Guidelines for MODS Records

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Introduction

This manual has been developed for use within Brown University's Center for Digital Initiatives (CDI) by anyone describing digital resources whether born digital or reformatted analog.

These guidelines represent best practice within the CDI for creating MODS (Metadata Object Description Schema[1]) records. Although many creators of metadata will not meet the full recommendations of this manual, these guidelines will provide a ready reference for any level of metadata.

The following principals have been followed in the Center for Digital Initiatives MODS Guidelines:

- They are based on MODS Schema version 3.2
- The resources being described are, for the most part, digitized from analog originals
- Certain elements are not currently used in manually created metadata, but appear in MODS records converted from MARC

This manual includes a discussion of each MODS element including

- The definition of each element from the MODS User Guidelines[2]
- A summary of CDI requirements for the elements
- CDI usage guidelines
- Examples

Several full examples of MODS records may be found in the Appendix.

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[1] http://www.loc.gov/standards/mods
[2] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

Summary of Requirements

Element	Required	Subelement(s)/Attribute required	Repeatable
<titleInfo>	Yes	**<title>** subelement	No
<name>	No	N/A	Yes
<typeOfResource>	Yes	No	Yes
<genre>	Yes	No	Yes
<originInfo>	Yes	One date subelement with **keydate="yes"**	Yes
<language>	Yes	Subelement **<languageTerm>** type attribute	Yes
<physicalDescription>	Yes	Subelement **<extent>** Subelement **<digitalOrigin>**	No
****	No	No	Yes
<tableOfContents>	No	No	Yes
<targetAudience>	No	No	Yes
<note>	No	No	Yes
<subject>	No	No	Yes
<classification>	No	No	Yes
<relatedItem>	Yes	**type="host"** for collection	Yes
<identifier>	No	No	Yes
<location>	No	No	Yes
<accessCondition>	No	No	Yes
<part>	No	No	Yes
<extension>	No	No	Yes
<recordInfo>	No	No	Yes

\<titleInfo\>

MODS Element	Subelements
\<titleInfo\>	\<title\>
	\<subTitle\>
	\<partNumber\>
	\<partName\>
	\<nonSort\>

DEFINITION[3]

"titleInfo" is a wrapper element that contains all subelements related to title information.

REQUIREMENTS

CDI guidelines require the use of at least one **\<titleInfo\>** element with one **\<title\>** subelement. Other subelements are recommended when applicable. This element is repeatable.

USAGE GUIDELINES

Titles are often the primary access points for digital resources and are displayed in search results, aiding users in their retrieval. Therefore a minimum of one **\<titleInfo\>\<title\>** element is required. Additional **\<titleInfo\>** elements should be added as necessary.

The title should be transcribed from the item or digital surrogate, using a content standard such as the Anglo-American Cataloging Rules, 2nd edition (AACR2) or Cataloging Cultural Objects. Follow the rules for capitalization, abbreviation, etc. as designated in that standard. One standard should be used consistently for each collection.

If there is no title on an item, construct a title following guidelines given in the content standard used. Do not use brackets for a supplied title. When supplying a title, make it as descriptive and specific as possible to facilitate searching but avoid lengthy titles. Additional information about the resource may be supplied in the **\<note\>**

<u>Attributes:</u>

Attributes are applied at the **\<titleInfo\>** level; there are no attributes at the subelement level.

type [REQUIRED IF APPLICABLE]

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[3] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

Do not use the **type** attribute on the primary title of the resources. For all additional titles, use the attribute to record the type of title present. Permitted values are:

> **abbreviated**
> **translated**
> **alternative**
> **uniform**

authority [OPTIONAL]

The **authority** attribute is used to indicate whether the title is controlled by a record in an authority file. At present the CDI does not require the recording of an authority file in an attribute. If an authority file is consulted, is may be recorded in this attribute. At this time, the permissible value is:

> **naf** (NACO authority file)

displayLabel [REQUIRED IF APPLICABLE]

The **displayLabel** attribute must be used whenever the attribute type="alternative" is used to indicate the appropriate labeling. Include the desired text and capitalization but do not include punctuation.

Subelements

<title> [REQUIRED]

The **<title>** element contains the primary title of the resource. At least one **<titleInfo><title>** element is required.

<subTitle> [RECOMMENDED IF APPLICABLE]

The **<subTitle>** element is used to record information that is secondary to the primary title.

<partNumber> [RECOMMENDED IF APPLICABLE]

The **<partNumber>** element is used for a part or section of a title such as a volume, chapter, or section designation whether explicit or implicit. It may follow the <title> or <subTitle> element.

<partName> [RECOMMENDED IF APPLICABLE]

The **<partName>** element is used for the part or section name of a title such as a volume, chapter, or section title. It may follow the **<title>**, **<subTitle>,** or **<partNumber>** element.

<nonSort> [RECOMMENDED IF APPLICABLE]

The **<nonSort>** element is used for characters such as initial articles that should be ignored at the beginning of a title for indexing purposes.

Examples:

\<mods:titleInfo\>
  \<mods:nonSort\>The\</mods:nonSort\>
  \<mods:title\>history of Providence, R.I.\</mods:title\>
  \<mods:partNumber\>Part 1\</mods:partNumber\>
  \<mods:partName\>Roger Williams' era\</mods:partName\>
\</mods:titleInfo\>

\<mods:titleInfo type="alternative" displayLabel="First line of text"\>
  \<mods:title\>I watch the purple shadows falling\</mods:title\>
\</mods:titleInfo\>

\<mods:titleInfo type="uniform"\>
  \<mods:title\>Times picayune\</mods:title\>
\</mods:titleInfo\>

<name>

MODS Element	Subelements
<name>	<namePart>
	<displayForm>
	<affiliation>
	<role>
	<roleTerm>
	<description>

DEFINITION[4]

"name" is a wrapper element for names associated with the resource.

REQUIREMENTS

There should be at least one **<name>** element recorded to describe the creator of the resource. The type attribute must be used with the **<name>** element and **<namePart>** is a required subelement of **<name>.** This element is repeatable.

USAGE GUIDELINES

Include as many **<name>** elements as are necessary. For image material (photographs, art works, etc.) include the creator of the intellectual content (photographer, artist, engraver, etc.) as well as anyone responsible for capturing the content in a new medium (for an engraving based on an original painting, include both the engraver as well as the artist). For textual materials, including printed music, include all names associated with that work (author, composer, lithographer of cover illustration, lyricist, translator, etc.).

For guidelines on **<name>** used as a subelement of **<subject>,** see the **<subject>** section of this manual.

Attributes:

type [Required]

The type attribute may contain the following values:
personal
corporate
conference

authority [Optional]

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[4] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

Although some projects may require the use of an authority file, recording that file is optional at this point.

Subelements:

\<namePart\> [Required]

The name is always wrapped in a **\<namePart\>** subelement. Although the name may be parsed into separate **\<namePart\>** subelements (given and family), CDI guidelines prescribe including the entire name in one element.

The **\<namePart\>** subelement may contain the following attributes:
date
family
given
termsOfAddress

\<displayForm\> [Do not use]

The \<**displayForm**\> subelement may be used to record the name in direct order or to display a name that is different than that in the **\<name\>** element. At this time the CDI does not use this subelement.

\<affiliation\> [Do not use]

The **\<affiliation\>** subelement may be used to record the name of an organization, institution, etc. with which the entity recorded in \<name\> was associated at the time the resource was created. At this time the CDI does not use this subelement.

\<role\>\<roleTerm\> [Required]

The **\<role\>** subelement is used to record coded or textual information about the role of an entity. CDI guidelines require that if the **\<name\>** element is present it must have a role. If an entity performs a multiple role, do not repeat the name, but record multiple roles under a single name. Take the **\<roleTerm\>** from the "MARC Value List for Relators and Roles"[5]

\<description\> [Do not use]

The **\<description\>** subelement is used to record a textual description for a name. At this time the CDI does not use this subelement.

