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OER Metadata Rosetta Stone

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OER Discovery Working Group

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Introduction

The OER Discovery Working Group is a newly formed collaborative effort among OER advocates, metadata and cataloging librarians, and relevant specialists in the U.S. and Canada. It was convened by the Scholarly Publishing and Academic Resources Coalition (SPARC).

Great strides have been made in the creation and adoption of open educational resources. However, discovery remains a pain point among advocates and adopting instructors. SPARC's intent in convening the OER Discovery Working Group was to catalyze a conversation among leaders and practitioners concerned with how to make OER more discoverable, to support the community in developing best practices, and outline potential next steps for how metadata standards could contribute to sustainable discovery infrastructure.

The OER Application Profile document, which uses core terms from multiple metadata vocabularies to meet the specific context and requirements for application to OER, used the [Digital Public Library of America \(DPLA\) Metadata Application Profile, version 5.0](#), as a model. The group has also taken initiative to test implementation of the profile to typical workflows in libraries by finding records to test the application profile. It is our hope that this document will support best practices for OER repositories and institutions to leverage existing library expertise and networks.

This is our first iteration of the OER Metadata Rosetta Stone. Please leave comments on this [Google Document](#) to offer feedback for future versions.

Scope of This Documentation

This document is the technical specification of core and contextual elements for Open Educational Resources using existing schema to create a Metadata Application Profile. It provides a list of relevant classes and properties used in OER metadata records at the institutional and repository level.

Other Documentation Available

[Project Folder](#) compiled by Bobby Botham, University of Minnesota Mankato (CC-BY)

- Mappings to Learning Object Metadata
- Recommendations for Core Elements
- Annotated Bibliography

How to Use this Guide

Each Class of the OER Metadata Rosetta Stone is provided as a table below. Columns indicate:

Label: a human-readable label for the property

Usage: description of how the property should be used

Vocab/Syntax Schemas (MARC21, Dublin Core, Schema.org): a controlled vocabulary to be applied to the value of the property or a syntax for the value of the property

- Any of the elements may have nested lists and may include URIs when appropriate

Reference: a link to the specific reference for the property or notice of a property created by the group

Requirement: whether the property is required, recommended or optional

- Required - This element must be contained within the new metadata record.
- Recommended - This element must be supplied to the new metadata record when available from the original object; the new metadata record is still considered complete in absence of this element.
- Optional - This element is recognized as useful, but the new metadata record is still considered complete in absence of this element.

Core Elements

Label	MARC21, based off MHCC's OER template	Dublin Core	Schema.org (LRMI)	Usage	Reference	Requirement
Material type	5XX	NA	learningResourceType	The predominant type or kind characterizing the learning resource. For example, 'full course', 'lecture', or 'ancillary material'	https://wiki.creativecommons.org/wiki/LRMI/Properties/1.1	Required
Media Format	380, 655	NA	genre	nature or genre of the resource; newspaper, textbook, video presentation, . not strictly related to the digital object, but the content of the object	https://docs.google.com/spreadsheets/d/1CWrzGgtl7np6lj8Om-P2R5w9no730hmVmL-YQ8t-sM/edit#gid=0 https://www.oercommons.org/advanced-search	Required
File Type	347	dcterms:format	encodingFormat	Media type typically expressed using a MIME format (see IANA site and MDN reference)	https://schema.org/CreativeWork https://schema.org/encodingFormat	Recommended

Author/Creator	1XX 7XX	dc:creator	creator	The individual credited with the creation of the resource.	https://wiki.creativecommons.org/wiki/LRMI/Properties/1.1	Required
Contributor	1XX 7XX	dc:contributor	contributor	any agent, personal or corporate, contributing to the creation of the resource, but not considered the primary creator(s)	https://docs.google.com/spreadsheets/d/1CWrzGgtl7np6lj8Om-P2R5w9no730hmVml-YQ8t-sM/edit#gid=0	Recommended
Editor	7XX	NA	editor	Any agent having managerial responsibility related to the writing, compilation, and revision of content for a publication	Defined by group	Recommended
Date	264 \$c	dcterms:date	date	The date on which the resource was created. Recommended practice is to use the ISO 8601-1.	https://wiki.creativecommons.org/wiki/LRMI/Properties/1.1	Required
Language	LDR 041 546	dcterms:language	language	The primary language of the resource. Recommended practice is to use a non-literal value representing a language from a controlled vocabulary such as ISO 639-2 or ISO 639-3.	https://wiki.creativecommons.org/wiki/LRMI/Properties/1.1	Required
Publisher	264 \$b	dcterms:publisher	organization	The organization credited with publishing the resource.	https://wiki.creativecommons.org/wiki/LRMI/Properties/1.1	Optional
Provider	040	NA	provider	Source institution providing metadata and collection	Defined by group	Optional

