

# Common Terminology (CT) version 1.1

Updated by International Open Public Digital Library (IOPDL) Inc. on January, 2017

Developed by (Boaz) Sunyoung Jin, supervised by Professor Dubin and supported by Dean Smith of Graduate School of Library of Information Science at University of Illinois at Urbana-Champaign November 17, 2014

The Common Terminology version 1.1 is a bridge terminology of widely used MARC, MODS, DC and QDC that have very different degree of specificity and generality. Since it is a bridge terminology, it allows communities to use their own standards but it provides uniformity to searching achieving interoperability between them. It is to achieve and improve metadata interoperability among different schema standards that have some different degree of generality or specificity.

The Common Terminology (CT) version 1.1 shows very high conversion rates and preservation rates for various specificity and generality degree standards. It is very simple to use and describe metadata records with 12 common terms and more qualifiers. CT is very compatible and friendly with Linked Open Data.

The Common Terminology (CT) version 1.1 is updated. The updated CT version 1.1 changes or omits few unnecessary qualifiers of version 1.1. These changes are based on analyses of CT usage used in conversions from Europeana, DPLA, National Library of Korea, Harvard and MIT metadata records on January 18, 2017 by Boaz Sunyoung Jin. The detail of the changes is the following.

The omitted qualifiers are:

- contributor/role/orderedauthors
- description/authentication
- description/thesis: it is merged into description as a narrow match
- identifier/nationalBibliographyNumber
- rights/ holder: it is merged into rights as a narrow match
- title/uniform

The changed qualifiers are:

- using 'type' instead of 'name' for personal, corporation or meeting of contributor such as contributor type="personal" instead of name="personal."
- title type="key" is changed into type="part", in order to describe partnumber and partname of title.
- relation type="constituent" is changed into type="hasPart", which is more generalized with common terms.

- identifier type="ismn" is changed into type="object", because dpla in json form and europeana in rdf form use 'object' for each record.
- /mods/physicalDescription/reformattingQuality is added into ct:format, because reformatting quality "Indicates an overall assessment of the physical quality of an electronic resource in relation to its intended use (MODS)."

The developed *Common Terminology* is defined as a set of 12 *Common Terms (property)* and 53 *qualifiers (subproperty)* with *CTScheme*. The *Common Terms* are especially *common element names* of widely used metadata schemas (e.g., MARC, MODS, DC & QDC). 12 *Common Terms (properties)* are [contributor](#), [date](#), [description](#), [format](#), [identifier](#), [language](#), [publisher](#), [relation](#), [rights](#), [subject](#), [title](#), and [typeGenre](#). *CTScheme* is a controlled set of values that are specific to Common Terminology, including authorities, and Syntax Encoding Scheme and Vocabulary Encoding Scheme of DCMI. *CTScheme* includes *CTTypeGenre*, *CTFormat*, *CTRelator*, *CTLanguage*, *CTDescription*, *CTIdentifier*, and *CTSubject*.

This document provides definitions and comments for 12 Common Terms (property) and 53 qualifiers (subproperty) with *CTScheme* of MARC, MODS, DC, and QDC. \*Since CT is common terms of MARC, MODS, DC and QDC, CT definitions follow their definitions.

## 12 Common Terms & 53 Qualifiers

<b>Common Term (Property): contributor</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/contributor">http://www.ct.iopdl.org/1.1/contributor</a>
<b>Label</b>	contributor
<b>Definition</b>	The name of a person, organization, or event (conference, meeting, etc.) associated in some way with the resource (MODS). An entity responsible for making contributions to the resource (Contributor of DC) (DCMI). Including creator definition, an entity primarily responsible for making the resource (creator of DC) (DCMI).
<b>Comment</b>	Typically, the name of a Contributor should be used to indicate the entity. The qualifiers that indicate what type or role of contributor name is recorded are personal, corporate, meeting and role. Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): corporate (include university and department)</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/contributor/corporate">http://www.ct.iopdl.org/1.1/contributor/corporate</a>
<b>Label</b>	corporate name
<b>Definition</b>	The name of a company, institution, or other organization (MODS) including a name of university or department.
<b>Comment</b>	Sub-property of <i>contributor</i> common term that indicates the name of a corporate.

