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

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# If not DC, then MODS?

## A look at the Metadata Object Description Schema

Cheryl Walters  
Kayla Willey  
**ULA Annual Conference**  
**St. George, Utah**  
May 17, 2006

# 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](http://www.diglib.org/aquifer/DLF_MODS_ImpGuidelines_ver4.pdf)

- ❖ Best Practices for Shareable Metadata

[http://oai-best.com.nsd.gov/cgi-bin/wiki.pl?PublicTOC](http://oai-best.comm.nsd.gov/cgi-bin/wiki.pl?PublicTOC)

# What MODS is...

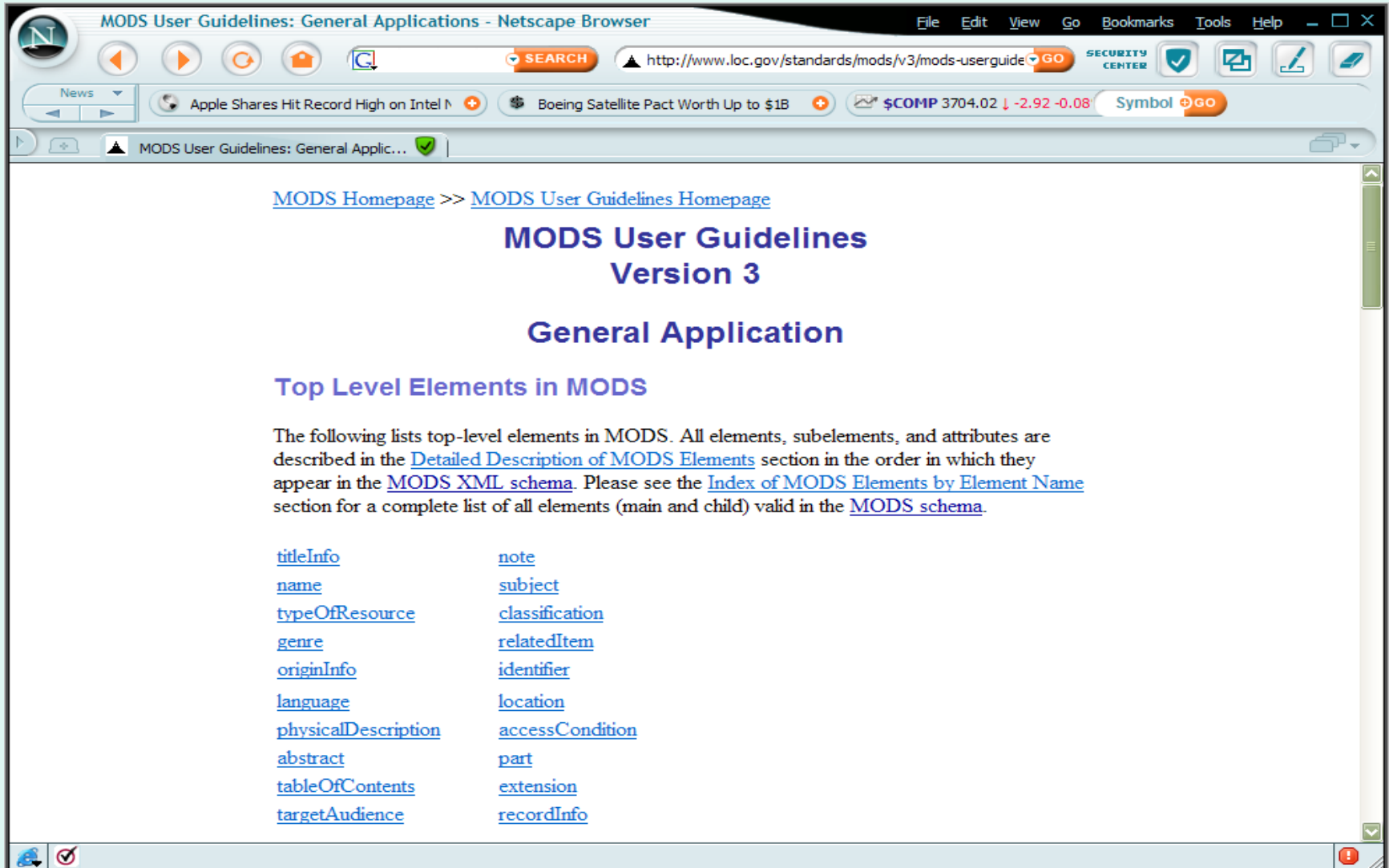
- MODS = Metadata Object Description Schema
- It is a MARC21 compatible XML schema for *descriptive* metadata only
- Created by the same folks that brought us MARC (Library of Congress)
  - Version 1: open to public review in 2002
  - Version 3.1 is most current version:  
<http://www.loc.gov/standards/mods/v3/mods-3-1.xsd>

## ... 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>



The screenshot shows a Netscape browser window with the title "MODS User Guidelines: General Applications - Netscape Browser". The address bar contains the URL "http://www.loc.gov/standards/mods/v3/mods-userguide.html". The browser interface includes a search bar, a security center icon, and a news ticker at the bottom. The main content area displays the following text:

[MODS Homepage](#) >> [MODS User Guidelines Homepage](#)