Rights Holder	264 \$b	dcterms:rightsHolder	copyrightHolder	Agent, personal or corporate, that holds the rights to the resource	https://docs.google.com/spreadsheets/d/1CWrzGgttI7np6lj8Om-P2R5w9no730hmVmL-YQ8t-sM/edit#gid=0	Required
Title	245 \$a, \$b	dcterms:title	title	The title of the resource.	https://wiki.creativecommons.org/wiki/LRMI/Properties/1.1	Required
Alternate Title	246 \$a, \$b	dcterms:alternative		An alias for the item.	https://schema.org/CreativeWork	Optional
Edition Statement	250	dcterms:hasVersion	version	Example/instance/realization/derivation of the concept of this work. eg. The paperback edition, first edition, or eBook.	https://schema.org/CreativeWork	Optional
Subject	6XX	dcterms:subject	subjectOf	topic related to the content of the resource. Can include geographic or temporal dimensions. Should not duplicate the discipline of study captured in oer:discipline	https://docs.google.com/spreadsheets/d/1CWrzGgttI7np6lj8Om-P2R5w9no730hmVmL-YQ8t-sM/edit#gid=0	Required
Description	520	dcterms:description	description	brief description of the content of the resource, not including a table of contents	https://docs.google.com/spreadsheets/d/1CWrzGgttI7np6lj8Om-P2R5w9no730hmVmL-YQ8t-sM/edit#gid=0	Required

Peer Review	500	NA	review	Is the item peer reviewed? (boolean value) Using exact note "Refereed/Peer-Reviewed" may create display icon in some ILS's	Defined by group	Recommended
License Title	540 \$f	dcterms:license	license	The proper name of the license or rights statement	Defined by group	Required
License URL	540 \$u	dcterms:license	useRightsUrl	The URL where the owner specifies permissions for using the resource.	https://wiki.creativecommons.org/wiki/LRMI/Properties/1.1	Required
License Description	540 \$a	dcterms:license	usageInfo	Additional information for non-standard rights description		Required
Relationship	76X-78X	dc:relation		Resources with a relationship to the resource described (Examples: translations, revisions, other formats, etc.)	https://docs.google.com/spreadsheets/d/1CWrzGgttI7np6lj8Om-P2R5w9no730hmVmL-YQ8t-sM/edit#gid=0	Optional
Identifier	010 020 035 050-099 856 Many more	dcterms:identifier	identifier	unique identifier for the resource (Examples: ISBN, ISSN, Call Number, File name, Manuscript number, Institutional Repository #, doi)	https://docs.google.com/spreadsheets/d/1CWrzGgttI7np6lj8Om-P2R5w9no730hmVmL-YQ8t-sM/edit#gid=0	Recommended
Place	264 \$a	dcterms:spatial		Geographic location of creation		Optional

Education Level	Leader (Audn); 521 (any of the first indicators could work)	dcterms:educationLevel	educationalLevel; typicalAgeRange; intendedEndUserRole	Defines a level or stage within an education system for which the resource being described is intended or useful. As an example, mimic the oercommons Education Level values: https://www.oercommons.org	Defined by group	Recommended
Audience	521 (blank first indicator)	dc:audience	Audience	A class of entity for whom the resource is intended or useful.	https://guidelines.openaire.eu/en/latest/literature/field_audience.html	Recommended
Provenance	536 (for funding info)	dcterms:provenance		Purpose of creation, including grant sponsorship	Defined by group	Optional
Course Title	500	NA		Course name associated with the intended course	Defined by group	Recommended
Course Identifier	500	NA	courseCode	Course code associated with the intended course or course mapping (e.g. CHEM 200)	Defined by group	Recommended

File Size	347 \$c	dcterms:extent	fileSize	A measure of how much data a computer file contains or, alternately, how much storage it consumes.		Recommended
Table of Contents	505	dcterms:tableOfContents		table of contents of a resource	https://docs.google.com/spreadsheets/d/1CWrzGgttI7np6lj8Om-P2R5w9no730hmVmL-YQ8t-sM/edit#gid=0	Recommended
Page Count	300 \$a	dcterms:extent	materialExtent	Number of pages that a resource has		Optional
Duration	300 \$a	dcterms:extent	duration	Time duration of audio/video resource		Recommended
Is Ancillary	7XX	Dcterms: isPartOf		What is the resource an ancillary to?		Optional
Has Ancillaries	7XX	Dcterms: hasPart		Does the item have ancillary resources? Are the resource not standalone (Example: test bank)		Optional

Acknowledgments

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Thema
Collective Access
LRMI
OASIS
Mason Metafinder
OER Schema
Open Textbook Library MARC records
MHCC OER MARC21
MARC21 for Bibliographic Data (LOC)