	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): meeting</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/contributor/meeting">http://www.ct.iopdl.org/1.1/contributor/meeting</a>
<b>Label</b>	meeting name
<b>Definition</b>	The name of an event (conference, meeting, etc.) associated in some way with the resource (MODS).
<b>Comment</b>	Sub-property of <i>contributor</i> common term that indicates the name of a conference or related type of meeting (MODS). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): personal</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/contributor/personal">http://www.ct.iopdl.org/1.1/contributor/personal</a>
<b>Label</b>	personal name
<b>Definition</b>	The name of a person associated in some way with the resource (MODS).
<b>Comment</b>	Sub-property of <i>contributor</i> common term that indicates the name of a person. Values can be literal or nonliteral (uri).
<b>Example</b>	contributor type="personal"
<b>Qualifier (SubProperty): role</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/contributor/role">http://www.ct.iopdl.org/1.1/contributor/role</a>
<b>Label</b>	role
<b>Definition</b>	Designates the relationship (role) of the entity recorded in name to the resource described in the record (MODS).
<b>Comment</b>	Roles of contributor such as author, creator, .... or other are defined in <a href="#">LC MARC relators</a> in CTScheme. Values can be literal or nonliteral (uri).
<b>Example</b>	role="author" authority="LCMARCreators"
<b>CTScheme: CTRelator</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/CTScheme/CTRelator/">http://www.ct.iopdl.org/1.1/CTScheme/CTRelator/</a>
<b>Label</b>	CTRelator
<b>Definition</b>	A set of authorities, the controlled list from which the value is taken (MODS), to define relator terms for role.
<b>Comment</b>	CT Relators has <a href="#">LC MARC relators</a> for MARC Code List for Relators. role="orderedauthors" is omitted.
<b>References</b>	MARC Code List for Relators: <a href="http://www.loc.gov/marc/relators/relaterm.html">http://www.loc.gov/marc/relators/relaterm.html</a>

<b>Common Term (Property): date</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/date">http://www.ct.iopdl.org/1.1/date</a>
<b>Label</b>	date
<b>Definition</b>	A point or period of time associated with an event in the lifecycle of the resource (DC).
<b>Comment</b>	Typically, date will be associated with the creation or availability of the resource. Recommended best practice for encoding the date value is defined in a profile of ISO 8601 (W3C) and recommend to follow the YYYY-MM-DD format.
<b>Qualifier (SubProperty): available</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/date/available">http://www.ct.iopdl.org/1.1/date/available</a>
<b>Label</b>	available date
<b>Definition</b>	Date (often a range) that the resource will become or did become available (DCMI). A date in which the content of a resource is valid (MODS).
<b>Comment</b>	Available date includes the concept of valid, accepted, and accessioned date.
<b>Qualifier (SubProperty): copyright</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/date/copyright">http://www.ct.iopdl.org/1.1/date/copyright</a>
<b>Label</b>	copyright date
<b>Definition</b>	A date in which a resource is copyrighted (MODS).
<b>Qualifier (SubProperty): dateOther</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/date/dateOther">http://www.ct.iopdl.org/1.1/date/dateOther</a>
<b>Label</b>	other date
<b>Definition</b>	A date that does not fall into another category but is important to record (MODS).
<b>Qualifier (SubProperty): modified</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/date/modified">http://www.ct.iopdl.org/1.1/date/modified</a>
<b>Label</b>	modified date
<b>Definition</b>	The date (often a range) in which a resource is modified or changed (DCMI).
<b>Qualifier (SubProperty): issued</b>	

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/date/issued">http://www.ct.iopdl.org/1.1/date/issued</a>
<b>Label</b>	issued date
<b>Definition</b>	Date of formal issuance (e.g., publication) of the resource (DCMI). The date that the resource was published, released, or issued (MODS).
<b>Comment</b>	Describe an issued date of the described resource including a created date, the date of creation of the resource (MODS).

<b>Common Term (Property): description</b>	
<b>URI</b>	<a href="http://ct.iopdl.org/1.1/description">http://ct.iopdl.org/1.1/description</a>
<b>Label</b>	description
<b>Definition</b>	An account of the resource (DCMI). A term that designates how the resource is issued (MODS).
<b>Comment</b>	Description may include but is not limited to: an abstract, table of contents, reference to a graphical representation of content or a free-text account of the content (DCMI). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): abstract</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/abstract">http://www.ct.iopdl.org/1.1/description/abstract</a>
<b>Label</b>	abstract
<b>Definition</b>	A summary of the content of the resource (MODS).
<b>Comment</b>	Describe abstract including Summary, Subject, Review, Scope and content, Content advice. Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): action</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/action">http://www.ct.iopdl.org/1.1/description/action</a>
<b>Label</b>	action
<b>Definition</b>	Information about processing, reference, and preservation actions (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): audience</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/audience">http://www.ct.iopdl.org/1.1/description/audience</a>

<b>Label</b>	audience
<b>Definition</b>	A description of the intellectual level of the audience for which the resource is intended (MODS).
<b>Comment</b>	Use this element whenever there is a specific audience for a resource (MODS) based on <a href="#">MARC Target Audience Term List</a> of LC MARC target in CTDescription of CTScheme. Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): authentication</b> →omitted	
<b>Qualifier (SubProperty): bibliography</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/bibliography">http://www.ct.iopdl.org/1.1/description/bibliography</a>
<b>Label</b>	bibliography
<b>Definition</b>	Description about bibliography.
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): descriptionOther</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/descriptionOther">http://www.ct.iopdl.org/1.1/description/descriptionOther</a>
<b>Label</b>	description other
<b>Definition</b>	A description of others that do not fall into another category including sponsorship, eprint status, degree, citation of MIT.
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): edition</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/edition">http://www.ct.iopdl.org/1.1/description/edition</a>
<b>Label</b>	edition
<b>Definition</b>	Information identifying the version of the resource (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri)
<b>Qualifier (SubProperty): frequency</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/frequency">http://www.ct.iopdl.org/1.1/description/frequency</a>
<b>Label</b>	frequency
<b>Definition</b>	A statement of publication frequency in a textual form (MODS).
<b>Comment</b>	Use to define the publication pattern of the item (MODS) based on <a href="#">LC MARC Frequency of Issue Term List</a> of LCMARCfrequency in CTDescription of CTScheme. Values can be literal or nonliteral (uri).

