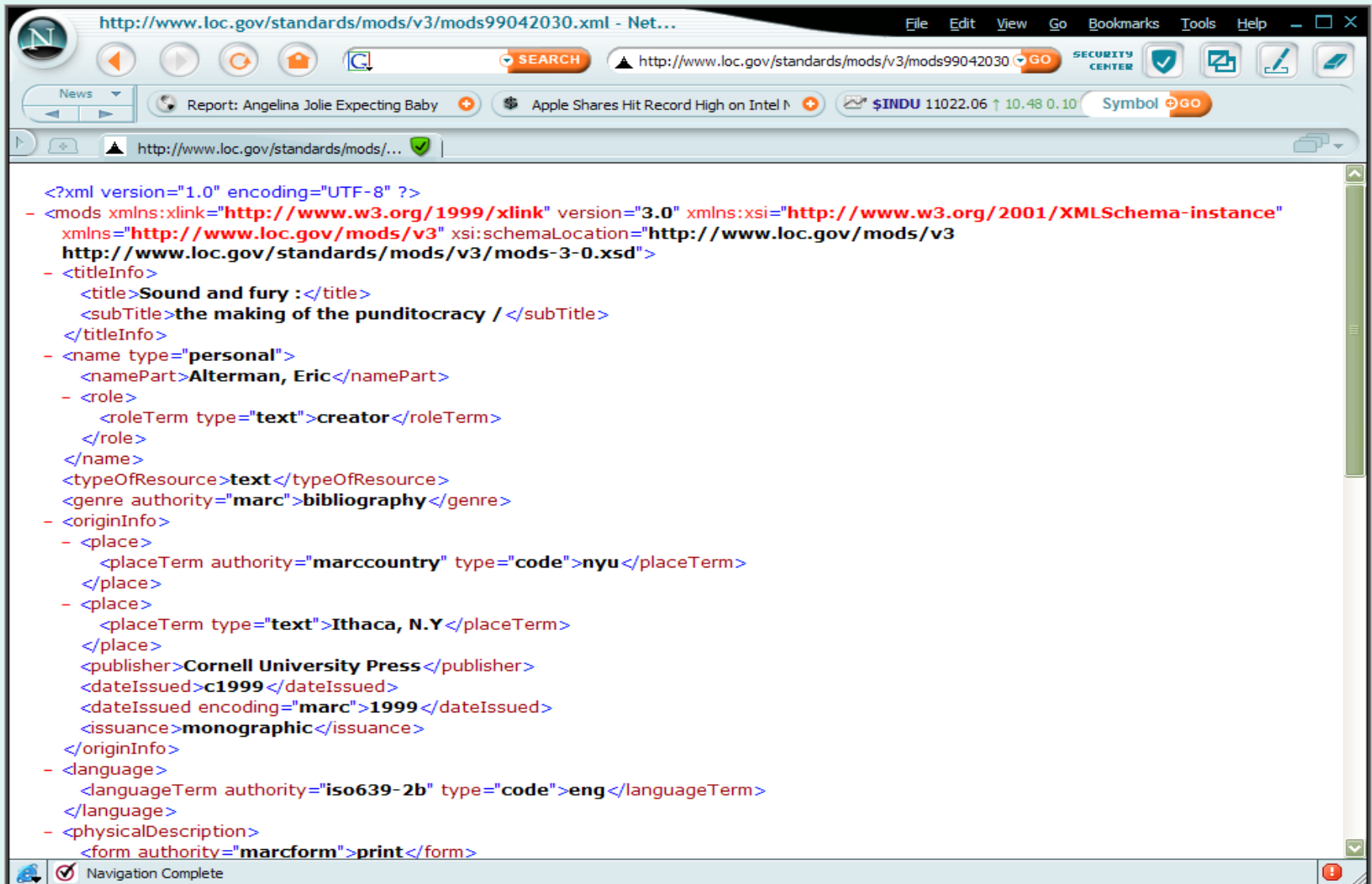
… and so on for 4 or so more screens.

