

# Metadaten für OER im deutschsprachigen Raum

**OER im  
deutschsprachigen Raum:  
Produzenten**

lehrer-online  
Unterrichten mit digitalen Medien



  
*Serlo*



iMooX



**se** selbstgesteuert  
entwickelnder  
**gu** geschichts-  
unterricht

SWITCHtube  
Share your academic videos.

# OERde: Produzenten

4

- Überschaubare Anzahl von Produzenten
- Unterschiedlichste Medientypen: Aufgaben, Tutorials, Kursunterlagen, Unterrichtseinheiten & Arbeitsblätter, MOOCs, Videoaufzeichnungen etc.
- Bisher Fokus auf Schulbereich, wenig Aktivität im Hochschulbereich
- Bibliotheken treten nicht in Erscheinung

**(O)ER im  
deutschsprachigen Raum:  
Metadaten**

# AGMuD

*AG Mediendistribution und  
Dokumentation*



## DIPF

Bildungsforschung  
und Bildungsinformation



**educa.ch** | SFIB – DIE SCHWEIZERISCHE FACHSTELLE  
FÜR INFORMATIONSTECHNOLOGIEN  
IM BILDUNGSWESEN

# (O)ERde: Datenaustausch & Aggregation

7

- Akteure im Kontext Schulbildungsmedien:
  - AG Medien und Distribution / FWU
  - Elixier / Deutsches Institut für Internationale Pädagogische Forschung (DIPF)
  - SFIB (Schweiz)
- Akteure aus dem Hochschulkontext:
  - DINI AG KIM
  - ...?...

# (O)ER-Metadatenstandards

8

- Metadaten schemata:
  - Erweitertes Austauschformat (EAF)
  - LOM-Applikationsprofile: LOM-CH, LOM-EAF
- Klassifikationen:
  - EAF-Systematik
  - Elixier-Systematik
- Andere: ISO/IEC 19788 „Metadata for learning resources“