**Qualifier (SubProperty):** issuance

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/issuance">http://www.ct.iopdl.org/1.1/description/issuance</a>
<b>Label</b>	issuance
<b>Definition</b>	A term that designates how the resource is issued (MODS).
<b>Comment</b>	Issuance may be used with the following values: <b>monographic, single unit, multipart monograph, continuing, serial, and integrating resource (MODS)</b> . Values can be literal or nonliteral (uri).

**Qualifier (SubProperty):** provenance

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/provenance">http://www.ct.iopdl.org/1.1/description/provenance</a>
<b>Label</b>	provenance
<b>Definition</b>	Information concerning the [...] custodial history of the described materials (MODS) including acquisition, Accrual Method.
<b>Comment</b>	Values can be literal or nonliteral (uri).

**Qualifier (SubProperty):** recordinfo

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/recordinfo">http://www.ct.iopdl.org/1.1/description/recordinfo</a>
<b>Label</b>	recordinfo
<b>Definition</b>	Information about the metadata record (MODS).
<b>Comment</b>	Describe record information of the described resource including latest record transaction, record change, cataloging agency, language, transcribing agency, modifying agency, description conventions. Values can be literal or nonliteral (uri).

**Qualifier (SubProperty):** tableOfContents

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/description/tableOfContents">http://www.ct.iopdl.org/1.1/description/tableOfContents</a>
<b>Label</b>	table of contents
<b>Definition</b>	A description of the contents of a resource (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri).

**Qualifier (SubProperty):** thesis →omitted**CTScheme:** CTDescription

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/CTScheme/CTDescription">http://www.ct.iopdl.org/1.1/CTScheme/CTDescription</a>
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<b>Label</b>	CTDescription
<b>Definition</b>	A set of authorities, the controlled list from which the value is taken (MODS), to define particular descriptions.
<b>Comment</b>	CTDescription has following authorities: <ul style="list-style-type: none"> <li>• LCMARCFrequency (LC, MARC Frequency of Issue Term List)</li> <li>▪ LCMARCTarget (LC, MARC Target Audience Term List)</li> </ul>
<b>References</b>	MARC Frequency of Issue Term List: <a href="http://www.loc.gov/standards/valuelist/marcfrequency.html">http://www.loc.gov/standards/valuelist/marcfrequency.html</a> MARC Target Audience Term List: <a href="http://www.loc.gov/standards/valuelist/marctarget.html">http://www.loc.gov/standards/valuelist/marctarget.html</a>

<b>Common Term (Property): format</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/format">http://www.ct.iopdl.org/1.1/format</a>
<b>Label</b>	format
<b>Definition</b>	A designation of a particular physical presentation of a resource (MODS). The file format, physical medium, or dimensions of the resource (DCMI). The physical or digital manifestation of the resource (DCMI).
<b>Comment</b>	Typically, Format may include the media-type or dimensions of the resource. Format may be used to determine the software, hardware or other equipment needed to display or operate the resource. Examples of dimensions include size and duration. Recommended best practice is to select a value from a controlled vocabulary (for example, the list of Internet Media Types [MIME] defining computer media formats) (DCMI). Values can be literal or nonliteral (uri).  ‘/mods/physicalDescription/reformattingQuality’ can be transferred into it, which is defined as “Indicates an overall assessment of the physical quality of an electronic resource in relation to its intended use (MODS).”
<b>Qualifier (SubProperty): extent</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/format/extent">http://www.ct.iopdl.org/1.1/format/extent</a>
<b>Label</b>	extent
<b>Definition</b>	A statement of the number and specific material of the units of the resource that express physical extent (MODS). The size or duration of the resource (DCMI).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): medium</b>	



<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/format/medium">http://www.ct.iopdl.org/1.1/format/medium</a>
<b>Label</b>	medium
<b>Definition</b>	The material or physical carrier of the resource (DCMI-terms).
<b>Comment</b>	"medium" uses internet media type (IMT) in Vocabulary Encoding Schemes (DC), where IMT is the set of media types specified by the Internet Assigned Numbers Authority on <a href="http://www.iana.org/assignments/media-types">http://www.iana.org/assignments/media-types</a> . It includes media, carrier, performance medium. Values can be literal or nonliteral (uri).
<b>CTScheme: CTFormat</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/CTScheme/CTFormat">http://www.ct.iopdl.org/1.1/CTScheme/CTFormat</a>
<b>Label</b>	CTFormat
<b>Definition</b>	A set of authorities, the controlled list from which the value is taken (MODS), to define format.
<b>Comment</b>	CTFormat has following authorities: <ul style="list-style-type: none"> <li>• authority="LCMARCform" (LC, MARC Form of Item Term List)</li> <li>• authority="LCMARCcategory" (LC, MARC Form Category Term List)</li> <li>• authority="LCgmd" (LC, Genre/Form Code and Term Source Codes)</li> <li>• authority="rfc2046" (NWG, Multipurpose Internet Mail Extensions (MIME) Media Types)</li> </ul>
<b>References</b>	MARC Form of Item Term List: <a href="https://www.loc.gov/standards/valuelist/marcform.html">https://www.loc.gov/standards/valuelist/marcform.html</a> MARC Form Category Term: <a href="http://www.loc.gov/standards/valuelist/marccategory.html">http://www.loc.gov/standards/valuelist/marccategory.html</a> Genre/Form Code and Term Source Codes: <a href="http://www.loc.gov/standards/sourcelist/genre-form.html">http://www.loc.gov/standards/sourcelist/genre-form.html</a> Multipurpose Internet Mail Extensions (MIME) Media Types: <a href="https://www.ietf.org/rfc/rfc2046.txt">https://www.ietf.org/rfc/rfc2046.txt</a>