Book record in MODS
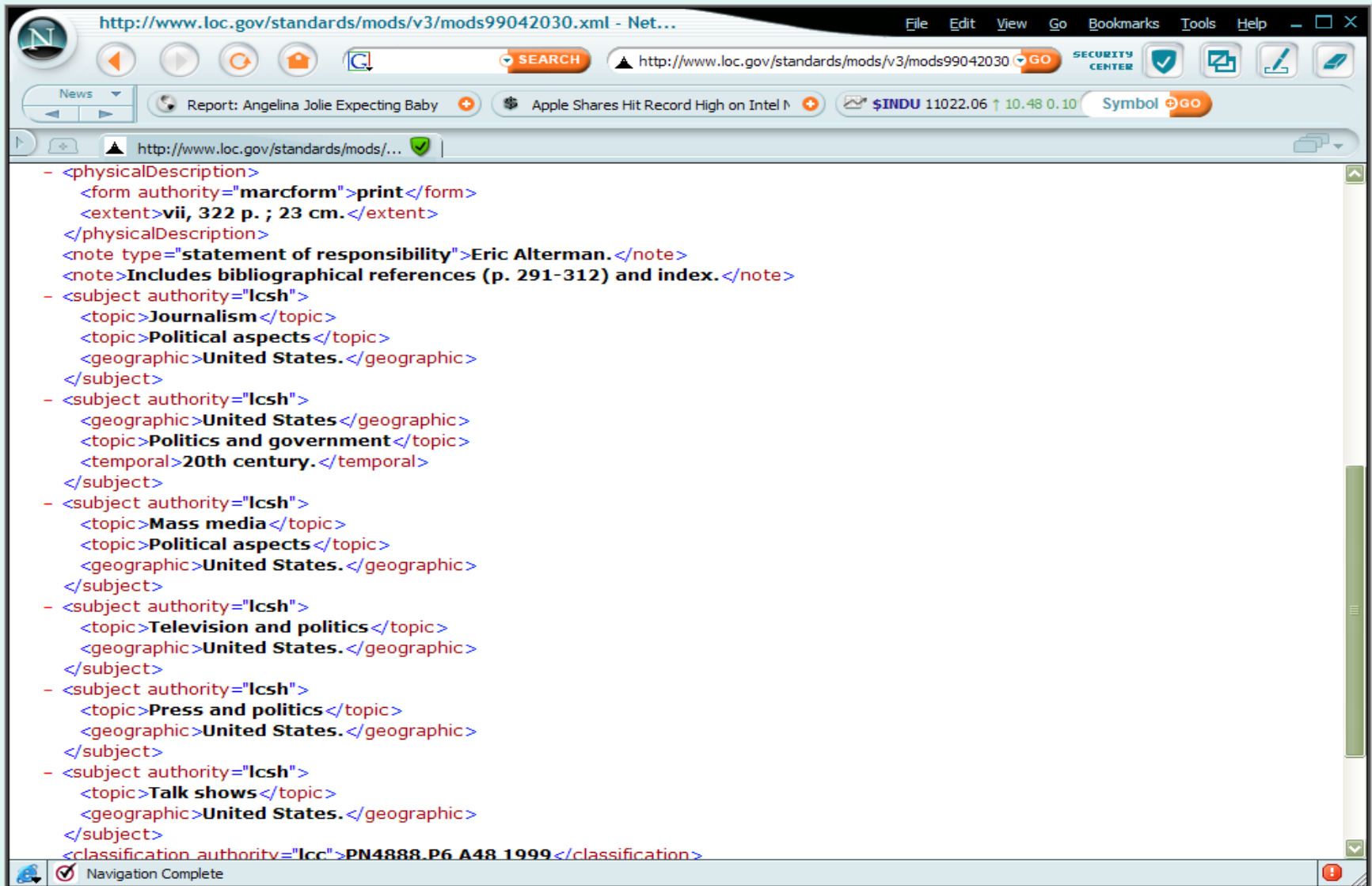
Book record continued…

```
– <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>
```