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[5] http://www.loc.gov/marc/relators/

Examples:

```
<mods:name type="personal">
  <mods:namePart>Abbott, Edwin Abbott</mods:namePart>
  <mods:namePart type="date">1838-1926</mods:namePart>
  <mods:role>
 <mods:roleTerm type="text"
authority="marcrelator">creator</mods:roleTerm>
  </mods:role>
</mods:name>

<mods:name type="corporate">
  <mods:namePart>American Issue Publishing Co.</mods:namePart>
  <mods:role>
 <mods:roleTerm type="text"
authority="marcrelator">publisher</mods:roleTerm>
  </mods:role>
</mods:name>
```

\<typeOfResource\>

MODS Element	Subelements
`<typeOfResource>`	`No subelements`

DEFINITION[6]

"typeOfResource" includes a high-level type that categorizes the material in a general way.

REQUIREMENTS

The use of this element is required under the CDI guidelines. Its content must be taken from a list of values.

USAGE GUIDELINES

Information contained in **\<typeOfResource\>** refers to the original item. In most cases in the CDI, this would be an analog original, but in the case of a born digital resource, it would refer to that.

The **\<typeOfResource\>** is required and is used as a categorizing agent. This element has no subelements, but there its values come from a list.

This element is repeatable.

Attributes:

collection [Recommended if applicable]

Use this attribute (**collection="yes"**) when the resource is a collection (equivalent to MARC leader/07="c").

manuscript [Recommended if applicable]

Use this attribute (**manuscript="yes"**) when the resource is typescript or handwritten.

Values:

The values for **\<typeOfResource\>** are limited to the following:

text
cartographic

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[6] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

notated music
sound recording
sound recording-musical
sound recording-nonmusical
still image
moving image
three dimensional object
software, multimedia
mixed material

Examples:

<mods:typeOfResource collection="yes">text</mods:typeOfResource>
<mods:typeOfResource>still image</mods:typeOfResource>

<genre>

MODS Element	Subelement
<genre>	No subelements

DEFINITION[7]

"genre" contains a category that characterizes a particular style, form, or content, such as artistic, musical, literary composition, etc.

REQUIREMENTS

CDI guidelines require the use of at least one <genre> element. This element is repeatable.

USAGE GUIDELINES

The **<genre>** element is used to characterize the content of the digital resource. The value should be taken from a controlled vocabulary and that vocabulary should be indicated in the authority attribute. A list of controlled vocabularies, "Source codes for genres"[8], is maintained by the Library of Congress and should be consulted for genre terms in a variety of disciplines.

The genre value applied should be as specific as possible. The element may be repeated as necessary.

Attributes:

Authority [Recommended if applicable]

Use this attribute to record the name of the controlled vocabulary consulted for values in the **<genre>** element.

Examples:

Examples of **<genre>** use for a print from the Napoleonic era:

<mods:genre authority="aat">prints</mods:genre>
<mods:genre authority="aat">engravings</mods:genre>

Examples of <genre> use for a piece of sheet music:

<mods:genre authority="aat">sheet music</mods:genre>

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[7] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html
[8] http://www.loc.gov/marc/sourcecode/genre/genresource.html

<mods:genre authority="aat">lithographs</mods:genre>

<originInfo>

MODS Element	Subelements
<originInfo>	<place> <publisher> <dateIssued> <dateCreated> <dateCaptured> <dateValid> <dateModified> <copyrightDate> <dateOther> <edition> <issuance> <frequency>

DEFINITION[9]

"originInfo" is a wrapper element that contains all subelements related to publication and origination information. It includes place of origin or publication, publisher/originator, all dates associated with the resource, and issuance information.

REQUIREMENTS

CDI guidelines require the use of at least one **<originInfo>** element with at least one date subelement in every record, one of which must be designated as the key date. When applicable, **<place>**, **<publisher>**, and **<edition>** are recommended. **<issuance>** and **<frequency>** may be used when appropriate for serial publications.

USAGE GUIDELINES

Information entered in the **<originInfo>** element refers to the original form of the resource, not the digitized form. Metadata about the digitized form of the resource is recorded in the **<techMD>** section of the METS record.

Subelements

<place><placeTerm> [RECOMMENDED IF APPLICABLE]

Use this element to record place names associated with the creation of a resource. In general this element is reserved for published materials, but if the place of origin is known for unpublished materials, it may be recorded here. If the place of origination is unknown, omit this element.

Repeat the place element for recording multiple places.

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[9] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

Attributes:

type [RECOMMENDED IF APPLICABLE]

The values for this attribute are "**text**" and "**code**". Provide, at minimum, the textual value for the place of publication and when available the coded value, indicating the source of the code in the authority attribute.

authority [RECOMMENDED IF APPLICABLE]

Use the value "**marccountry**" for this attribute, consulting the MARC country code list.[10]

<publisher> [RECOMMENDED IF APPLICABLE]

Record the name of the body responsible for the publication of the resource in the **<publisher>** element. This element is normally reserved for published, not manuscript, materials.

Dates [A MINIMUM OF ONE DATE ELEMENT IS REQUIRED]

Although there are seven types of dates in the MODS schema, the CDI recommends using a subset of these types.

<dateIssued> publication or issued date
<dateCreated> date of creation of the resource
<copyrightDate> date in which a resource is copyrighted
<dateOther> generic date element that does not fall into another category but is important to the record.

The following date elements are not used because the information is recorded in the technical metadata portion of the METS record:

<dateCaptured> date on which the resource was digitized or a subsequent snapshot was taken
<dateValid> date in which the content of a resource is valid
<dateModified> date in which a resource is modified or changed

Record each date in a structured form, avoiding using textual data. For uncertain or supplied dates, use the qualifier attribute (see below) rather than using brackets, incomplete dates, question marks, or text such as "ca."

Attributes:

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[10] http://www.loc.gov/marc/countries

The following attributes apply to all MODS date elements:

encoding [recommended]

Record the date using w3cdtf encoding[11]. This allows for recording year, year/month, year/month/day.

point [recommended if applicable]

The **point** attribute is used to indicate start and end dates in a date range. If no point attribute is given, the date is assumed to be a single date.

keyDate [required in one date element]

Every MODS records with a date element must have one date element with the attribute **keyDate="yes"** to assist with indexing, sorting, and display.

qualifier [recommended if applicable]

The qualifier attribute has three values: **approximate**, **inferred**, and **questionable**. Prefer these attributes to inserting brackets, incomplete dates, question marks, or text such as "ca.".

Value definitions:

approximate: this value is used to identify a date that may not be exact, but is approximated, such as "ca. 1972"
inferred: this value is used to identify a date that has not been transcribed directly from a resource such as "[1852]"
questionable: this value is used to identify a questionable date for a resource, such as "1972?"

<edition> [RECOMMENDED IF APPLICABLE]

Use the **<edition>** element to record any edition information for a published resource.

<issuance> [OPTIONAL]

Issuance may be used to designate how a resource is issued. At present, CDI does not require the use of this element but it may be optionally used to record continuing publication for continuing resources. The following are permissible value definitions:

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[11] http://www.w3.org/TR/NOTE-datetime

continuing: use for a resource that is issued over time with no predetermined conclusion.

monographic: use for a resource that is either complete in one part or intended to be complete in a finite number of separate parts.

<frequency> [OPTIONAL]

The **<frequency>** element is used to record publication frequency in textual form. At present, CDI does not require the use of this element.