<b>Common Term (Property): identifier</b>	
<b>URI</b>	<a href="http://ct.iopdl.org/1.1/identifier">http://ct.iopdl.org/1.1/identifier</a>
<b>Label</b>	identifier
<b>Definition</b>	An unambiguous reference to the resource within a given context (DCMI). It includes "location" concept that identifies the institution or repository holding the resource, or a remote location in the form of a URL where it is available (MODS). And it includes "Source" concept, a related resource (database) from which the described resource is derived

	(DCMI), which identifies where the described resource comes from (e.g., MIT, Harvard, Digital Library of America (DPLA), National Library of Korea, and Europeana).
<b>Comment</b>	It may include the Uniform Resource Identifier (URI) including the Uniform Resource Locator (URL), the Digital Object Identifier (DOI), and the International Standard Book Number (ISBN). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): collection</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/collection">http://www.ct.iopdl.org/1.1/identifier/collection</a>
<b>Label</b>	collection
<b>Definition</b>	An aggregation of resources (DCMI).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): controlNumber</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/controlNumber">http://www.ct.iopdl.org/1.1/identifier/controlNumber</a>
<b>Label</b>	control number
<b>Definition</b>	A serial or catalog number.
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): doi</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/doi">http://www.ct.iopdl.org/1.1/identifier/doi</a>
<b>Label</b>	doi
<b>Definition</b>	digital object identifier (DOI)
<b>Comment</b>	Values can be literal or nonliteral (uri)
<b>References</b>	Digital object identifier (DOI): <a href="http://www.doi.org/">http://www.doi.org/</a> .
<b>Qualifier (SubProperty): hdl</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/hdl">http://www.ct.iopdl.org/1.1/identifier/hdl</a>
<b>Label</b>	hdl
<b>Definition</b>	Handle System
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>References</b>	Handle System: <a href="http://hdl.net/">http://hdl.net/</a> .

**Qualifier (SubProperty): identifierOther**

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/identifierOther">http://www.ct.iopdl.org/1.1/identifier/identifierOther</a>
<b>Label</b>	identifier other
<b>Definition</b>	It includes isrc, ean, sici, upc, aleph, govdoc, ismn, or pmid identifiers.
<b>Comment</b>	Values can be literal or nonliteral (uri).

**Qualifier (SubProperty): isbn**

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/isbn">http://www.ct.iopdl.org/1.1/identifier/isbn</a>
<b>Label</b>	isbn
<b>Definition</b>	International Standard Book Number
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>References</b>	International Standard Book Number: <a href="http://www.isbn.org/">http://www.isbn.org/</a> .

**Qualifier (SubProperty): issn**

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/issn">http://www.ct.iopdl.org/1.1/identifier/issn</a>
<b>Label</b>	issn (International Standard Serial Number)
<b>Definition</b>	An 8-digit code used to identify newspapers, journals, magazines and periodicals of all kinds and on all media—print and electronic (issn).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>References</b>	International Standard Serial Number: <a href="http://www.issn.org/">http://www.issn.org/</a> .

**Qualifier (SubProperty): issueNumber**

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/issueNumber">http://www.ct.iopdl.org/1.1/identifier/issueNumber</a>
<b>Label</b>	issue number
<b>Definition</b>	It includes matrix number, music publisher, music plate, or videorecording identifier.
<b>Comment</b>	Values can be literal or nonliteral (uri).