## MODS User Guidelines Version 3

### General Application

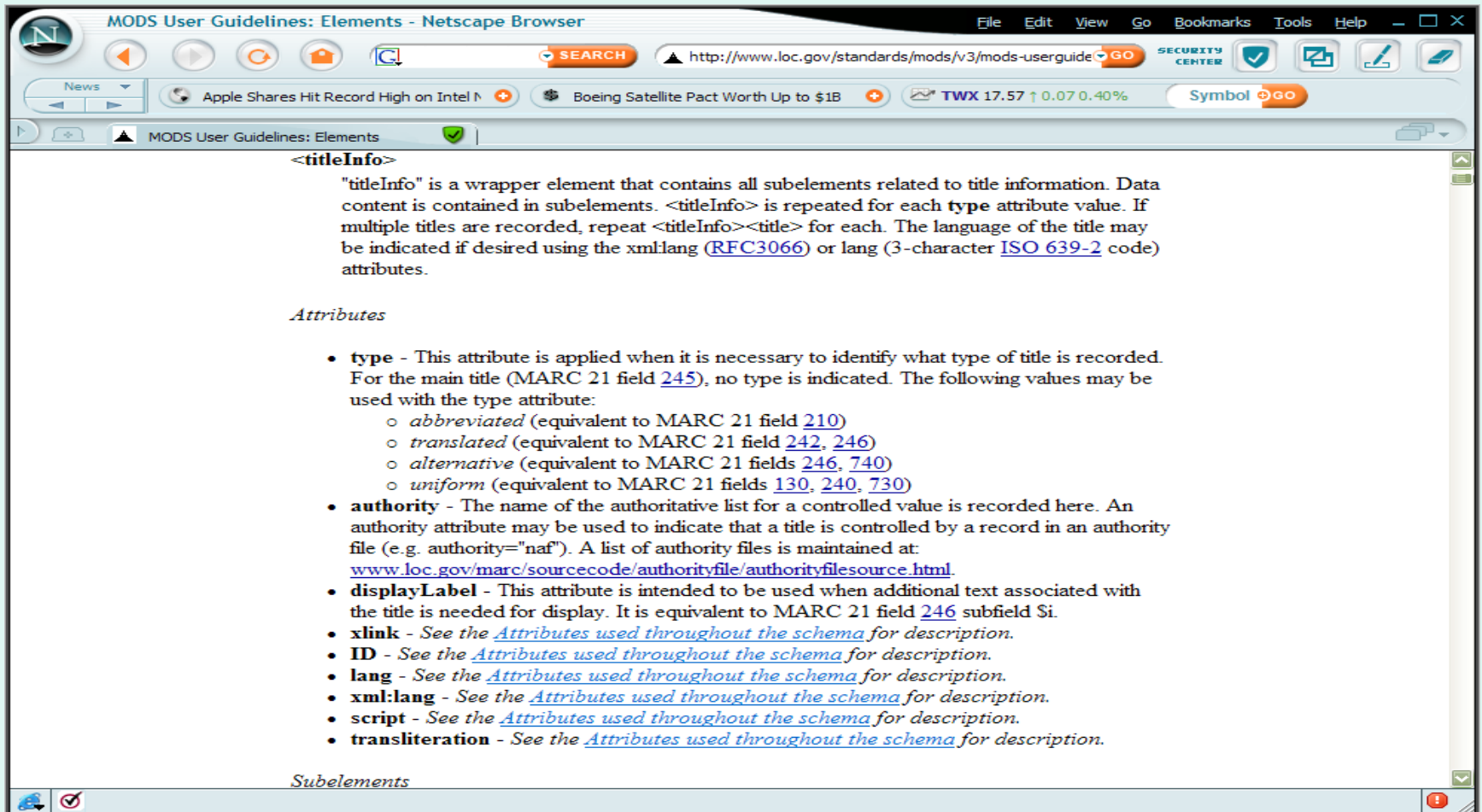
#### Top Level Elements in MODS

The following lists top-level elements in MODS. All elements, subelements, and attributes are described in the [Detailed Description of MODS Elements](#) section in the order in which they appear in the [MODS XML schema](#). Please see the [Index of MODS Elements by Element Name](#) section for a complete list of all elements (main and child) valid in the [MODS schema](#).

|                                     |                                 |
|-------------------------------------|---------------------------------|
| <a href="#">titleInfo</a>           | <a href="#">note</a>            |
| <a href="#">name</a>                | <a href="#">subject</a>         |
| <a href="#">typeOfResource</a>      | <a href="#">classification</a>  |
| <a href="#">genre</a>               | <a href="#">relatedItem</a>     |
| <a href="#">originInfo</a>          | <a href="#">identifier</a>      |
| <a href="#">language</a>            | <a href="#">location</a>        |
| <a href="#">physicalDescription</a> | <a href="#">accessCondition</a> |
| <a href="#">abstract</a>            | <a href="#">part</a>            |
| <a href="#">tableOfContents</a>     | <a href="#">extension</a>       |
| <a href="#">targetAudience</a>      | <a href="#">recordInfo</a>      |

# MODS User Guidelines

## explain attributes for each element



The screenshot shows a Netscape browser window with the title "MODS User Guidelines: Elements". The address bar contains the URL "http://www.loc.gov/standards/mods/v3/mods-userguide". The page content is as follows:

**<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](http://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 `Si`.
- **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"

↑  
Value (i.e. Controlled term)

↑  
Element

# ... and show & explain all sub elements

MODS User Guidelines: Elements - Netscape Browser

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

- **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

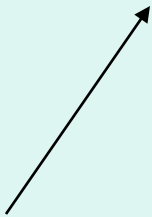
Element



<originInfo

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

Sub  
elements



Attribute



Text stipulated  
as the "type"



Value (i.e. Place name)

Sub  
element



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

MODS User Guidelines: Elements - Netscape Browser

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

Apple Shares Hit Record High on Intel  
Boeing Satellite Pact Worth Up to \$1B  
\$COMP 3704.02 ↓ -2.92 -0.08  
Symbol

MODS User Guidelines: Elements

<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.

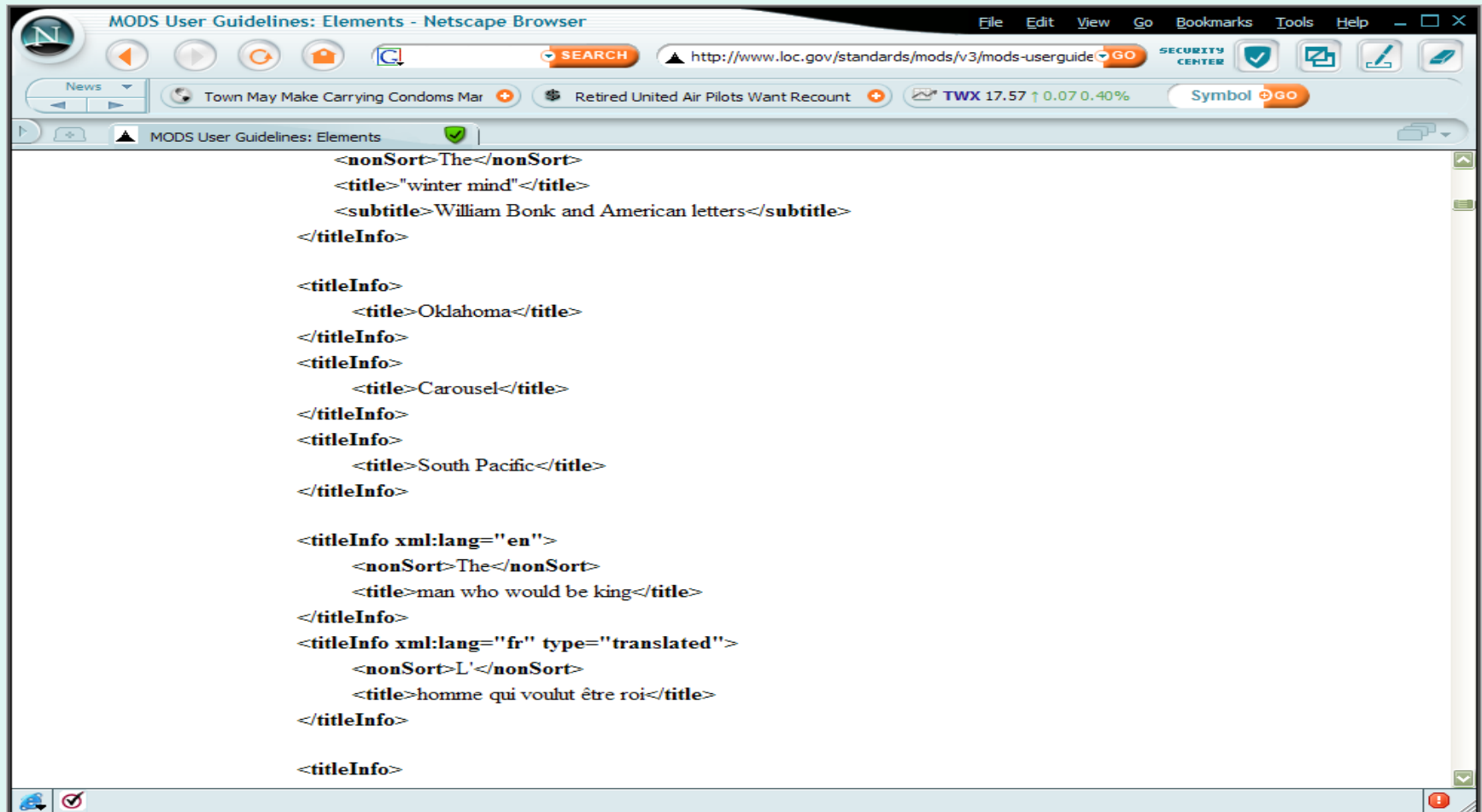
<titleInfo>

<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...