Examples:

**<mods:originInfo>
<mods:place>
<mods:placeTerm type="code"
authority="marccountry">ohu</mods:placeTerm>
<mods:placeTerm type="text">Westerville, Ohio</mods:placeTerm>
</mods:place>
<mods:publisher>American Issue Publishing Co.</mods:publisher>
<mods:dateIssued encoding="w3cdtf"
keyDate="yes">1934</mods:dateIssued>
</mods:originInfo>**

**<mods:originInfo>
<mods:place>
<mods:placeTerm type="code"
authority="marccountry">riu</mods:placeTerm>
<mods:placeTerm type="text">Providence, RI</mods:placeTerm>
</mods:place>
<mods:publisher>Brown University Dept. of Chemistry</mods:publisher>
<mods:dateIssued encoding="w3cdtf" point="start"
keyDate="yes">1970</mods:dateIssued>
</mods:dateIssued encoding="w3cdtf"
point="end">1979</mods:dateIssued>
<mods:edition>3rd ed.</mods:dateIssued>
</mods:originInfo>**

**<mods:originInfo>
<mods:dateCreated encoding="w3cdtf" keyDate="yes"
qualifier="inferred">1902</mods:dateCreated>
</mods:originInfo>**

<language>

MODS Element	Subelements
`<language>`	`<languageTerm>`

DEFINITION[12]

"language" contains a designation of the language(s) of the content of the resource.

REQUIREMENTS

At least one **<language>** element is required for resources in which language is a primary characteristic. These would include textual materials and audio and video with spoken components. In addition, if an image resource contains a textual component (a caption, inscription, text bubbles, etc.) the language should be coded.

USAGE GUIDELINES

Use as many **<language>** elements as necessary to reflect the content of the resource. Record the language in coded form using the attribute "code."

Subelements:

<languageTerm> [Required]

This subelement contains the language of the content of the resource in coded and/or textual form. CDI guidelines prescribe using the coded form with the attribute type="code."

Attributes:

type [Required]

This attribute may contain the following values:

text: the name of the language of the resource in text form. At present the CDI does not use this value.

code: the three-letter alphabetic code taken from ISO 639-2[13], the codes of which are identical to the MARC Code List for Languages.[14]

authority [Required]

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[12] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html
[13] http://www.loc.gov/standards/iso639-2/
[14] http://www.loc.gov/marc/languages/

When the attribute value is "**code**" the value "iso639-2b" must be recorded in this attribute.

Examples:

\<mods:language\>
\<mods:languageTerm type="code" authority="iso639-2b"\>eng\</languageTerm\>
\</mods:language\>

\<physicalDescription\>

MODS Element	Subelements
\<physicalDescription\>	\<form\> \<reformattingQuality\> \<internetMediaType\> \<extent\> \<note\>

DEFINITION[15]

"physicalDescription" is a wrapper element that contains all subelements relating to physical description information of the resource described.

REQUIREMENTS

At least one **\<physicalDescription\>** element is required in each record, with one subelement, **\<extent\>**

USAGE GUIDELINES

Information recorded in **\<physicalDescription\>** is about the analog resource being described, if the item has been reformatted. Information about the digital resource is recorded in the technical metadata section of the METS record.

Subelements:

\<form\> [OPTIONAL]

The **\<form\>** subelement specifies the physical form or medium of material for a resource and generally only appears in records that have been converted from MARC. CDI guidelines do not require its use.

\<reformattingQuality\> [DO NOT USE]

The **\<reformattingQuality\>** subelement includes an overall assessment of the physical quality of an electronic resource in relation to its intended use. The CDI does not use this subelement.

\<internetMediaType\> [DO NOT USE]

The **\<internetMediaType\>** subelement specifies the identification of the electronic format type, or the data representation of the resource, such as

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[15] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

text/html. The CDI records this information in the technical metadata section of the METS record.

<extent> [REQUIRED]

The **<extent>** subelement includes information about the extent of a resource. For reformatted analog materials, record the extent of the analog item according to a content standard such as AACR2, including measurements for print and image material.

<digitalOrigin> [REQUIRED]

The **<digitalOrigin>** subelement designates whether a digital resource is born digital or reformatted digital.

<note> [OPTIONAL]

The **<note>** subelement contains notes relating to the physical description of the resource. Do not confuse this note with general notes about the resource as a whole.

Examples:

<mods:physicalDescription>
<mods:extent>1 score (ix, 12 p.) ; 28 cm.</mods:extent>
<mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
</mods:physicalDescription>

<mods:physicalDescription>
<mods:form authority="marcform">print</mods:form>
<mods:extent>8 p. ; 23 cm.</mods:extent>
</mods:physicalDescription>

<mods:physicalDescription>
<mods:extent>1 photograph; 17 x 22 cm.</mods:extent>
<mods:physicalDescription>

\<abstract\>

MODS Element	Subelements
`<abstract>`	`No subelements`

DEFINITION[16]

> "abstract" contains a summary of a resource.

REQUIREMENTS

These guidelines recommend the use of one **\<abstract\>** element in every MODS records except when the title serves as an adequate summary of the resource. The element is repeatable.

USAGE GUIDELINES

The **\<abstract\>** element should contain a concise summary of the original resource. Avoid lengthy, subjective summaries. If possible, use specific keywords that will assist in search and retrieval.

Examples:

\<mods:abstract\>Provides statistics on alcohol use, infant mortality and birth defects\</mods:abstract\>

\<mods:abstract\>Napoleon, wearing a butcher's apron and wielding a large knife, chases after a drake. A parody of Francis Drake, the duck, flapping his wings and quacking loudly, runs towards the fortifications of Dover across the water\</mods:abstract\>

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[16] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

\<tableOfContents\>

MODS Element	Subelements
\<tableOfContents	No subelements

DEFINITION[17]

"tableOfContents" contains contents notes for a resource.

REQUIREMENTS

This element may be used when applicable.

USAGE GUIDELINES

The **\<tableOfContents\>** element may be used when a resource is complex and/or its contents cannot be reflected in another element such as the title or abstract. For item level contents, use the **\<relatedItem\>** element with **type="constituent".**

Attributes:

type [OPTIONAL]

At this time, the CDI does not use this attribute.

displayLabel [RECOMMENDED]

Use this attribute to indicate what is contained in the **\<tableOfContents\>.** Examples of its use would be **Partial contents, Chapters, Advertisements**.

xlink:href [RECOMMENDED IF APPLICABLE]

Use this attribute to link to an external table of contents.

Examples:

\<mods:tableOfContents\>Centennial hymn – Lines on an eclipse of the sun\</mods:tableOfContents\>

\<mods:tableOfContents displayLabel="Partial contents"\>Lectures, Spring 1999 – Lectures, Fall 2000 – Lectures, Spring 2000\</mods:tableOfContents\>

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[17] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

<targetAudience>

MODS Element	Subelements
<targetAudience>	No subelements

DEFINITION[18]

"targetAudience" describes the intellectual level of the audience for which the resource is intended.

REQUIREMENTS

These guidelines recommend the use of the **<targetAudience>** element when applicable.

USAGE GUIDELINES

<targetAudience> should be used when there is a specific audience for a resource, for example a resource specifically aimed at a specific subset of a scientific audience. The use of a controlled vocabulary is recommended.

The element should not be used to indicate access or use restrictions. This information is indicated in the **<accessCondition>** element as well as the rights metadata section of the METS record.

Attribute:

authority [Recommended if applicable]

This attribute may be used to indicate the controlled vocabulary used. A list of authorities, "**marctarget**", is maintained by LC.[19]

Examples:

<mods:targetAudience authority="marctarget">specialized</mods:targetAudience>

<mods:targetAudience>statisticians</mods:targetAudience>

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[18] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html
[19] http://www.loc.gov/marc/sourcecode/target/targetsource.html

<note>

MODS Element	Subelements
<note>	No subelements

DEFINITION[20]

"note" contains any note relating to a resource.

REQUIREMENTS

Although the **<note>** element is not required, this element should be used when applicable. Each note should be entered in a separate element.