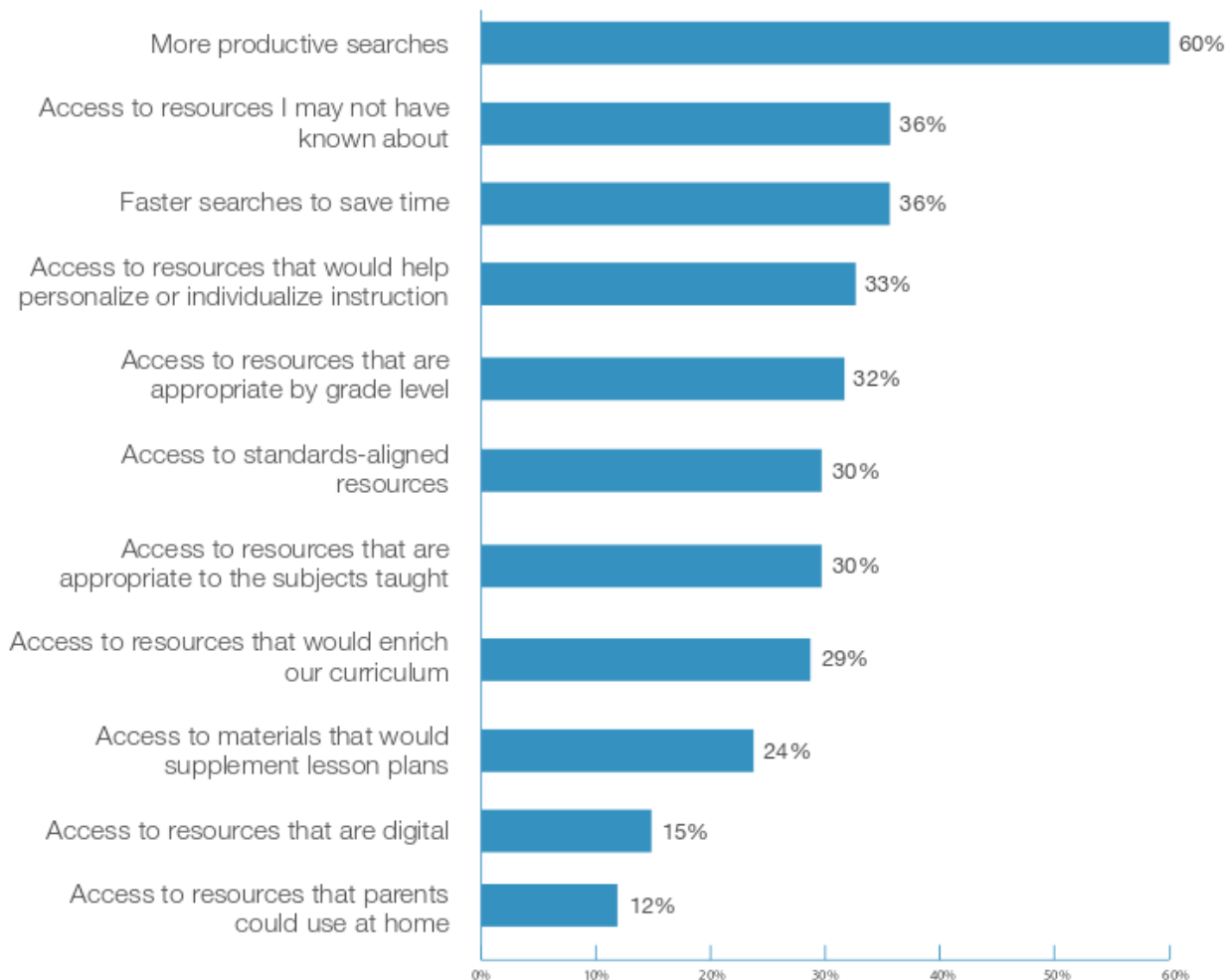


**Warum überhaupt  
Metadaten?**

Damit **relevante** OER  
**einfach** und  
**schnell**  
gefunden werden.

### 3. If educational resources were described with metadata in a way that enabled more precise searching and filtering, what do you see as the major advantages? Please check the 3 most important for you.

Advantages of Precise Searching and Filtering



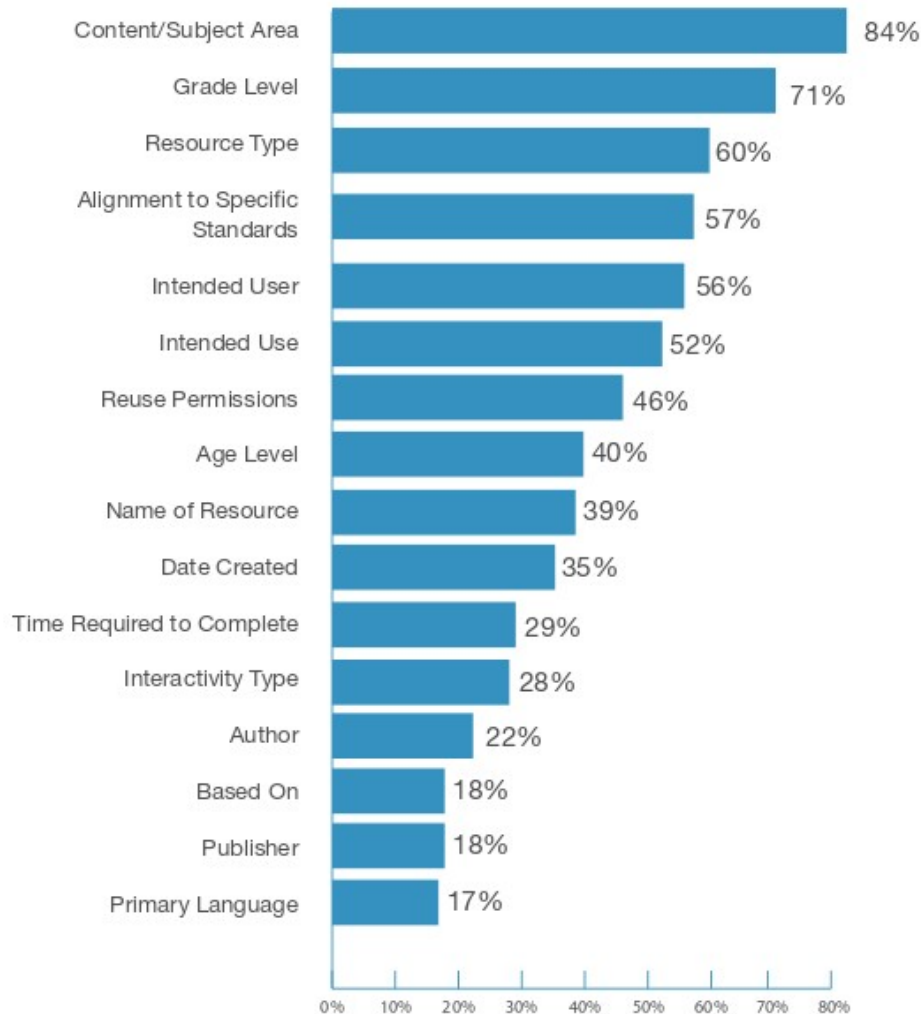
# Welche Metadaten?