...end of Book record

```
      <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>
```
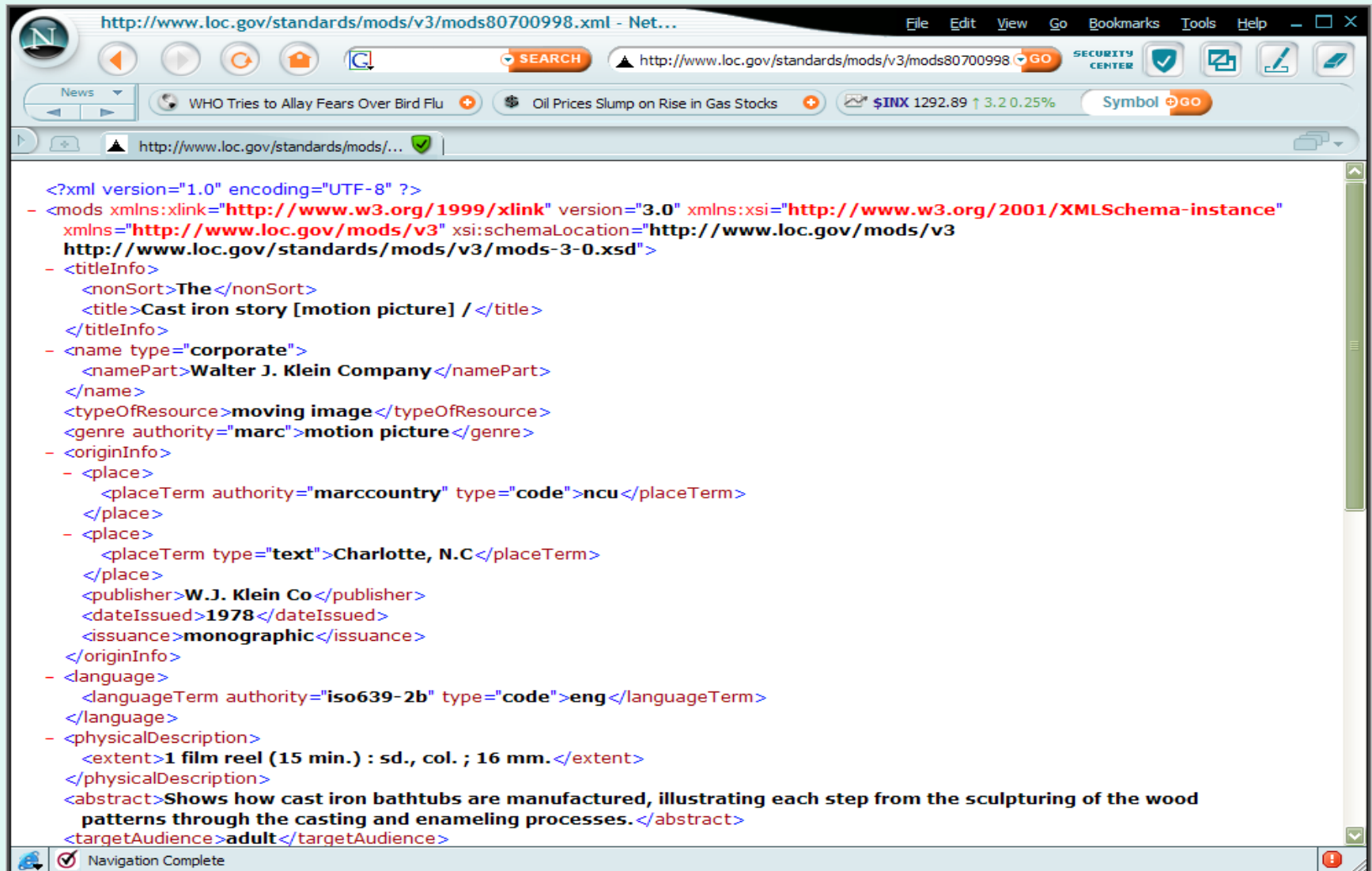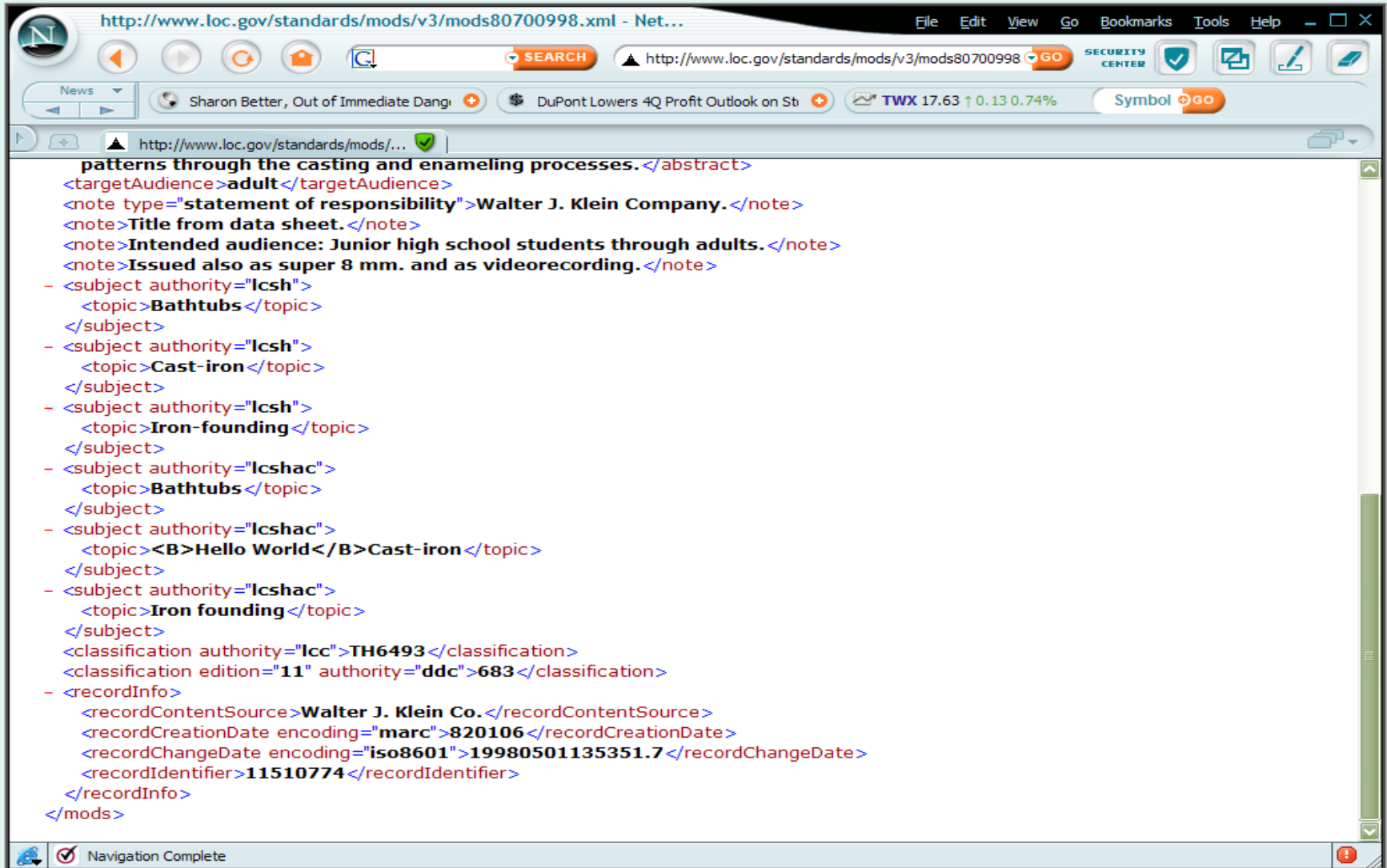
Video record in MODS

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    <targetAudience>adult</targetAudience>
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Video record continued…

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      patterns through the casting and enameling processes.</abstract>
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   <note type="statement of responsibility">Walter J. Klein Company.</note>
   <note>Title from data sheet.</note>
   <note>Intended audience: Junior high school students through adults.</note>
   <note>Issued also as super 8 mm. and as videorecording.</note>
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Navigation Complete

The end

If not of Dublin Core, at least this presentation!

Contact info for your presenters:

- Cheryl Walters, Utah State University
  Cheryl.Walters@usu.edu

- Kayla Willey, Brigham Young University
  Kayla_Willey@byu.edu