USAGE GUIDELINES

The **<note>** element is used to record a variety of information, primarily of a general nature, that cannot be recorded in a more specific element. For example, information about the content of a resource should be recorded in the **** element.

Attributes:

type

A list of note types has been compiled on the MODS webpage. Some examples of type values are: **performer**, **venue**, **statementOfResponsibility**, and **provenance**. This attribute should be used when applicable

displayLabel

Use of a **displayLabel** is optional at this time.

Examples:

<mods:note type="provenance"> N.Y., Rockman, '51. Od.</mods:note>

<mods:note type="statementOfResponsibility">words and music by Eubie Blake</mods:note>

<mods:note type="text" displayLabel="Dialogue">Napoleon: "Eh Master Billy, if I could take but a flight over this Brook, I would soon stop your Crowing, I would knock you off that Perch, I swear by Mahomet, the Pope, and all the Idols I have ever Worshiped." </mods:note>

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[20] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

<mods:note>Cover illustration: photograph of Manning Chapel</mods:note>

<subject>

MODS Element	Subelements

`<subject>`	`<topic>`
	`<geographic>`
	`<temporal>`
	`<titleInfo>`
	`<name>`
	`<geographicCode>`
	`<hierarchicalGeographic>`
	`<cartographics>`
	`<occupation>`

DEFINITION[21]

"subject" is a wrapper tag that binds together subelements.

REQUIREMENTS

CDI guidelines require the use of at least one **<subject>** when applicable. Individual projects will have different requirements that are determined by the project manager in conjunction with CDI metadata staff.

The **<subject>** element indicates what the resource is about rather than what it is which is indicated in the **<genre>** element. Subject values are parsed into individual subelements and individual subjects are placed in separate **<subject>** elements.

USAGE GUIDELINES

The decision to do subject analysis in a project is determined by the project manager in consultation with metadata staff. Factors that may affect that decision are the complexity of the collection, the depth of the collection, its subject matter, and staffing. In some instances, subject analysis may not be helpful to the end user. For instance, if every resource in a particular collection would have the same subject, it may be more useful to write detailed abstracts and spend more time on genre analysis.

Subject terms should come from a controlled vocabulary that is identified in the authority attribute. Locally-developed vocabularies may be used, but should be identified as such.

All subject terms should be parsed into separate subject subelements. Do not include punctuation.

Attributes:

authority [Recommended if applicable]

---

[21] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

Record the name of the authoritative list used in this attribute. A list of authorities is maintained at
http://www.loc.gov/marc/sourcecode/subject/subjectsource.html

Subelements

<topic> [Recommended if applicable]

"topic" is used for topical subjects that are not appropriate in the **<geographic>, <temporal>, <titleInfo>,** or **<name>** subelements

Example of <topic> **with LCSH specified in the authority attribute**

<mods:subject authority="lcsh">
<mods:topic>Eclipses</mods:topic>
</mods:subject>

Example of <topic> **used with other** <subject> **subelements**

<mods:subject>
<mods:topic>Temperance</mods:topic>
<mods:geographic>United States</mods:geographic>
</mods:subject>

<geographic> [Recommended if applicable]

"geographic" is used for geographic subject terms that are not parsed as hierarchical geographics. If the geographic name is part of a corporate body, code the body as **<name>**

Example of <geographic> with LCSH specified in the authority attribute

<mods:subject authority="lcsh">
<mods:geographic>Rhode Island</mods:geographic>
</mods:subject>

Example of <geographic> with other <subject> subelements

<mods:subject>
<mods:topic>Popular music</mods:topic>
<mods:geographic>United States</mods:geographic>
</mods:subject>

<temporal> [Recommended if applicable]

"temporal" is used for chronological subject terms or temporal coverage. CDI guidelines recommend expressing it as a controlled subject term.

Example of <temporal> with other <subject> subelements

<mods:subject>
<mods:topic>Rock music</mods:topic>
<mods:geographic>United States</mods:geographic>
<mods:temporal>1961-1970</mods:temporal>
</mods:subject>

<titleInfo> [Recommended if applicable]

"titleInfo" includes a title used as a subject. All of the subelements and attributes used under the top-level element **<titleInfo>** may be used with this subelement. This element frequently appears with a name.

Example of <titleInfo>

<mods:subject>
<mods:name type="personal">
<mods:namePart>Abbott, Edwin Abbott </mods:namePart>
<mods:namePart type="date">1838-1926</mods:namePart>
</mods:name>
<mods:titleInfo>
<mods:title>Flatland</mods:title>
</mods:titleInfo>
</mods:subject>

<name> [Recommended if applicable]

"name" includes a name used as a subject. All of the subelements and attributes used under the top-level element **<name>** may be used with this subelement.

Example of <name>

<mods:subject authority="lcsh">
<mods:name type="corporate">
<mods:namePart>American Issue Publishing Co.</mods:namePart>
</mods:name>
</mods:subject>

<genre> [Recommended if applicable]

"genre" includes a genre or form used as part of a subject string. If describing the genre of a resource as a whole, use the **<genre>** element.

Example of <genre>

<mods:subject>
<mods:geographic>Providence (R.I.)</mods:geographic>
<mods:genre>Maps</mods:genre>
</mods:subject>

<hierarchicalGeographic> [Recommended if applicable]

"hierarchicalGeographic" includes a hierarchical form of place name relating to the content of the resource that is both readable by humans and parsable by machines. This can be used to generate browsable hierarchies even when values are specified to different levels.

Subelements:

The following are valid subelements:

<continent>
<country>
<province>
<region>
<state>
<territory>
<county>
<city>
<island>
<area>

Example of <hierarchicalGeographic>

<mods:subject>
<mods:hierarchicalGeographic>
<mods:country>United States</mods:country>
<mods:state>Rhode Island</mods:state>
<mods:county>Kent</mods:county>
<mods:city>Warwick</mods:city>
</mods:hierarchicalGeographic>
</mods:subject>

<cartographics> [Recommended if applicable]

"cartographics" is a wrapper element that includes cartographic data indicating spatial coverage. Cartographic elements may be bound together with a geographic name within a subject element.

Subelements:

The following subelements are defined:

<coordinates> contains a statement of coordinates. One coordinate indicates a point; two coordinates indicates a line; more than two indicates an n-sided polygon where n=number of coordinates assigned.

<scale> provides a statement of scale.

<projection> provides a statement of projection.

Example of <cartographics>

<mods:subject>
<mods:cartographics>
<mods:coordinates>E72°—E148°/N13°—N18°</mods:coordinates>
<mods:scale>1:22,000,00</mods:scale>
<mods:projection>Conic proj.</mods:projection>
</mods:subject>

<geographicCode> [Recommended if applicable]

"geographicCode" includes a geographic area code associated with a resource. CDI guidelines recommend the usage of this element with an authority attribute.

Attributes:

authority **[Required]**

The authority attribute specifies the authoritative list from which a controlled geographic code came. Values used with this attribute are:

marcgac
marccountry
iso3166

Example of <geographicCode>

<mods:subject>

<mods:geographicCode authority="marcgac">n-us-ri<mods:geographicCode>
</mods:subject>

<occupation> [Optional]

"occupation" includes a term that is descriptive of the occupation reflected in the contents of the described. At this time the CDI does not use this subelement.

Example of <occupation>

<mods:subject>
<mods:occupation>Bartenders</mods:occupation>
</mods:subject>

<classification>

MODS Element	Subelements
classification	No subelements

DEFINITION[22]

"classification" contains the classification number of a resource.

REQUIREMENTS

CDI requirements recommend the use of a classification number when it is available.

USAGE GUIDELINES

The **<classification>** element should contain classification number from the Library of Congress classification scheme. All other numbers, including locally assigned numbers should be placed in the **<identifier>** element.