The screenshot shows a Netscape browser window titled "MODS User Guidelines: Elements". The address bar contains the URL "http://www.loc.gov/standards/mods/v3/mods-userguide". The browser's status bar at the bottom shows "MODS User Guidelines: Elements" with a green checkmark icon. The main content area displays several XML code snippets for the <titleInfo> element:

```
<nonSort>The</nonSort>
<title>"winter mind"</title>
<subtitle>William Bonk and American letters</subtitle>
</titleInfo>

<titleInfo>
  <title>Oklahoma</title>
</titleInfo>

<titleInfo>
  <title>Carousel</title>
</titleInfo>

<titleInfo>
  <title>South Pacific</title>
</titleInfo>

<titleInfo xml:lang="en">
  <nonSort>The</nonSort>
  <title>man who would be king</title>
</titleInfo>

<titleInfo xml:lang="fr" type="translated">
  <nonSort>L'</nonSort>
  <title>homme qui voulut être roi</title>
</titleInfo>

<titleInfo>
```

# 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>
```

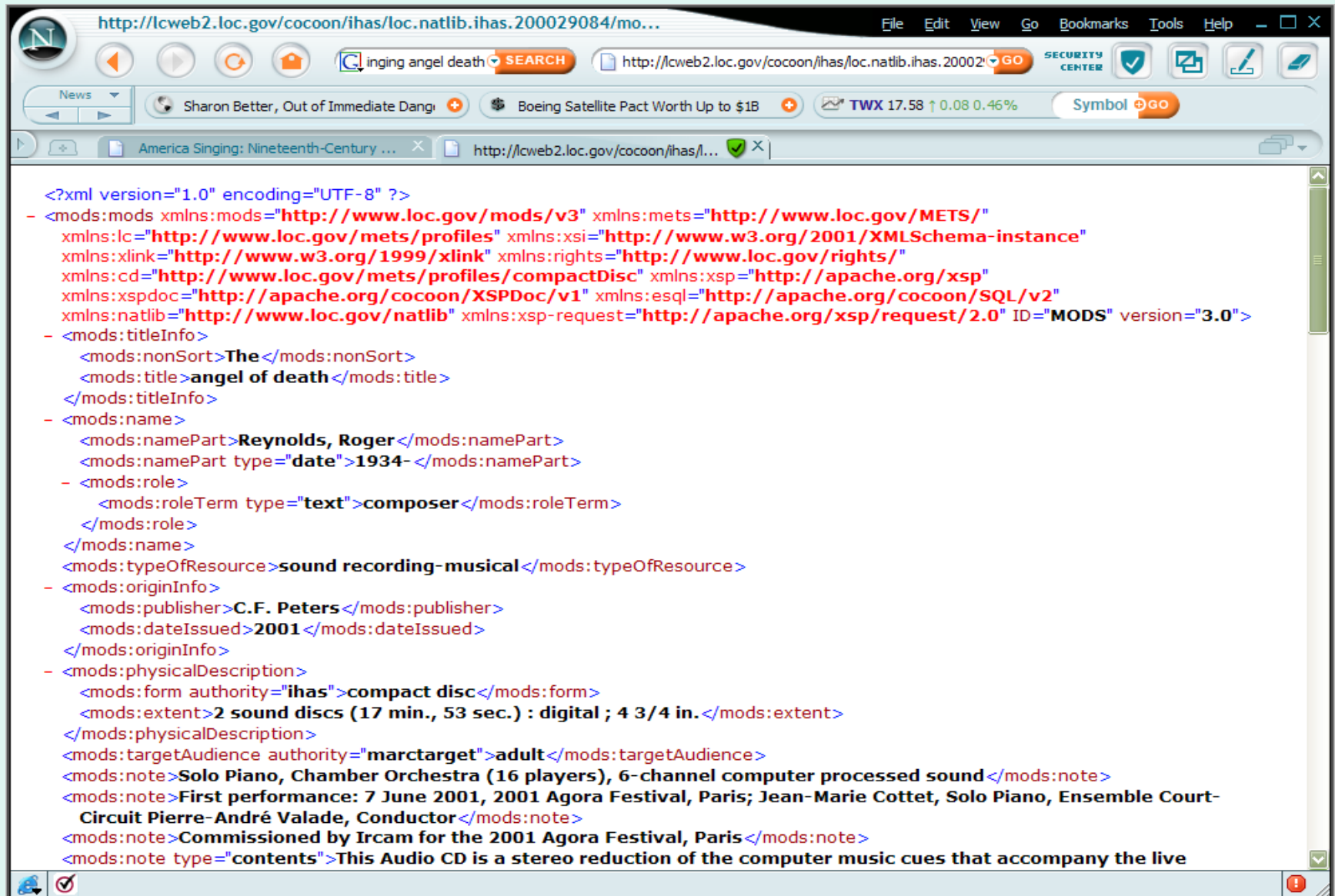
- the term **type** functions as an attribute with the value **series**
- The title is given inside <titleInfo> and </titleInfo> tags

# Metadata record with MODS and METS format options

The screenshot shows a web browser window with the following content:

- Browser Title:** Compact Disc Brief Display: The angel of death / Roger Reynolds [...]
- Address Bar:** http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.20002...
- Page Header:** The Library of Congress *I Hear America Singing* Performing Arts Reading Room
- Navigation:** home | disc contents | **compact disc brief display**
- Section Title:** The angel of death / Roger Reynolds [compact disc]
- Metadata Fields:**
  - P67979**
  - 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](#)
- Page Footer:** The Library of Congress November 9, 2005 Performing Arts Reading Room Ask a Librarian

# MODS record



The screenshot shows a web browser window with the address bar displaying `http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.200029084/mo...`. The browser's search bar contains the text "inging angel death" and a "SEARCH" button. The browser's address bar also shows a "GO" button. The browser's toolbar includes buttons for "File", "Edit", "View", "Go", "Bookmarks", "Tools", and "Help". The browser's status bar shows the text "Sharon Better, Out of Immediate Dang...", "Boeing Satellite Pact Worth Up to \$1B", and "TWX 17.58 ↑ 0.08 0.46%". The browser's address bar also shows a "Symbol" button and a "GO" button.

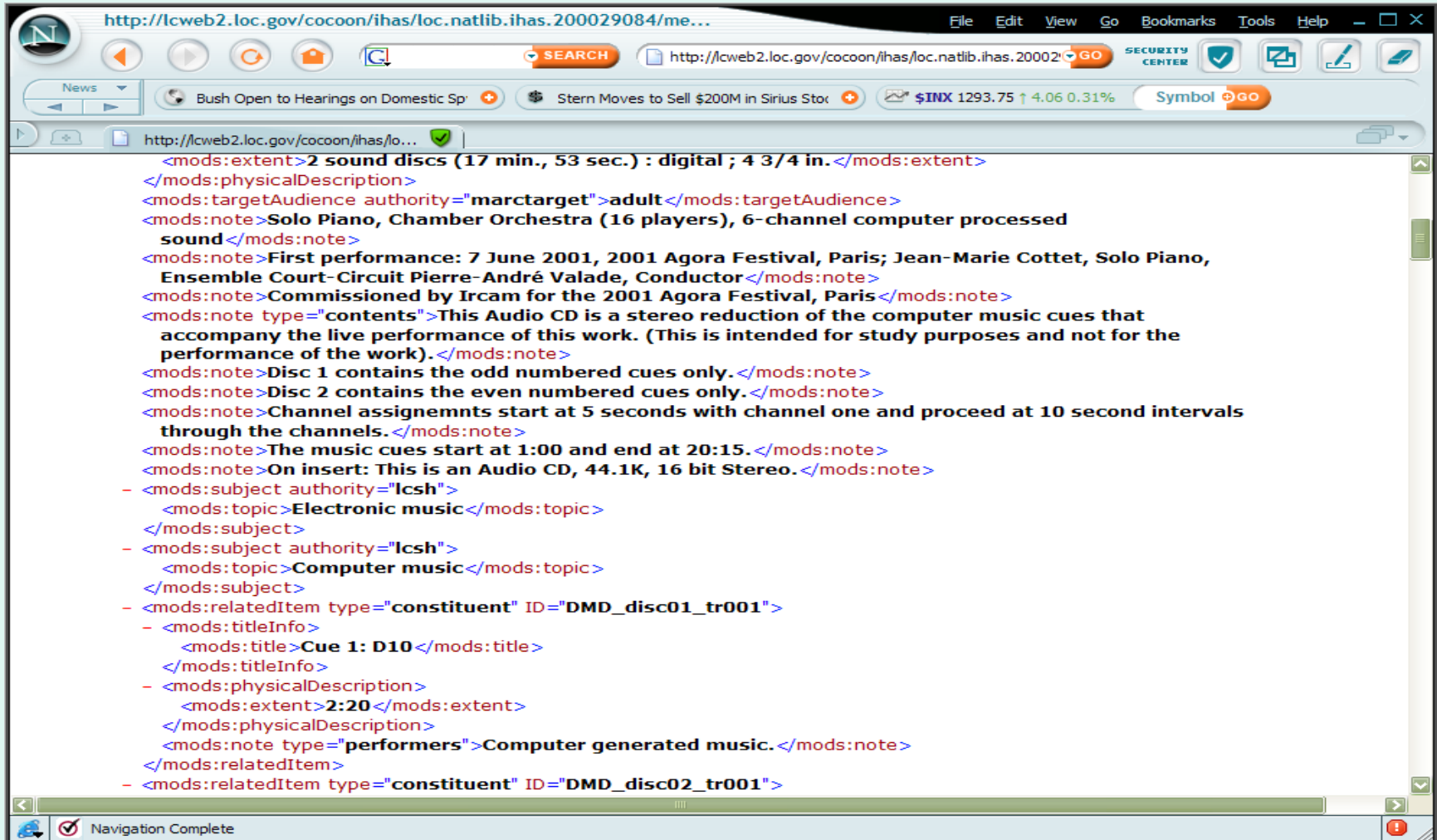
```
<?xml version="1.0" encoding="UTF-8" ?>
- <mods:mods xmlns:mods="http://www.loc.gov/mods/v3" xmlns:mets="http://www.loc.gov/METS/"
  xmlns:lc="http://www.loc.gov/mets/profiles" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:rights="http://www.loc.gov/rights/"
  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

```
<?xml version="1.0" encoding="UTF-8" ?>
- <mets:mets OBJID="loc.natlib.ihhas.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...



The screenshot shows a web browser window with the address bar containing the URL `http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.200029084/me...`. The browser's address bar also shows a search bar and a "GO" button. The main content area displays XML metadata for audio discs, including physical descriptions, target audiences, notes, and subject terms.