12

- Inhaltsserschließung (Schlagwörter)
- Lernstufe
- Ressourcentyp
- Lehrplanbezug
- ...

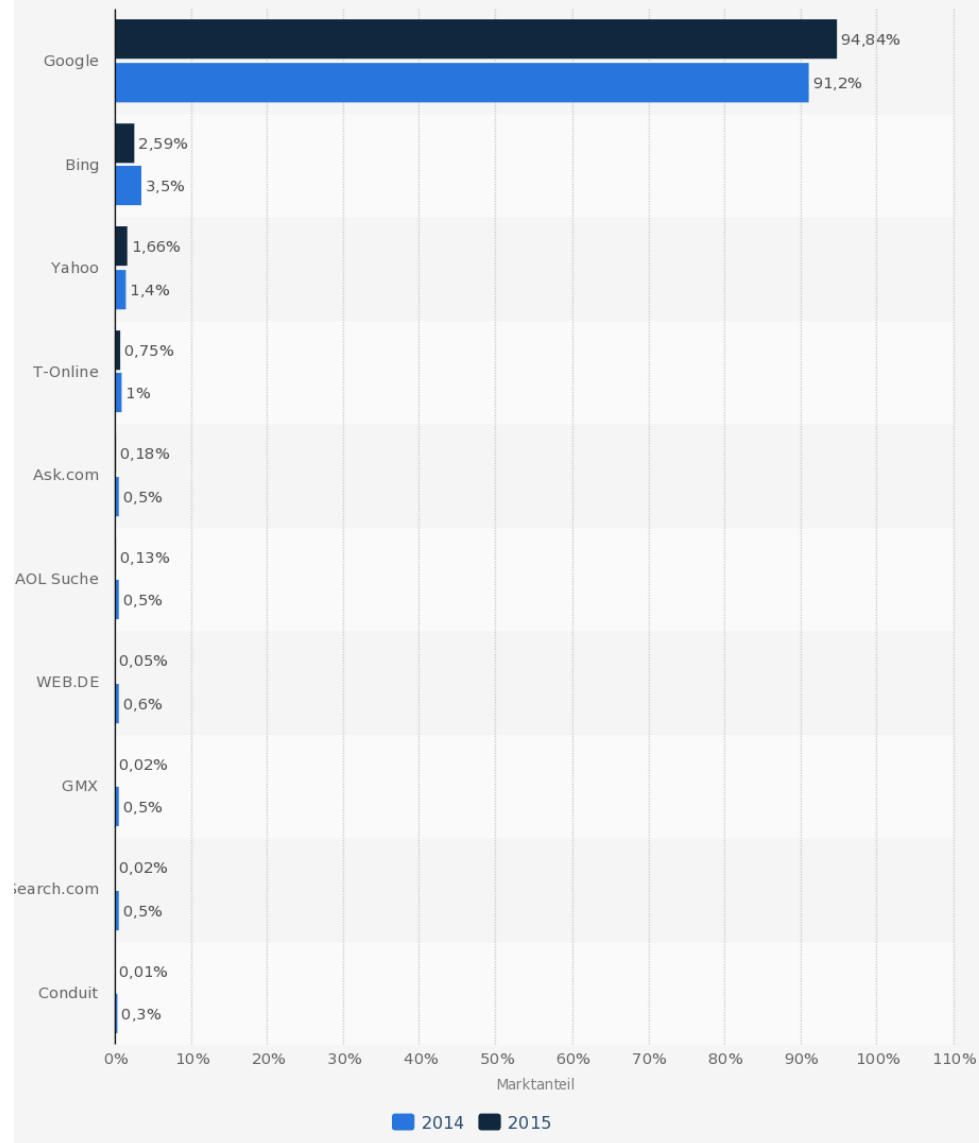
**5. What search criteria (in your opinion) would be most helpful in searching for educational resources online? Check all that apply.**