Attributes:

authority **[RECOMMENDED]**
The **authority** attribute should be used when applicable. The value should come from the source code for classification.[23]

edition **[OPTIONAL]**
This attribute contains a designation of the edition of the classification scheme.

Example

<mods:classification authority="lcc">ML410.B4</mods:classification>

<relatedItem>

MODS Element	Subelements
`<relatedItem>`	`Any MODS element may appear as a subelement`

DEFINITION[24]

"relatedItem" gives information that identifies a related resource.

REQUIREMENTS

CDI guidelines recommend the use of the **<relatedItem>** primarily to provide contextual information for a resource.

USAGE GUIDELINES

The **<relatedItem>** element may be used to describe complex objects such as periodical issues with individual articles, single items from a larger entity, or items in a collection. The basic MODS record should describe the resource being digitized; the **<relatedItem>** and its subelements are secondary to this description.

CDI guidelines recommend the use of the **<relatedItem>** element primarily to provide contextual information for the resource. Appropriate subelements are used to describe host item, series, or constituent parts of the resource.

Attributes:

type [REQUIRED]

"**type**" describes the relationship between the **<relatedItem>** and the resource being described in the MODS record. The following values may be used:

preceding – use this value to record information about a predecessor to the resource.
succeeding – use this value to record information about a successor to the resource.
host – use this value to record information about a host or parent resource. CDI guidelines require a minimum of one **<relatedItem type="host" displayLabel="collection">** element which describes the collection to which the resource belongs.
constituent – use this value to record information concerning a constituent unit of the resource .

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[24] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

series – use this value to record information about the series in which a resource is issued.

otherVersion – use this value to record information concerning another version of the resource. In this instance, "version" refers to a change in intellectual content.

otherFormat – use this value to record information concerning another format in which the resource is issued. Do not record information about digitization in this value; it is recorded in the technical metadata area of the METS record.

isReferencedBy – use this value to record information about citations or references to published bibliographic descriptions, reviews, etc. of the content of the resource.

xlink:href [RECOMMENDED IF APPLICABLE]

"**xlink:href**" is used for an external link.

displayLabel [RECOMMENDED]

"displayLabel" is used when additional text is needed for display. CDI guidelines recommend the use of this attribute.

Subelements

All MODS elements may be used as subelements of **<relatedItem>**

Examples:

<mods:relatedItem type="host" displayLabel="Collection">
<mods:titleInfo>
<mods:title>Imago Brunoniana</mods:title>
</mods:titleInfo>
</mods:relatedItem>

<mods:relatedItem type="constituent">
<mods:titleInfo>
<mods:title>Feet first</mods:title>
</mods:titleInfo>
<mods:name type="personal">
<mods:namePart>James, C. L. R.</mods:namePart>
<mods:role>
<mods:roleTerm type="text">creator</mods:roleTerm>
</mods:role>
</mods:name>
<mods:physicalDescription>
<mods:extent>p. 6</mods:extent>

```
</mods:physicalDescription>
</mods:relatedItem>

<mods:relatedItem type="series">
<mods:titleInfo>
<mods:title>Red, white, and blue series</mods:title>
</mods:titleInfo>
<mods:part>
<mods:detail>
<mods:number>50</mods:number>
<mods:caption>no.</mods:number>
</mods:detail>
</mods:part>
</mods:relatedItem>
```

\<identifier\>

MODS Element	Subelements
\<identifier\>	No subelements

DEFINITION[25]

> "identifier" contains a unique standard number or code that distinctively identifies a resource.

REQUIREMENTS

CDI guidelines recommend the use of at least one **\<identifier\>** element with the type attribute when applicable in each MODS record.

USAGE GUIDELINES

The **\<identifier\>** element is recommended and refers to the resource that is being digitized. There are no subelements but at least one attribute should be used.

<u>Attributes</u>

type [Required]

> When the **\<identifier\>** element is used it must contain the **type** attribute to indicate the type of identifier. The following values may be used:

> **doi** (Digital Objects Identifier)
> **hdl** (Handle)
> **isbn** (International Standard Book Number)
> **ismn** (International Standard Music Number)
> **isrc** (International Standard Recording Code)
> **issn** (International Standard Serials Number)
> **issue number**
> **istc** (International Standard Text Code)
> **lccn** (Library of Congress Control Number)

local
> **matrix number**
> **music plate**

music publisher
> **sici** (Serial Item and Contribution Identifier)
> **stock number**
> **upc** (Universal Product Code)
> **uri** (Uniform Resoruce Identifier)
> **videorecording identifier**

displayLabel [Recommended if applicable]

This attribute should be used to indicate the appropriate display text.

invalid [Recommended if applicable]

This attribute should be used to indicate a canceled or invalid identifier.

Examples

<mods:identifier type="local" displayLabel="ASKB Call no.">FrH1812f-1</mods:identifier>

<mods:identifier type="music plate" displayLabel="Music plate no.">14653 LH</mods:identifier>

\<location\>

MODS Element	Subelements
\<location\>	\<physicalLocation\>
	\<url\>

DEFINITION[26]

"location" identifies the institution or repository holding the resource, or a remote location in form of a URL from which it is available.

REQUIREMENTS

CDI guidelines recommend the use of the **\<location\>** element when applicable.

USAGE GUIDELINES

Information recorded in the **\<location\>** element may be about the physical or digital resource. In general, CDI guidelines recommend using this element for physical location.

Subelements

\<physicalLocation\> **[RECOMMENDED IF APPLICABLE]**

"physicalLocation" identifies the institution or repository holding the resource or from which it is available.

Attributes:

displayLabel [RECOMMENDED]

Use this attribute when appropriate to indicate the appropriate display text.

type [OPTIONAL]

Use this attribute to indicate the kind of location.

authority [OPTIONAL]

Use this attribute if an authoritative list is use for the value in **\<physicalLocation\>.** A listing of values is found at
http://www.loc.gov/marc/sourcecode/organizatin/organizationsource.html

---

[26] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

url [REQUIRED IF APPLICABLE]

"url" contains the Uniform Resource Location for the resource.

<u>Attributes</u>

displayLabel [RECOMMENDED IF APPLICABLE]

Use this attribute to indicate the appropriate display text.

dateLastAccessed [OPTIONAL]

Use this attribute to express the date a digital resource has been accessed remotely.

Examples

<mods:location>
<mods:physicalLocation>Collections Annex</mods:physicalLocation>
</mods:location>

\<accessCondition\>

MODS Element	Subelements
`<accessCondition>`	`No subelement`

DEFINITION[27]

"accessCondition" contains information about restrictions imposed on access to a resource.

REQUIREMENTS

CDI Guidelines do no require the use of this element.

USAGE GUIDELINES

Information about access conditions is recorded in the rights metadata section of the METS record.

---

[27] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

<part>

MODS Element	Subelements
<part>	<detail> <extent> <date> <text>

DEFINITION[28]

"part" is used to provide detailed coding for physical parts of a resource.

REQUIREMENTS

CDI Guidelines recommend that the **<part>** element be used to describe physical (not intellectual) parts of a resource. It is often used in conjunction with **<relatedItem>**

USAGE GUIDELINES

Use the **<part>** element to describe the physical part of a resource. The intellectual part of a resource should be described as subelements under **<title>**

Attributes:

There are no attributes

Subelements:

<detail> [RECOMMENDED IF APPLICABLE]

"detail" contains numbering and type of designation of the part in relation to the host/parent item.

Attributes:

type: the type of part described (e.g., part, volume, issue, chapter, section, paragraph, track)
order: the level of numbering in the host/parent item.

Subelements:

<number> - contains the actual number within the part.
<caption> - contains the caption describing the enumeration within a part.
<title> - contains the title of the part.

`<extent>` [RECOMMENDED IF APPLICABLE]

"extent" contains the measured units making up the part, such as pages, minutes, etc.