**Qualifier (SubProperty): lccn**

<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/lccn">http://www.ct.iopdl.org/1.1/identifier/lccn</a>
<b>Label</b>	lccn

<b>Definition</b>	Library of Congress Control Number, <a href="#">serially</a> based system of numbering cataloging records in <a href="#">the Library of Congress</a> in the United States (Wikipedia).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty):</b> nationalBibliographyNumber→omitted	
<b>Qualifier (SubProperty):</b> object	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/object">http://www.ct.iopdl.org/1.1/identifier/object</a>
<b>Label</b>	object
<b>Definition</b>	The URL of a suitable source image in the best resolution available on the web site of the data provider from which small images could be generated for use in a portal. This will often be the same URL as given in edm:isShownBy. (Europeana).
<b>Comment</b>	identifier type="ismn" is changed into type="object", because dpla in json form and europeana in rdf form use 'object' for each record. Values can be literal or nonliteral (uri).
<b>References</b>	Definition of the Europeana Data Model v5.2.7 <a href="http://pro.europeana.eu/files/Europeana_Professional/Share_your_data/Technical_requirements/EDM_Documentation/EDM_Definition_v5.2.7_042016.pdf">http://pro.europeana.eu/files/Europeana_Professional/Share_your_data/Technical_requirements/EDM_Documentation/EDM_Definition_v5.2.7_042016.pdf</a> .
<b>Qualifier (SubProperty):</b> source	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/source">http://www.ct.iopdl.org/1.1/identifier/source</a>
<b>Label</b>	source
<b>Definition</b>	A related resource (database) from which the described resource is derived (DCMI). It identifies also where the described resource comes from (e.g., MIT, Harvard, DPLA, National Library of Korea, and Europeana).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty):</b> uri	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/identifier/uri">http://www.ct.iopdl.org/1.1/identifier/uri</a>
<b>Label</b>	uri
<b>Definition</b>	Uniform resource identifier (uri).
<b>Comment</b>	It includes the Uniform Resource Locator (URL).
<b>CTScheme:</b> CTIdentifier	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/CTScheme/CTIdentifier">http://www.ct.iopdl.org/1.1/CTScheme/CTIdentifier</a>

<b>Label</b>	CTIdentifier
<b>Definition</b>	A set of sources which define where the described resource comes from.
<b>Comment</b>	CTDescription includes the sources: MIT, Harvard, DPLA: Digital Library of America, Europeana and National Library of Korea. It may include any organization, institution, or libraries that provide metadata records later. Values can be literal or nonliteral (uri).
<b>References</b>	<ul style="list-style-type: none"> <li>▪ Harvard library resource: <a href="http://library.harvard.edu/">http://library.harvard.edu/</a></li> <li>▪ MIT library resource: <a href="http://libraries.mit.edu/">http://libraries.mit.edu/</a></li> <li>▪ Digital Library of America: <a href="http://dp.la/">http://dp.la/</a></li> <li>▪ National Library of Korea: <a href="http://www.nl.go.kr/english/">http://www.nl.go.kr/english/</a></li> <li>▪ Europeana: <a href="http://www.europeana.eu/portal/en">http://www.europeana.eu/portal/en</a></li> </ul>

<b>Common Term (Property): language</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/language">http://www.ct.iopdl.org/1.1/language</a>
<b>Label</b>	language
<b>Definition</b>	A language of the resource (DCMI). A designation of the language in which the content of a resource is expressed (MODS).
<b>Comment</b>	Values can be string or language codes.
<b>CTScheme: CTLanguage</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/CTScheme/CTlanguage">http://www.ct.iopdl.org/1.1/CTScheme/CTlanguage</a>
<b>Label</b>	CTLanguage
<b>Definition</b>	A set of authorities that are standard language codes to describe languages.
<b>Comment</b>	<p>CTFormat includes the following authorities:</p> <ul style="list-style-type: none"> <li>• iso639-2</li> <li>• iso639-3</li> <li>• rfc1766</li> <li>• rfc3066</li> <li>• rfc4646</li> </ul>

	• MARCCodeListforLanguages
<b>References</b>	iso639-2: <a href="http://www.loc.gov/standards/iso639-2/">http://www.loc.gov/standards/iso639-2/</a> , <a href="http://www.loc.gov/standards/iso639-2/php/code_list.php">http://www.loc.gov/standards/iso639-2/php/code_list.php</a> iso639-3: <a href="http://www-01.sil.org/iso639-3/codes.asp">http://www-01.sil.org/iso639-3/codes.asp</a> rfc1766: <a href="https://www.ietf.org/rfc/rfc1766.txt">https://www.ietf.org/rfc/rfc1766.txt</a> rfc3066: <a href="https://www.ietf.org/rfc/rfc3066.txt">https://www.ietf.org/rfc/rfc3066.txt</a> rfc4646: <a href="http://www.ietf.org/rfc/rfc4646.txt">http://www.ietf.org/rfc/rfc4646.txt</a> MARCCodeListforLanguages: <a href="http://www.loc.gov/marc/languages/language_code.html">http://www.loc.gov/marc/languages/language_code.html</a> .

<b>Common Term (Property): publisher</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/publisher">http://www.ct.iopdl.org/1.1/publisher</a>
<b>Label</b>	publisher
<b>Definition</b>	The name of the entity that published, printed, distributed, released, issued, or produced the resource (MODS). An entity responsible for making the resource available (DCMI).
<b>Comment</b>	Typically, the name of a Publisher should be used to indicate the entity. Examples of a Publisher include a person, an organization, or a service. It includes "place"-Name of a place associated with the issuing, publication, release, distribution, manufacture, production, or origin of a resource (MODS). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): place</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/publisher/place">http://www.ct.iopdl.org/1.1/publisher/place</a>
<b>Label</b>	place
<b>Definition</b>	Name of a place associated with the issuing, publication, release, distribution, manufacture, production, or origin of a resource (MODS).
<b>Comment</b>	It can use authority="iso3166" or "marccountry" of CTSubject in CTScheme. Values can be literal or nonliteral (uri).