```
<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">
```

The browser's status bar at the bottom indicates "Navigation Complete".

# (3) Continuation of MODS inside METS...



The screenshot shows a web browser window with the address bar containing the URL `http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.200029084/me...`. The browser's address bar also shows a search bar and a "GO" button. The browser's toolbar includes "File", "Edit", "View", "Go", "Bookmarks", "Tools", and "Help". The browser's status bar at the bottom shows "Navigation Complete".

```
- <mods:titleInfo>
  <mods:title>Cue 2: D06</mods:title>
</mods:titleInfo>
- <mods:physicalDescription>
  <mods:extent>2:10</mods:extent>
</mods:physicalDescription>
  <mods:note type="performers">Computer generated music.</mods:note>
  <mods:note>0:00:00 to 0:00:46</mods:note>
</mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc01_tr002">
  - <mods:titleInfo>
    <mods:title>Cue 3: D10</mods:title>
  </mods:titleInfo>
  - <mods:physicalDescription>
    <mods:extent>1:47</mods:extent>
  </mods:physicalDescription>
    <mods:note type="performers">Computer generated music.</mods:note>
  </mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc02_tr002">
  - <mods:titleInfo>
    <mods:title>Cue 4: D10</mods:title>
  </mods:titleInfo>
  - <mods:physicalDescription>
    <mods:extent>2:50</mods:extent>
  </mods:physicalDescription>
    <mods:note type="performers">Computer generated music.</mods:note>
  </mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc01_tr003">
  - <mods:titleInfo>
    <mods:title>Cue 5: D10</mods:title>
  </mods:titleInfo>
  - <mods:physicalDescription>
    <mods:extent>1:21</mods:extent>
```

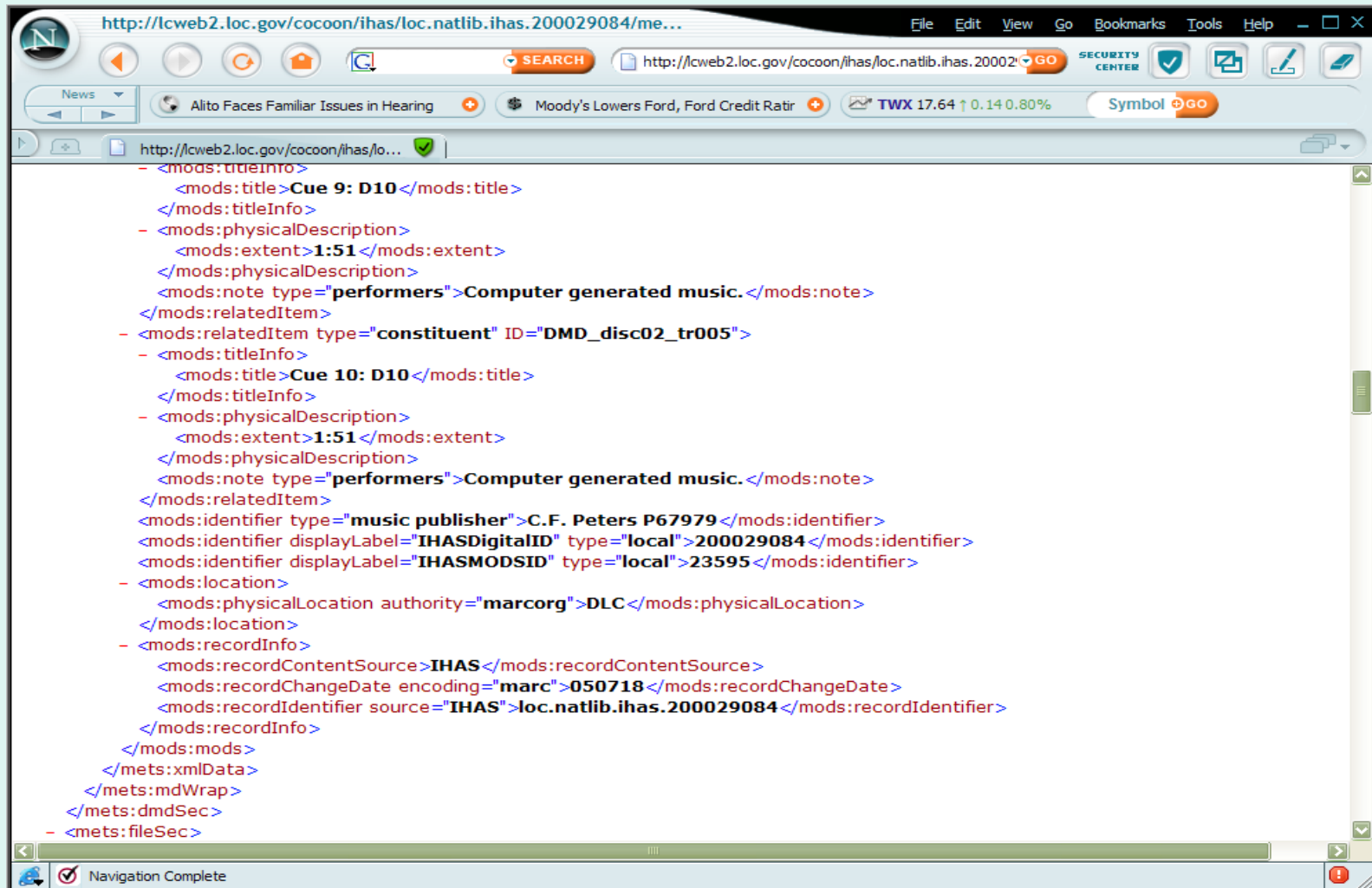
# (4) Continuation of MODS inside METS...



The screenshot shows a web browser window with the address bar containing the URL `http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.200029084/me...`. The browser's address bar also shows a search bar and a "GO" button. The main content area displays XML code for MODS elements, including `<mods:extent>`, `<mods:physicalDescription>`, `<mods:note type="performers">`, and `<mods:relatedItem type="constituent" ID="DMD_disc02_tr003">`. The code is color-coded, with tags in red and text in black. The browser's status bar at the bottom indicates "Navigation Complete".