Attributes:

unit: suggested values: page, minute

Subelements:

<start> - contains the beginning unit of the extent (e.g., first page)
<end> contains the ending unit of the extent (e.g., last page)
<total> - contains the total number of units.
<list> - contains a textual listing of the units (e.g., pp. 5-9)

`<date>` [RECOMMENDED IF APPLICABLE]

"**date**" contains date information relevant to the part.

Examples:

```
<mods:titleInfo>
<mods:title>Dana</mods:title>
<mods:subtitle>an Irish magazine of independent thought</mods:title>
<mods:partNumber>Vol. 1, no. 4</mods:partNumber>
<mods:titleInfo>

<mods:part>
<mods:detail>
<mods:title>Wayfarers (Poem)</mods:title>
</mods:detail>
<mods:extent unit="pages">
<mods:start>97</mods:start>
<mods:end>98</mods:end>
</mods:extent>
</mods:part>
```

\<extension\>

MODS Element	Subelements
`<extension>`	`No subelements`

DEFINITION[29]

> "extension" is used to provide for additional information not covered by MODS.

REQUIREMENTS

CDI Guidelines recommend the use of the **\<extension\>** element in rare cases, such as to provide linkage to local schema.

USAGE GUIDELINES

At this point, the CDI does not yet use the **\<extension\>** element.

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[29] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

\<recordInfo\>

MODS Element	Subelements
\<recordInfo\>	\<recordContentSource\> \<recordCreationDate\> \<recordChangeDate\> \<recordOrigin\> \<languageOfCataloging\>

DEFINITION[30]

"recordInfo" is a wrapper element that contains subelements relating to information necessary for managing metadata.

REQUIREMENTS

CDI guidelines recommend the use of one **\<recordInfo\>** element in MODS records that have been converted from MARC records.

USAGE GUIDELINES

Information in the **\<recordInfo\>** element provides data concerning the provenance of the metadata. At this time, the CDI does not manually input information into this element but gathers the information when it is provided in the MARC-to-MODS conversion.

Subelements:

\<recordContentSource\> [Recommended if applicable]

"recordContentSource" contains the code or name of the organization that either created or modified the original record.

Attributes:

authority: the name of the authoritative list for a controlled value. The MARC Code List for Organizations may be found at
http://www.loc.gov/marc/sourcecode/organization/organizationsource.html

\<recordCreationDate\> [Recommended if applicable]

"recordCreationDate" contains the date on which the record was first created.

\<recordChangeDate\> [Recommended if applicable]

"recordChangeDate" may serve as a version identifier for the record.

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[30] http://www.loc.gov/standards/mods/v3/mods-userguide-generalapp.html

`<recordIdentifier>` [Recommended if applicable]

"recordIdentifier" contains the system control number assigned by the organization creating, using, or distributing the record.

> **Attributes:**
>
> **source** – contains the code or name of the organization whose system control number is located in the **`<recordIdentifier>`** element.

`<recordOrigin>` [Optional]

"recordOrigin" shows the origin or provenance of the MODS record.

`<languageOfCataloging>` [Recommended if applicable]

"languageOfCataloging" applies to the language of cataloging in a record.

> **Attributes:**
>
> **authority** – this attribute may contain the following values:
>
> > **iso639-2b** [Recommended if applicable]
>
> This bibliographic language code is identical to the MARC Code list for languages.

Example:

\<mods:recordInfo\>
\<mods:recordContentSource\>RBN\</mods:recordContentSource\>
\<mods:recordCreationDate\>981019\</mods:recordCreationDate\>
\<mods:recordIdentifier\>b27168700\</mods:recordIdentifier\>
\</mods:recordInfo\>

Appendix

MODS records for various types of materials

Notes on examples:

The following examples are taken directly from the repository of Brown University's Center for Digital Initiatives. Some of the records have been converted from existing MARC records and some have been created in the Center. The examples are not prescriptive but provide a sample of how the guidelines might be applied for a particular class of materials.

The following types of materials are represented in these examples:

1. Book (MARC-to-MODS conversion)
2. Map (MARC-to-MODS conversion)
3. Photograph (original input)
4. Score (MARC-to-MODS conversion)
5. Art print (original input)
6. MP3 (original input)

Example 1: Book (MARC-to-MODS conversion)

```
<mods:mods ID="trav000005" xmlns:mods="http://www.loc.gov/mods/v3"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
   <mods:titleInfo>
      <mods:title>Life in Brazil; or, A journal of a visit to the lang
      of the cocoa and the palm</mods:title>
   </mods:titleInfo>
   <mods:titleInfo type="alternative" displayLabel="Other Title:">
      <mods:title>journal of a visit to the land of the cocoa and the
      palm</mods:title>
      <mods:nonSort>A</mods:nonSort>
   </mods:titleInfo>
   <mods:name type="personal">
      <mods:namePart>Ewbank, Thomas</mods:namePart>
      <mods:namePart type="date">1792-1870</mods:namePart>
      <mods:role>
         <mods:roleTerm type="text">creator</mods:roleTerm>
      </mods:role>
   </mods:name>
   <mods:typeOfResource>text</mods:typeOfResource>
   <mods:genre authority="aat">biography</mods:genre>
   <mods:originInfo>
      <mods:place>
            <mods:placeTerm type="code"
            authority="marccountry">nyu</mods:placeTerm>
            <mods:placeTerm type="text">New-York</mods:placeTerm>
```

```
    </mods:place>
    <mods:publisher>Harper & Brothers</mods:publisher>
    <mods:dateIssued encoding="w3cdtf"
    keyDate="yes">1856</mods:dateIssued>
  </mods:originInfo>
  <mods:language>
    <mods:languageTerm authority="iso639-2b"
    type="code">eng</mods:languageTerm>
  </mods:language>
  <mods:physicalDescription>
    <mods:extent>xvi, [17]-469 p. illus. 23 cm.</mods:extent>
    <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
  </mods:physicalDescription>
    <mods:note>With an appendix, containing illustrations of ancient
    South American arts ... by Thomas Ewbank ...</mods:note>
  <mods:subject>
    <mods:geographic>Brazil</mods:geographic>
    <mods:topic>Description and travel</mods:topic>
  </mods:subject>
  <mods:subject>
    <mods:geographic>Brazil</mods:geographic>
    <mods:topic>Social life and customs</mods:topic>
  </mods:subject>
  <mods:subject>
    <mods:geographic>Brazil</mods:geographic>
    <mods:topic>Antiquities</mods:topic>
  </mods:subject>
  <mods:relatedItem type="host" displayLabel="Collection:">
    <mods:titleInfo>
        <mods:title>Latin American Travelogues</mods:title>
    </mods:titleInfo>
    <mods:identifier type="COLID">23</mods:identifier>
   <mods:identifier
   type="URI">http://dl.lib.brown.edu/travelogues</mods:identifier>
  </mods:relatedItem>
  <mods:identifier type="local" displayLabel="Hay Call
  no.">F2513.E94</mods:identifier>
  <mods:identifier type="isbn"
  displayLabel="ISBN">0879170077</mods:identifier>
  <mods:identifier type="lccn"
  displayLabel="lccn">02016549</mods:identifier>
  <mods:recordInfo>
    <mods:recordContentSource
    authority="marcorg">DLC</mods:recordContentSource>
    <mods:recordCreationDate
    encoding="marc">720918</mods:recordCreationDate>
    <mods:recordIdentifier
    source="RPB">b20829541</mods:recordIdentifier>
  </mods:recordInfo>
</mods:mods>
```