<b>Common Term (Property): relation</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation">http://www.ct.iopdl.org/1.1/relation</a>

<b>Label</b>	relation
<b>Definition</b>	Information that identifies other resources related to the one being described (MODS). A related resource (DCMI).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): hasPart</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/hasPart">http://www.ct.iopdl.org/1.1/relation/hasPart</a>
<b>Label</b>	has part
<b>Definition</b>	A related resource that is included either physically or logically in the described resource (DCMI).
<b>Comment</b>	It includes information concerning a constituent unit of the resource. This allows for more specific parsed information than may be used in 'tableOfContents' (MODS). relation type="constituent" is changed into type="hasPart", which is more generalized with common terms. Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): isPartOf</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/isPartOf">http://www.ct.iopdl.org/1.1/relation/isPartOf</a>
<b>Label</b>	is part of
<b>Definition</b>	A related resource in which the described resource is physically or logically included (DCMI). It includes series concept of MODS, information concerning the series in which a resource is issued (MODS).
<b>Comment</b>	It includes Relation IsPartOf (QDC), dc.relation.journal or dc.relation.ispartofseries of MIT. Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): original</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/original">http://www.ct.iopdl.org/1.1/relation/original</a>
<b>Label</b>	original
<b>Definition</b>	Information concerning an original form of the resource (MODS).
<b>Comment</b>	It includes Source concept, a related resource from which the described resource is derived (DCMI), and Relation IsVersionOf of QDC (A related resource of which the described resource is a version, edition, or adaptation (DCMI)). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): otherFormat</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/otherFormat">http://www.ct.iopdl.org/1.1/relation/otherFormat</a>
<b>Label</b>	other format
<b>Definition</b>	Information concerning another format (i.e. change in physical format) of the resource (MODS).

<b>Comment</b>	It includes Relation HasFormat (A related resource that is substantially the same as the pre-existing described resource, but in another format (DCMI), or IsFormatOf (QDC) (A related resource that is substantially the same as the described resource, but in another format (DCMI)). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): otherVersion</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/otherVersion">http://www.ct.iopdl.org/1.1/relation/otherVersion</a>
<b>Label</b>	other version
<b>Definition</b>	Information concerning another version (i.e. change in intellectual content) of the resource (MODS).
<b>Comment</b>	It includes Relation HasVersion (QDC)-A related resource that is a version, edition, or adaptation of the described resource (DCMI), or dc.relation.isversionof- A related resource of which the described resource is a version, edition, or adaptation (DCMI). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): reference</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/reference">http://www.ct.iopdl.org/1.1/relation/reference</a>
<b>Label</b>	reference
<b>Definition</b>	Information concerning a resource cited or referred to in the resource (MODS). A related resource that is referenced, cited, or otherwise pointed to by the described resource (DCMI).
<b>Comment</b>	It includes Relation IsReferencedBy of QDC or MODS (Citations or references to published bibliographic descriptions, reviews, abstracts, or indexes of the content of the resource (MODS)). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): replacement</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/replacement">http://www.ct.iopdl.org/1.1/relation/replacement</a>
<b>Label</b>	replacement
<b>Definition</b>	A related resource that is supplanted, displaced, or superseded by the described resource-Replaces (DCMI).
<b>Comment</b>	It includes preceding-Information concerning a predecessor to the resource (MODS), succeeding-Information concerning a successor to the resource (MODS), or dc.relation.isreplacedby- A related resource that supplants, displaces, or supersedes the described resource (DCMI). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): requirement</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/relation/requirement">http://www.ct.iopdl.org/1.1/relation/requirement</a>
<b>Label</b>	requirement
<b>Definition</b>	A related resource that is required by the described resource to support its function, delivery, or coherence-Requires (DCMI).



<b>Comment</b>	It includes Relation Requires (QDC) and Is Required By (QDC)-A related resource that requires the described resource to support its function, delivery, or coherence (DCMI). Values can be literal or nonliteral (uri).
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<b>Common Term (Property): rights</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/rights">http://www.ct.iopdl.org/1.1/rights</a>
<b>Label</b>	rights
<b>Definition</b>	Information about rights held in and over the resource (DCMI). Information about restrictions imposed on access to a resource (MODS).
<b>Comment</b>	It includes license-A legal document giving official permission to do something with the resource (DCMI), such as dc.identifier.mitlicense of MIT, and dc.description.statemntofresponsibility, copyright, and RightsHolder(QDC)-A person or organization owning or managing rights over the resource (DCMI). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): access</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/rights/access">http://www.ct.iopdl.org/1.1/rights/access</a>
<b>Label</b>	access
<b>Definition</b>	Rights AccessRights (QDC)-Information about who can access the resource or an indication of its security status (DCMI).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): holder→omitted</b>	

<b>Common Term (Property): subject</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/subject">http://www.ct.iopdl.org/1.1/subject</a>
<b>Label</b>	subject