```
<mods:extent>1:21</mods:extent>
</mods:physicalDescription>
<mods:note type="performers">Computer generated music.</mods:note>
</mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc02_tr003">
- <mods:titleInfo>
  <mods:title>Cue 6: D10</mods:title>
</mods:titleInfo>
- <mods:physicalDescription>
  <mods:extent>1:11</mods:extent>
</mods:physicalDescription>
  <mods:note type="performers">Computer generated music.</mods:note>
</mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc01_tr004">
- <mods:titleInfo>
  <mods:title>Cue 7: D10</mods:title>
</mods:titleInfo>
- <mods:physicalDescription>
  <mods:extent>1:15</mods:extent>
</mods:physicalDescription>
  <mods:note type="performers">Computer generated music.</mods:note>
</mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc02_tr004">
- <mods:titleInfo>
  <mods:title>Cue 8: D10</mods:title>
</mods:titleInfo>
- <mods:physicalDescription>
  <mods:extent>0:56</mods:extent>
</mods:physicalDescription>
  <mods:note type="performers">Computer generated music.</mods:note>
</mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc01_tr005">
```

# (5) Continuation of MODS inside METS...



The screenshot shows a web browser window with the address bar containing the URL `http://lcweb2.loc.gov/cocoon/ihas/loc.natlib.ihas.200029084/me...`. The browser's address bar also shows a search bar and a "GO" button. The main content area of the browser displays XML code, which is a continuation of MODS (Metadata Object Description Schema) inside a METS (Metadata Encoding and Transmission Syntax) structure. The code is as follows:

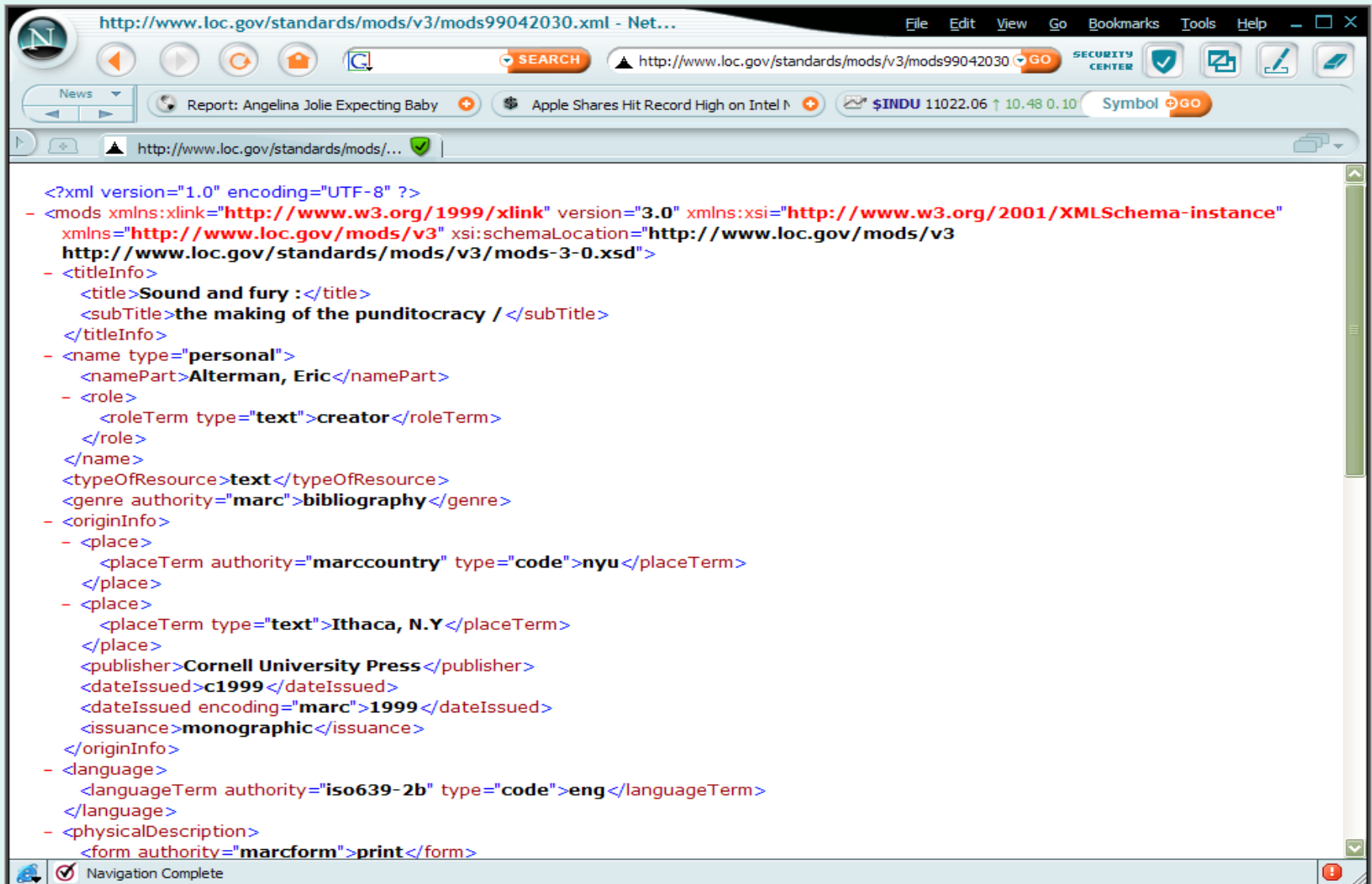
```
- <mods:titleInfo>
  <mods:title>Cue 9: D10</mods:title>
</mods:titleInfo>
- <mods:physicalDescription>
  <mods:extent>1:51</mods:extent>
</mods:physicalDescription>
  <mods:note type="performers">Computer generated music.</mods:note>
</mods:relatedItem>
- <mods:relatedItem type="constituent" ID="DMD_disc02_tr005">
- <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>
```

The browser's status bar at the bottom indicates "Navigation Complete".

... and so on for 4 or so more screens.



# Book record in MODS

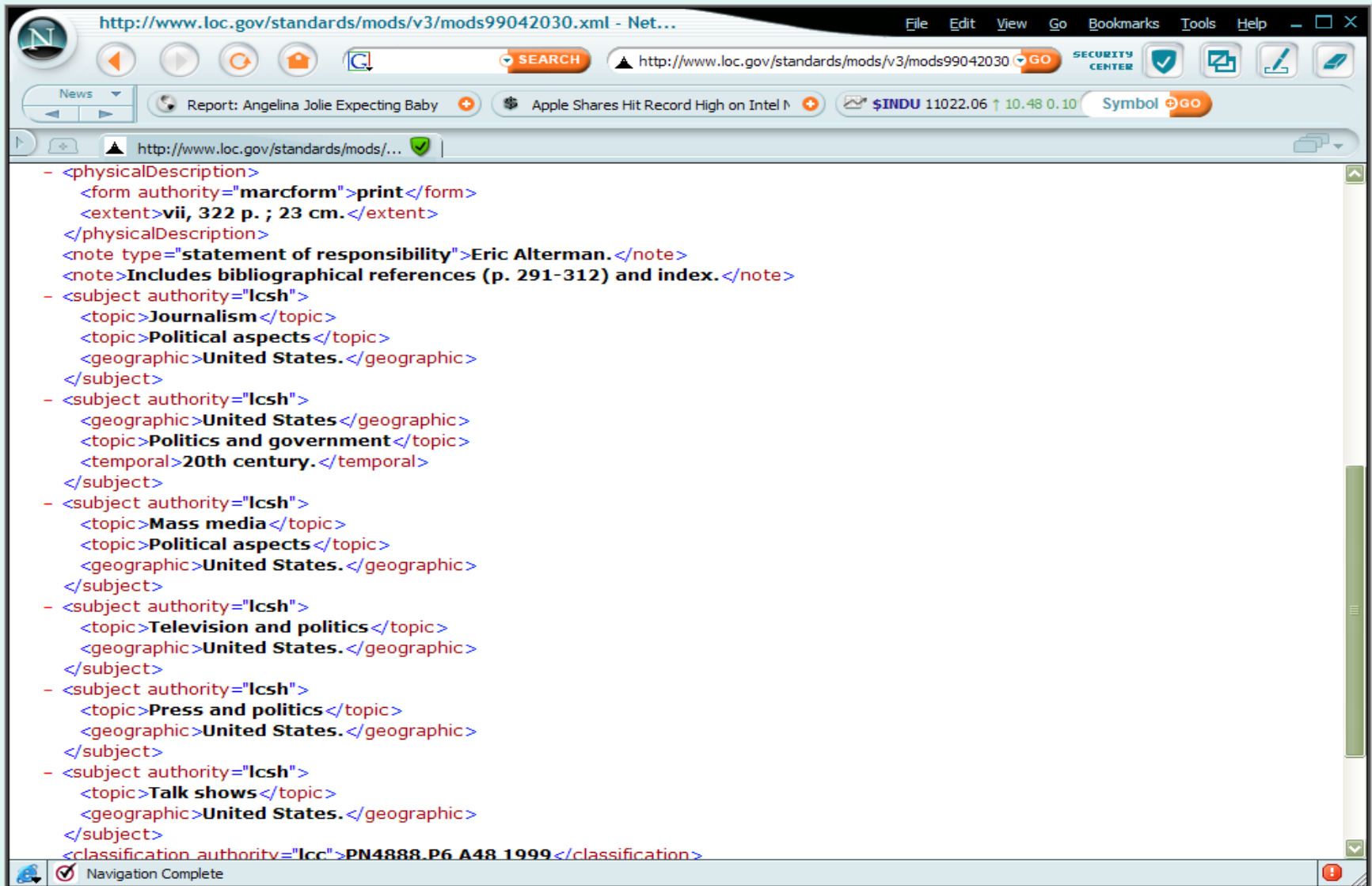


The screenshot shows a web browser window with the address bar displaying `http://www.loc.gov/standards/mods/v3/mods99042030.xml - Net...`. The browser's address bar also shows a search bar with the text `http://www.loc.gov/standards/mods/v3/mods99042030` and a "GO" button. The browser's status bar at the bottom indicates "Navigation Complete".

The main content of the browser is an XML document in MODS format. The XML is displayed with syntax highlighting. The root element is `<?xml version="1.0" encoding="UTF-8" ?>`. The main element is `<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">`. The XML content is as follows:

```
<?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>
```

# Book record continued...

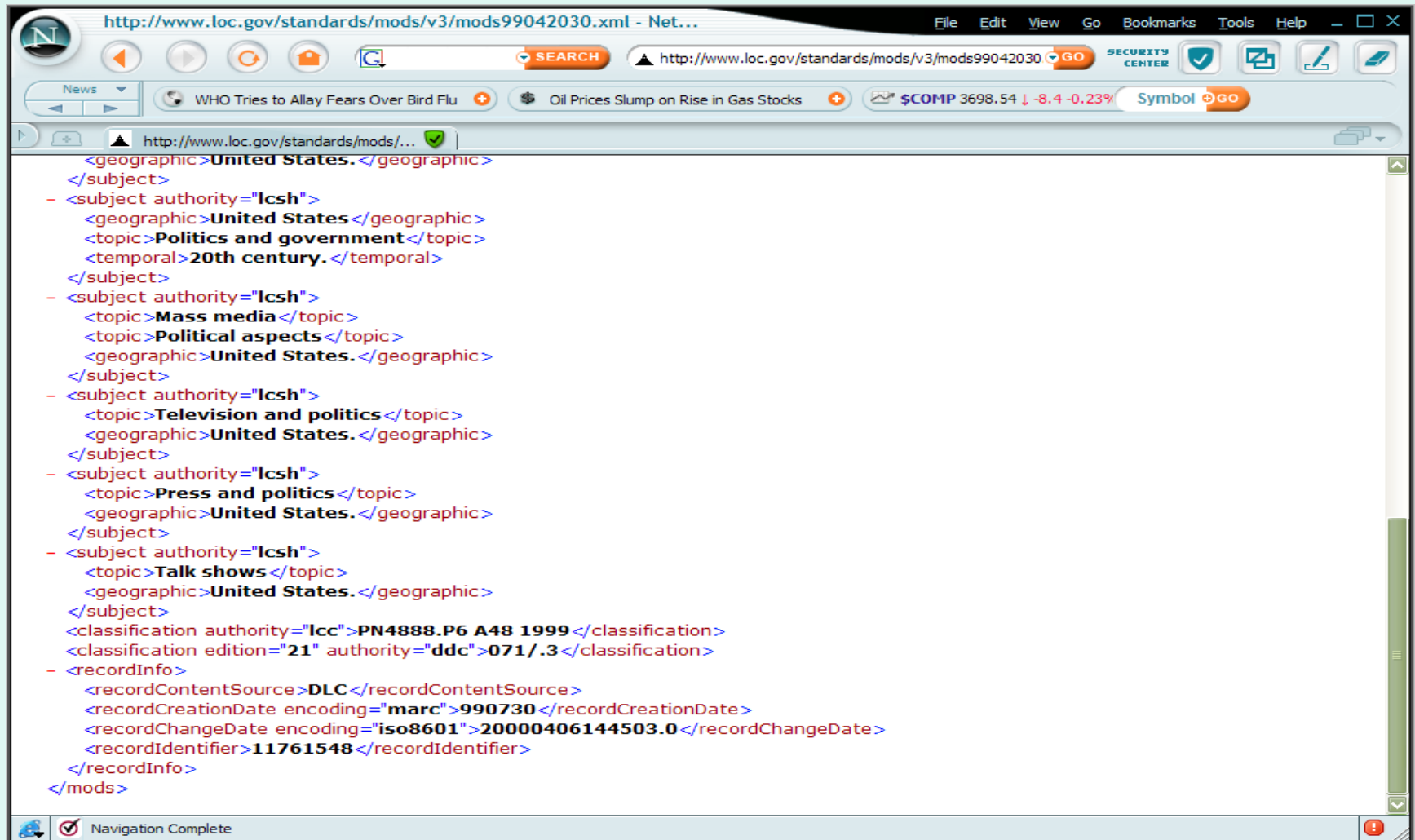


The screenshot shows a web browser window with the address bar containing the URL `http://www.loc.gov/standards/mods/v3/mods99042030.xml`. The browser's address bar also shows a search bar with the text "SEARCH" and a "GO" button. The browser's status bar at the bottom indicates "Navigation Complete".

The main content area of the browser displays XML data for a book record, including physical description, subject terms, and classification information. The XML is as follows:

```
- <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="lcsjsh">
  <topic>Journalism</topic>
  <topic>Political aspects</topic>
  <geographic>United States.</geographic>
</subject>
- <subject authority="lcsjsh">
  <geographic>United States</geographic>
  <topic>Politics and government</topic>
  <temporal>20th century.</temporal>
</subject>
- <subject authority="lcsjsh">
  <topic>Mass media</topic>
  <topic>Political aspects</topic>
  <geographic>United States.</geographic>
</subject>
- <subject authority="lcsjsh">
  <topic>Television and politics</topic>
  <geographic>United States.</geographic>
</subject>
- <subject authority="lcsjsh">
  <topic>Press and politics</topic>
  <geographic>United States.</geographic>
</subject>
- <subject authority="lcsjsh">
  <topic>Talk shows</topic>
  <geographic>United States.</geographic>
</subject>
<classification authority="lcc">PN4888.P6 A48 1999</classification>
```

# ...end of Book record

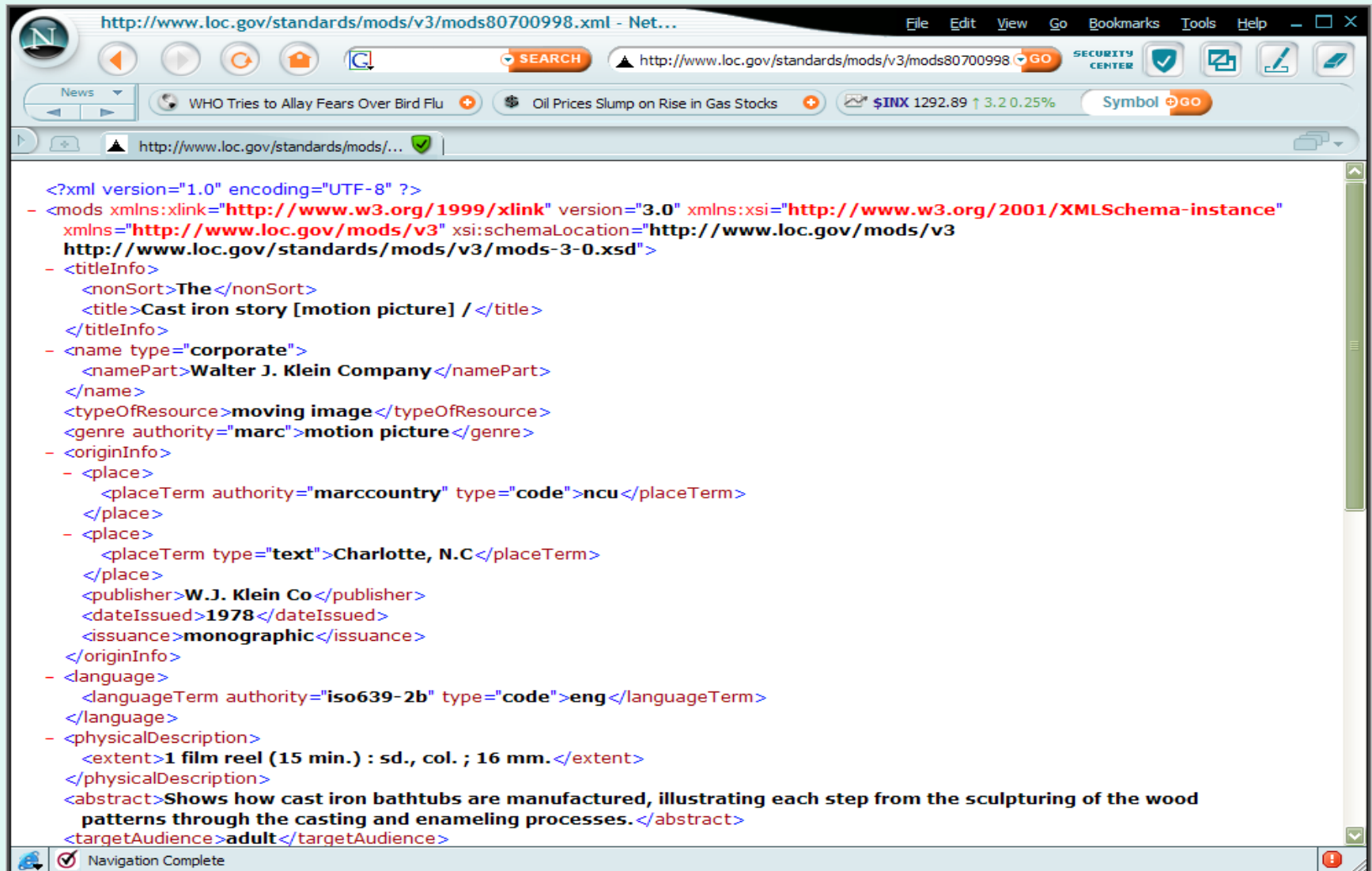


The screenshot shows a web browser window with the address bar displaying `http://www.loc.gov/standards/mods/v3/mods99042030.xml - Net...`. The browser's address bar also shows a search bar with the text `http://www.loc.gov/standards/mods/v3/mods99042030` and a `GO` button. The browser's status bar at the bottom indicates `Navigation Complete`.

The main content of the browser window is XML data, which is a MARC record for a book. The XML is displayed in a monospaced font and includes the following elements:

```
<geographic>United States.</geographic>
</subject>
- <subject authority="Icsh">
  <geographic>United States</geographic>
  <topic>Politics and government</topic>
  <temporal>20th century.</temporal>
</subject>
- <subject authority="Icsh">
  <topic>Mass media</topic>
  <topic>Political aspects</topic>
  <geographic>United States.</geographic>
</subject>
- <subject authority="Icsh">
  <topic>Television and politics</topic>
  <geographic>United States.</geographic>
</subject>
- <subject authority="Icsh">
  <topic>Press and politics</topic>
  <geographic>United States.</geographic>
</subject>
- <subject authority="Icsh">
  <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

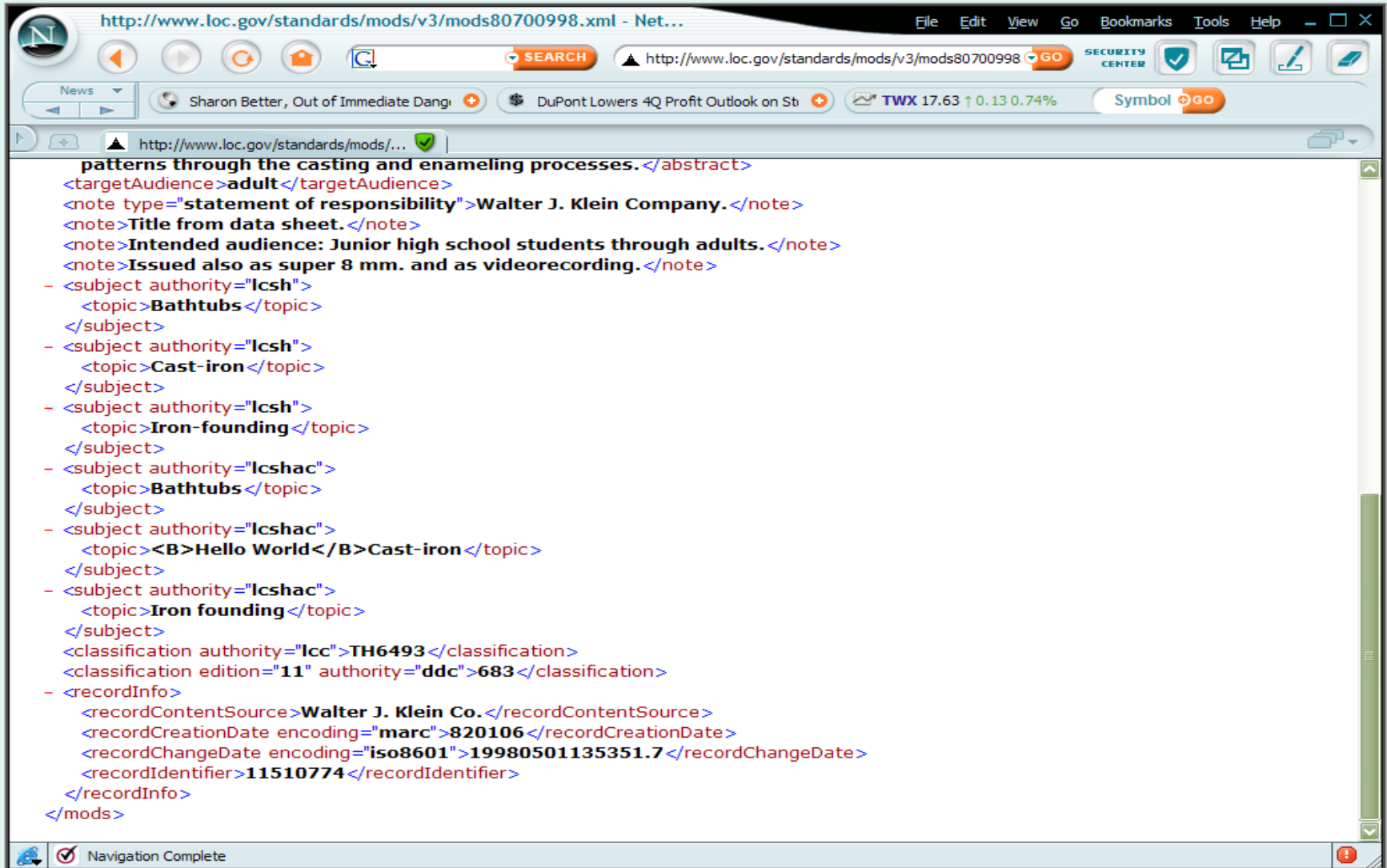


The screenshot shows a web browser window with the address bar displaying `http://www.loc.gov/standards/mods/v3/mods80700998.xml - Net...`. The browser interface includes navigation buttons, a search bar, and a news ticker. The main content area displays an XML MODS record for a video. The record includes fields for title, name, type of resource, origin information, language, and physical description.

```
<?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>
  <nonSort>The</nonSort>
  <title>Cast iron story [motion picture] / </title>
</titleInfo>
- <name type="corporate">
  <namePart>Walter J. Klein Company</namePart>
</name>
<typeOfResource>moving image</typeOfResource>
<genre authority="marc">motion picture</genre>
- <originInfo>
- <place>
  <placeTerm authority="marccountry" type="code">ncu</placeTerm>
</place>
- <place>
  <placeTerm type="text">Charlotte, N.C</placeTerm>
</place>
  <publisher>W.J. Klein Co</publisher>
  <dateIssued>1978</dateIssued>
  <issuance>monographic</issuance>
</originInfo>
- <language>
  <languageTerm authority="iso639-2b" type="code">eng</languageTerm>
</language>
- <physicalDescription>
  <extent>1 film reel (15 min.) : sd., col. ; 16 mm.</extent>
</physicalDescription>
  <abstract>Shows how cast iron bathtubs are manufactured, illustrating each step from the sculpturing of the wood
  patterns through the casting and enameling processes.</abstract>
  <targetAudience>adult</targetAudience>
```

Navigation Complete

# Video record continued...



The screenshot shows a web browser window with the address bar displaying `http://www.loc.gov/standards/mods/v3/mods80700998.xml`. The browser interface includes navigation buttons, a search bar, and a toolbar with icons for security, printing, and other functions. The main content area displays XML data in a color-coded format, with tags in red and text in black. The data includes an abstract, target audience, notes, subject terms, classification codes, and record information.

```
patterns through the casting and enameling processes.</abstract>
<targetAudience>adult</targetAudience>
<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>
- <subject authority="lcsh">
  <topic>Bathtubs</topic>
</subject>
- <subject authority="lcsh">
  <topic>Cast-iron</topic>
</subject>
- <subject authority="lcsh">
  <topic>Iron-founding</topic>
</subject>
- <subject authority="lcshac">
  <topic>Bathtubs</topic>
</subject>
- <subject authority="lcshac">
  <topic><B>Hello World</B>Cast-iron</topic>
</subject>
- <subject authority="lcshac">
  <topic>Iron founding</topic>
</subject>
<classification authority="lcc">TH6493</classification>
<classification edition="11" authority="ddc">683</classification>
- <recordInfo>
  <recordContentSource>Walter J. Klein Co.</recordContentSource>
  <recordCreationDate encoding="marc">820106</recordCreationDate>
  <recordChangeDate encoding="iso8601">19980501135351.7</recordChangeDate>
  <recordIdentifier>11510774</recordIdentifier>
</recordInfo>
</mods>
```

Navigation Complete

# The end

If not of Dublin Core, at least this presentation!

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