Example 2: Map (MARC-to-MODS conversion)

```
<mods:mods ID="olio000302" xmlns:mods="http://www.loc.gov/mods/v3"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
   <mods:titleInfo>
      <mods:title>Maps of Kent County, Rhode Island</mods:title>
      <mods:subTitle>Coventry & West Greenwich</mods:subTitle>
   </mods:titleInfo>
   <mods:name type="corporate">
      <mods:namePart>Everts & Richards</mods:namePart>
      <mods:role>
         <mods:roleTerm type="text">creator</mods:roleTerm>
      </mods:role>
   </mods:name>
   <mods:typeOfResource>cartographic</mods:typeOfResource>
   <mods:genre authority="aat">maps</mods:genre>
   <mods:originInfo>
      <mods:place>
         <mods:placeTerm type="code"
      authority="marccountry">pau</mods:placeTerm>
         <mods:placeTerm type="text">Philadelphia</mods:placeTerm>
      </mods:place>
      <mods:publisher>Everts & Richards</mods:publisher>
      <mods:dateIssued encoding="w3cdtf"
      keyDate="yes">1895</mods:dateIssued>
   </mods:originInfo>
   <mods:language>
      <mods:languageTerm authority="iso639-2b"
      type="code">eng</mods:languageTerm>
   </mods:language>
   <mods:physicalDescription>
      <mods:extent>1 sheet : col. ; 56 x 81 cm.</mods:extent>
      <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
   </mods:physicalDescription>
   <mods:note>Title supplied by cataloger</mods:note>
   <mods:note>Relief shown by contours and spot heights</mods:note>
      <mods:note>Shows building outlines and names of
      landowners</mods:note>
      <mods:note>From: New topographical atlas of surveys, southern
      Rhode Island, comprising the counties of Newport, Kent and
      Washington. Philadelphia : Everts & Richards, 1895</mods:note>
   <mods:subject>
      <mods:cartographics>
         <mods:coordinates>W0714800 W0712100 N0414700
         N0413600</mods:coordinates>
      </mods:cartographics>
   </mods:subject>
   <mods:subject>
      <mods:geographicCode authority="marcgac">n-us-
      ri</mods:geographicCode>
   </mods:subject>
   <mods:subject>
      <mods:cartographics>
         <mods:coordinates>(W 71°48 --W 71°47 ; N41°47 --
         N41°36 )</mods:coordinates>
         <mods:scale>Scales differ</mods:scale>
      </mods:cartographics>
   </mods:subject>
   <mods:subject>
      <mods:geographic>Kent County (R.I.)</mods:geographic>
```

```
            <mods:topic>Maps</mods:topic>
        </mods:subject>
        <mods:subject>
            <mods:topic>Real property</mods:topic>
            <mods:geographic>Rhode Island</mods:geographic>
            <mods:geographic>Kent County</mods:geographic>
            <mods:topic>Maps</mods:topic>
        </mods:subject>
        <mods:subject>
            <mods:topic>Landowners</mods:topic>
            <mods:geographic>Rhode Island</mods:geographic>
            <mods:geographic>Kent County</mods:geographic>
            <mods:topic>Maps</mods:topic>
        </mods:subject>
        <mods:relatedItem type="host" displayLabel="Published in:">
            <mods:titleInfo>
                <mods:title>New topographical atlas of surveys, southern
                Rhode Island</mods:title>
            </mods:titleInfo>
            <mods:name type="corporate">
                <mods:namePart>Everts & Richards</mods:namePart>
                <mods:role>
                <mods:roleTerm type="text">creator</mods:roleTerm>
                </mods:role>
            </mods:name>
            <mods:originInfo>
                <mods:place>
                        <mods:placeTerm type="code"
                        authority="marccountry">pau</mods:placeTerm>
                        <mods:placeTerm
                        type="text">Philadelphia</mods:placeTerm>
                </mods:place>
                <mods:publisher>Everts & Richards</mods:publisher>
                <mods:dateIssued encoding="w3cdtf"
                keyDate="yes">1895</mods:dateIssued>
            </mods:originInfo>
        </mods:relatedItem>
        <mods:relatedItem type="host" displayLabel="Collection:">
            <mods:titleInfo>
                <mods:title>Brown Olio</mods:title>
            </mods:titleInfo>
            <mods:identifier type="COLID">18</mods:identifier>
            <mods:identifier
            type="URI">http://dl.lib.brown.edu/olio</mods:identifier>
        </mods:relatedItem>
        <mods:recordInfo>
            <mods:recordContentSource
            authority="marcorg">RBN</mods:recordContentSource>
            <mods:recordCreationDate
            encoding="marc">050927</mods:recordCreationDate>
            <mods:recordIdentifier
            source="RPB">b38358335</mods:recordIdentifier>
        </mods:recordInfo>
</mods:mods>
```

Example 3: Photograph (Original input)

```xml
<mods:mods ID="imbr000042" xmlns:mods="http://www.loc.gov/mods/v3"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
    <mods:titleInfo>
       <mods:title>Bear (Bruno)</mods:title>
    </mods:titleInfo>
    <mods:genre authority="aat">photographs</mods:genre>
    <mods:originInfo>
       <mods:dateIssued encoding="w3cdtf">1930-1940</mods:dateIssued>
       <mods:dateIssued encoding="w3cdtf" point="start" keyDate="yes"
       qualifier="questionable">1930</mods:dateIssued>
       <mods:dateIssued encoding="w3cdtf" point="end"
       qualifier="questionable">1940</mods:dateIssued>
    </mods:originInfo>
    <mods:language>
       <mods:languageTerm authority="iso639-2b"
       type="code">eng</mods:languageTerm>
    </mods:language>
    <mods:physicalDescription>
       <mods:extent>1 photograph; 25.4 x 20.6 cm.</mods:extent>
       <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
    </mods:physicalDescription>
    <mods:abstract>Bruno, the Brown University mascot, being helped off
    of a Mohawk Airlines flight</mods:abstract>
    <mods:relatedItem type="host" displayLabel="Collection:">
       <mods:titleInfo>
          <mods:title>Imago Brunoniana</mods:title>
       </mods:titleInfo>
       <mods:identifier type="COLID">12</mods:identifier>
       <mods:identifier
       type="URI">http://dl.lib.brown.edu/imago_brunoniana</mods:identif
       ier>
    </mods:relatedItem>
</mods:mods>
```