<b>Definition</b>	The topic of the resource (DCMI). A term or phrase representing the primary topic(s) on which a work is focused (MODS). It includes Coverage-The spatial or temporal topic of the resource, the spatial applicability of the resource, or the jurisdiction under which the resource is relevant (DCMI).
<b>Comment</b>	Typically, the subject will be represented using keywords, key phrases, or classification codes. Recommended best practice is to use a controlled vocabulary (MODS). Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): classification</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/subject/classification">http://www.ct.iopdl.org/1.1/subject/classification</a>
<b>Label</b>	classification
<b>Definition</b>	A designation applied to a resource that indicates the subject by applying a formal system of coding and organizing resources according to subject areas (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): spatial</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/subject/spatial">http://www.ct.iopdl.org/1.1/subject/spatial</a>
<b>Label</b>	spatial
<b>Definition</b>	Spatial characteristics of the resource (DCMI). Used for geographic subject terms (MODS).
<b>Comment</b>	It includes coverage and spatial of DC-Spatial topic and spatial applicability may be a named place or a location specified by its geographic coordinates (DCMI), and coordinates, projection, scale, geographic information, or publishing country code of MODS. Recommended best practice is to use a controlled vocabulary such as the Thesaurus of Geographic Names [TGN] (DCMI). A jurisdiction may be a named administrative entity or a geographic place to which the resource applies (DCMI). Values can be literal or nonliteral (uri).
<b>References</b>	[TGN] <a href="http://www.getty.edu/research/tools/vocabulary/tgn/index.html">http://www.getty.edu/research/tools/vocabulary/tgn/index.html</a> .
<b>Qualifier (SubProperty): temporal</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/subject/temporal">http://www.ct.iopdl.org/1.1/subject/temporal</a>
<b>Label</b>	temporal
<b>Definition</b>	Temporal characteristics of the resource (DCMI). Used for chronological subject terms or temporal coverage (MODS).
<b>Comment</b>	Temporal topic may be a named period, date, or date range (DCMI). "temporal" is used for chronological subject terms or temporal coverage. Values can be literal or nonliteral (uri).
<b>CTScheme: CTSubject</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/CTScheme/CTSubject">http://www.ct.iopdl.org/1.1/CTScheme/CTSubject</a>

<b>Label</b>	CTSubject
<b>Definition</b>	A set of authorities for subject headings and classifications.
<b>Comment</b>	<p>CTSubject includes the following authorities:</p> <ul style="list-style-type: none"> <li>• for subject: "lcsch", "lcschac", "mesh", "csh", "nal", "rvm", "tgn", "iso3166"</li> <li>• for "classification: "lcc", "ddc", "udc", "nlm", "sudocs", "candocs", "tgn", and "subjectOther"</li> </ul>
<b>References</b>	<p>For subject:</p> <ul style="list-style-type: none"> <li>▪ lcsch (Library of Congress Subject Headings): <a href="http://id.loc.gov/authorities/subjects.html">http://id.loc.gov/authorities/subjects.html</a></li> <li>▪ lcschac (Library of Congress AC subject headings in Library of Congress subject headings: supplementary vocabularies): <a href="http://id.loc.gov/vocabulary/subjectSchemes/lcschac.html">http://id.loc.gov/vocabulary/subjectSchemes/lcschac.html</a></li> <li>▪ mesh (Medical Subject Headings), the NLM controlled vocabulary thesaurus used for indexing articles for PubMed (MeSH): <a href="http://www.ncbi.nlm.nih.gov/mesh">http://www.ncbi.nlm.nih.gov/mesh</a></li> <li>▪ csh (Canadian Subject Headings (CSH)), a list of subject headings in the English language, using controlled vocabulary, to access and express the subject content of documents on Canada and Canadian topics (CSH): <a href="https://www.baclac.gc.ca/eng/services/canadian-subject-headings/Pages/canadian-subject-headings.aspx">https://www.baclac.gc.ca/eng/services/canadian-subject-headings/Pages/canadian-subject-headings.aspx</a></li> <li>▪ nal (National Agricultural Library subject category codes): <a href="http://agricola.nal.usda.gov/help/categorycodes.html">http://agricola.nal.usda.gov/help/categorycodes.html</a></li> <li>▪ rvm-a partially bilingual encyclopedic thesaurus whose terms are classified according to a specific syntax(RVM): <a href="https://rvmweb.bibl.ulaval.ca/en/a-propos">https://rvmweb.bibl.ulaval.ca/en/a-propos</a></li> <li>▪ tgn (The Getty Thesaurus of Geographic Names): <a href="http://www.getty.edu/research/tools/vocabulary/tgn/">http://www.getty.edu/research/tools/vocabulary/tgn/</a></li> <li>▪ iso3166 (Country Codes - ISO 3166): <a href="http://www.iso.org/iso/country_codes.htm">http://www.iso.org/iso/country_codes.htm</a></li> </ul> <p>For "classification:</p> <ul style="list-style-type: none"> <li>▪ lcc (Library of Congress Classification Outline): <a href="http://www.loc.gov/catdir/cpsol/lcco/">http://www.loc.gov/catdir/cpsol/lcco/</a></li> <li>▪ ddc (Dewey Decimal Classification): <a href="http://www.oclc.org/dewey/resources/summaries.en.html">http://www.oclc.org/dewey/resources/summaries.en.html</a></li> <li>▪ udc (Universal Decimal Classification), one of the most widely used classification schemes for all fields of knowledge(UDC consortium): <a href="http://www.udcc.org">http://www.udcc.org</a></li> <li>▪ nlm (National Library of Medicine classification): <a href="https://www.nlm.nih.gov/class/">https://www.nlm.nih.gov/class/</a></li> <li>▪ sudocs (The Superintendent of Documents Classification System): <a href="http://www.archives.gov/research/alic/reference/admin-history/classification-system.html">http://www.archives.gov/research/alic/reference/admin-history/classification-system.html</a></li> <li>▪ candocs</li> <li>▪ marccountry (MARC Code List for Countries): <a href="https://www.loc.gov/marc/countries/">https://www.loc.gov/marc/countries/</a>.</li> <li>▪ subjectOther (other Classification systems).</li> </ul>