Example 4: Score (MARC-to-MODS conversion)

```xml
<mods:mods ID="wwsm001186" xmlns:mods="http://www.loc.gov/mods/v3"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
    <mods:titleInfo>
       <mods:title>I didn't raise my dog to be a sausage</mods:title>
       <mods:subTitle>comic song</mods:subTitle>
    </mods:titleInfo>
    <mods:titleInfo type="alternative" displayLabel="First line of
    text:">
       <mods:title>Mary Noodle had a poodle</mods:title>
    </mods:titleInfo>
    <mods:titleInfo type="alternative" displayLabel="First line of
    chorus:">
       <mods:title>I'll let you take my dog out for a
ramble</mods:title>
    </mods:titleInfo>
    <mods:name type="personal">
```

```xml
<mods:namePart>Paley, Herman</mods:namePart>
<mods:namePart type="date">1879-1955</mods:namePart>
<mods:role>
   <mods:roleTerm type="text">composer</mods:roleTerm>
</mods:role>
</mods:name>
<mods:name type="personal">
   <mods:namePart>McCarron, Charles R.</mods:namePart>
   <mods:namePart type="date">1891-1919</mods:namePart>
   <mods:role>
      <mods:roleTerm type="text">lyricist</mods:roleTerm>
   </mods:role>
</mods:name>
<mods:name type="personal">
   <mods:namePart>Starmer</mods:namePart>
   <mods:role>
      <mods:roleTerm type="text">illustrator</mods:roleTerm>
   </mods:role>
</mods:name>
<mods:name type="personal">
   <mods:namePart>Jerome H. Remick & Co.</mods:namePart>
   <mods:role>
      <mods:roleTerm type="text">publisher</mods:roleTerm>
   </mods:role>
</mods:name>
<mods:typeOfResource>notated music</mods:typeOfResource>
<mods:genre authority="aat">sheet music</mods:genre>
<mods:originInfo>
   <mods:place>
      <mods:placeTerm type="code"
      authority="marccountry">nyu</mods:placeTerm>
      <mods:placeTerm type="text">New York</mods:placeTerm>
   </mods:place>
   <mods:publisher>J.H. Remick & Co.</mods:publisher>
    <mods:dateIssued encoding="w3cdtf"
   keyDate="yes">1915</mods:dateIssued>
   <mods:edition>Popular ed.</mods:edition>
</mods:originInfo>
<mods:language>
    <mods:languageTerm authority="iso639-2b"
   type="code">eng</mods:languageTerm>
</mods:language>
<mods:physicalDescription>
   <mods:extent>1 score ([2], 3-5, [1] p.) : col. ill. ; 35
   cm.</mods:extent>
   <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
</mods:physicalDescription>
<mods:note>Advertisement for "I'm on my way to Dublin Bay" and other
songs: p. [4]</mods:note>
<mods:note type="statement of responsibility">lyric by Chas.
McCarron ; music by Herman Paley</mods:note>
<mods:note>For voice and piano</mods:note>
<mods:note>Caption title</mods:note>
<mods:note>Cover illustration: dog and sausages, printed in dark
brown ink / Starmer</mods:note>
<mods:subject authority="lcsh">
   <mods:topic>World War, 1914-1918</mods:topic>
   <mods:topic>Songs and music</mods:topic>
```

```
    </mods:subject>
    <mods:subject authority="lcsh">
        <mods:topic>World War, 1914-1918</mods:topic>
        <mods:topic>Caricatures and cartoons</mods:topic>
    </mods:subject>
    <mods:subject>
        <mods:topic>Dogs</mods:topic>
        <mods:topic>War use</mods:topic>
    </mods:subject>
    <mods:subject>
        <mods:topic>Popular music</mods:topic>
        <mods:geographic>United States</mods:geographic>
    </mods:subject>
    <mods:relatedItem type="host" displayLabel="Collection:">
        <mods:titleInfo>
            <mods:title>World War I Sheet Music</mods:title>
        </mods:titleInfo>
        <mods:identifier type="COLID">9</mods:identifier>
        <mods:identifier
        type="URI">http://dl.lib.brown.edu/sheetmusic/ww1</mods:identifie
        r>
    </mods:relatedItem>
    <mods:identifier type="music plate" displayLabel="Music plate
    no.">Jerome H. Remick & Co. (Detroit, Mich.); 37</mods:identifier>
    <mods:recordInfo>
     <mods:recordContentSource
    authority="marcorg">RPB</mods:recordContentSource>
    <mods:recordCreationDate
    encoding="marc">820301</mods:recordCreationDate>
    <mods:recordIdentifier
source="RPB">b17314896</mods:recordIdentifier>
    </mods:recordInfo>
</mods:mods>
```

Example 5: Art print (Original input)

```
<mods:mods ID="askb004683" xmlns:mods="http://www.loc.gov/mods/v3"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
    <mods:titleInfo>
        <mods:title>Battle of Salamanca--July 22nd 1813</mods:title>
    </mods:titleInfo>
    <mods:name type="personal">
        <mods:namePart>Heath, William</mods:namePart>
        <mods:namePart type="date">1795-1840</mods:namePart>
    <mods:role>
        <mods:roleTerm type="text">artist</mods:roleTerm>
    </mods:role>
    </mods:name>
    <mods:typeOfResource>still image</mods:typeOfResource>
    <mods:genre authority="aat">aquatints</mods:genre>
    <mods:originInfo>
        <mods:place>
    <mods:placeTerm type="code"
authority="marccountry">enk</mods:placeTerm>
```

```
        <mods:placeTerm type="text">London</mods:placeTerm>
     </mods:place>
     <mods:publisher>Richard H. Laurie</mods:publisher>
   <mods:dateIssued encoding="w3cdtf"
keyDate="yes">1821</mods:dateIssued>
   </mods:originInfo>
   <mods:language>
<mods:languageTerm authority="iso639-2b"
type="code">eng</mods:languageTerm>
   </mods:language>
   <mods:physicalDescription>
      <mods:extent>1 aquatint; 38.6 x 53.6 cm.</mods:extent>
      <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
   </mods:physicalDescription>
<mods:abstract>One of a pair of color aquatints by and after Heath,
numbered 162; battle scenes, each showing Wellington in left
foreground, directing; Salamanca should be dated 1812 instead of
1813.</mods:abstract>
<mods:note>Oblong folio, one of 2 prints, matted; plate marks;
clean</mods:note>
<mods:note type="provenance">N.Y., Rockman, '48. DRd</mods:note>
<mods:subject>
      <mods:topic>Peninsular War, 1807-1814</mods:topic>
   </mods:subject>
   <mods:subject>
     <mods:name type="personal">
        <mods:namePart>Wellington, Arthur Wellesley</mods:namePart>
        <mods:namePart type="date">1769-1852</mods:namePart>
        <mods:namePart type="termsOfAddress">Duke of</mods:namePart>
     </mods:name>
   </mods:subject>
   <mods:relatedItem type="host" displayLabel="Collection:">
      <mods:titleInfo>
   <mods:title>Prints, Drawings and Watercolors from the Anne S.K.
Brown Military Collection</mods:title>
      </mods:titleInfo>
   <mods:identifier type="COLID">13</mods:identifier>
<mods:identifier
type="URI">http://dl.lib.brown.edu/askb</mods:identifier>
   </mods:relatedItem>
<mods:identifier type="local" displayLabel="ASK Brown Call No.">GB-
B1812-1813f-3a</mods:identifier>
</mods:mods>
```

Example 6: MP3 (Original input)

```
<mods:mods ID="writ000024" xmlns:mods="http://www.loc.gov/mods/v3"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
   <mods:titleInfo>
      <mods:title>Rosmarie Waldrop: Key to the language of
      America</mods:title>
      <mods:subTitle>chapters 1-5</mods:subTitle>
   </mods:titleInfo>
   <mods:name type="personal">
```

```xml
        <mods:namePart>Waldrop, Rosemary</mods:namePart>
        <mods:role>
            <mods:roleTerm type="text">creator</mods:roleTerm>
        </mods:role>
    </mods:name>
    <mods:name type="corporate">
        <mods:namePart>Contemporary Writers Reading
Series</mods:namePart>
        <mods:role>
            <mods:roleTerm type="text">creator</mods:roleTerm>
        </mods:role>
    </mods:name>
    <mods:typeOfResource>sound recording-
nonmusical</mods:typeOfResource>
    <mods:genre authority="aat">dramatic readings</mods:genre>
    <mods:originInfo>
        <mods:dateIssued encoding="w3cdtf" keyDate="yes">1994-
        10</mods:dateIssued>
    </mods:originInfo>
    <mods:language>
         <mods:languageTerm authority="iso639-2b"
        type="code">eng</mods:languageTerm>
    </mods:language>
    <mods:physicalDescription>
        <mods:extent>1 mp3; 8:33</mods:extent>
        <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
    </mods:physicalDescription>
    <mods:abstract>A reading of chapters 1-5 from A key to the language
    of America at the Contemporary Writers Reading Series, Oct.
    1994</mods:abstract>
    <mods:relatedItem type="host" displayLabel="Collection:">
        <mods:titleInfo>
            <mods:title>Writers Online</mods:title>
        </mods:titleInfo>
        <mods:identifier type="COLID">27</mods:identifier>
            <mods:identifiertype="URI">http://dl.lib.brown.edu/writersonli
                n
        e</mods:identifier>
    </mods:relatedItem>
</mods:mods>
```