<b>Common Term (Property): title</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/title">http://www.ct.iopdl.org/1.1/title</a>
<b>Label</b>	title
<b>Definition</b>	A word, phrase, character, or group of characters, normally appearing in a resource, that names it or the work contained in it (MODS). A name given to the resource (DCMI).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): abbreviated</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/title/abbreviated">http://www.ct.iopdl.org/1.1/title/abbreviated</a>
<b>Label</b>	abbreviated
<b>Definition</b>	Title as abbreviated for indexing or identification (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): alternative</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/title/alternative">http://www.ct.iopdl.org/1.1/title/alternative</a>
<b>Label</b>	alternative
<b>Definition</b>	Varying form of the title if it contributes to the further identification of the item (MODS). An alternative name for the resource (DCMI).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): part</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/title/part">http://www.ct.iopdl.org/1.1/title/part</a>
<b>Label</b>	part
<b>Definition</b>	A part name given to the resource.
<b>Comment</b>	title type='key' is changed into type='part', in order to describe partnumber and partname of title. Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): subtitle</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/title/subtitle">http://www.ct.iopdl.org/1.1/title/subtitle</a>
<b>Label</b>	subtitle

<b>Definition</b>	A word, phrase, character, or group of characters that contains the remainder of the title information after the title proper (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): translated</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/title/translated">http://www.ct.iopdl.org/1.1/title/translated</a>
<b>Label</b>	translated
<b>Definition</b>	Translation or transcription of the main title (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>Qualifier (SubProperty): uniform→omitted</b>	

<b>Common Term (Property): typeGenre</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/typeGenre">http://www.ct.iopdl.org/1.1/typeGenre</a>
<b>Label</b>	typeGenre
<b>Definition</b>	The nature of the resource (DCMI). A term that specifies the characteristics and general type of content of the resource (MODS).
<b>Comment</b>	It includes genre-A term(s) that designates a category characterizing a particular style, form, or content, such as artistic, musical, literary composition, etc. (MODS). Values can be string or language codes.
<b>Qualifier (SubProperty): genre</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/typeGenre/genre">http://www.ct.iopdl.org/1.1/typeGenre/genre</a>
<b>Label</b>	genre
<b>Definition</b>	A term(s) that designates a category characterizing a particular style, form, or content, such as artistic, musical, literary composition, etc. (MODS).
<b>Comment</b>	Values can be literal or nonliteral (uri).
<b>CTScheme: CTTypeGenre</b>	
<b>URI</b>	<a href="http://www.ct.iopdl.org/1.1/CTScheme/CTTypeGenre">http://www.ct.iopdl.org/1.1/CTScheme/CTTypeGenre</a>

<b>Label</b>	CTypeGenre
<b>Definition</b>	A set of authorities to describe type/genre.
<b>Comment</b>	<p>CTypeGenre includes the following authorities:</p> <ul style="list-style-type: none"> <li>▪ authority="LCMARCtype" for MARC and MODS values of typeOfResource,</li> <li>▪ authority="DCMItype" for DCMItype vocabulary</li> <li>▪ authority="LCMARCgenre," which is list of MARC Genre terms.</li> </ul> <p>The CT uses MARC and MODS type of Resource values, and DCMItype vocabulary (if DCMI uses different type values with typeOfResource of MODS and MARC), to accept all values of MARC, MODS, and DC.</p>
<b>References</b>	<ul style="list-style-type: none"> <li>▪ LCMARCtype (MARC Code List for Content Types): <a href="http://www.loc.gov/standards/valuelist/marccontent.html">http://www.loc.gov/standards/valuelist/marccontent.html</a></li> <li>▪ DCMI Type Vocabulary: <a href="http://dublincore.org/documents/dcmi-type-vocabulary/">http://dublincore.org/documents/dcmi-type-vocabulary/</a></li> <li>▪ MARC Genre Term List: <a href="http://www.loc.gov/standards/valuelist/marcgt.html">http://www.loc.gov/standards/valuelist/marcgt.html</a> .</li> </ul>

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