**Most Helpful Online Search Criteria**



**Wo wird gesucht?**

## Suchmaschinenverteilung in Deutschland im Jahr 2015 (sowie Vorjahresvergleich)



Quelle: Suchmaschinenverteilung in Deutschland im Jahr 2015 (sowie Vorjahresvergleich). In: Statista - Das Statistik-Portal.  
Zugriff am 27. März 2015, von <http://de.statista.com/statistik/daten/studie/167841/umfrage/marktanteile-ausgewaehlter-suchmaschinen-in-deutschland/>

# Aber:

16

- OER-Metadaten sind meist nicht in Google.
- Google versteht kein LOM, LOM-EAF, LOM-CH, Elixier etc.



schema.org:

- Ein allgemeines Vokabular zur Beschreibung von Dingen im Web
- Gemeinsame Anstrengung von Google, Yahoo!, Bing & Yandex
- Start: Juni 2011

## Thing > CreativeWork

The most generic kind of creative work, including books, movies, photographs, software programs, etc.

Property	Expected Type	Description
<b>Properties from <a href="#">CreativeWork</a></b>		
<a href="#">about</a>	<a href="#">Thing</a>	The subject matter of the content.
<a href="#">accessibilityAPI</a>	Text	Indicates that the resource is compatible with the referenced accessibility API ( <a href="#">WebSchemas wiki lists possible values</a> ).
<a href="#">accessibilityControl</a>	Text	Identifies input methods that are sufficient to fully control the described resource ( <a href="#">WebSchemas wiki lists possible values</a> ).
<a href="#">accessibilityFeature</a>	Text	Content features of the resource, such as accessible media, alternatives and supported enhancements for accessibility ( <a href="#">WebSchemas wiki lists possible values</a> ).
<a href="#">accessibilityHazard</a>	Text	A characteristic of the described resource that is physiologically dangerous to some users. Related to WCAG 2.0 guideline 2.3. ( <a href="#">WebSchemas wiki lists possible values</a> )
<a href="#">accountablePerson</a>	Person	Specifies the Person that is legally accountable for the CreativeWork.
<a href="#">aggregateRating</a>	<a href="#">AggregateRating</a>	The overall rating, based on a collection of reviews or ratings, of the item.
<a href="#">alternativeHeadline</a>	Text	A secondary title of the CreativeWork.
<a href="#">associatedMedia</a>	<a href="#">MediaObject</a>	A media object that encodes this CreativeWork. This property is a synonym for encoding.
<a href="#">audience</a>	<a href="#">Audience</a>	The intended audience of the item, i.e. the group for whom the item was created.
<a href="#">audio</a>	<a href="#">AudioObject</a>	An embedded audio object.
<a href="#">author</a>	<a href="#">Person</a> or <a href="#">Organization</a>	The author of this content. Please note that author is special in that HTML 5 provides a special mechanism for indicating authorship via the rel tag. That is equivalent to this and may be used interchangeably.
<a href="#">award</a>	Text	An award won by this person or for this creative work. Supersedes <a href="#">awards</a> .
<a href="#">citation</a>	<a href="#">CreativeWork</a> or Text	A citation or reference to another creative work, such as another publication, web page, scholarly article, etc.
<a href="#">comment</a>	<a href="#">Comment</a> or <a href="#">UserComments</a>	Comments, typically from users, on this CreativeWork.
<a href="#">commentCount</a>	Integer	The number of comments this CreativeWork (e.g. Article, Question or Answer) has received. This is most applicable to works published in Web sites with commenting system; additional comments may exist elsewhere.
<a href="#">contentLocation</a>	Place	The location of the content.
<a href="#">contentRating</a>	Text	Official rating of a piece of content—for example, 'MPAA PG-13'.
<a href="#">contributor</a>	<a href="#">Person</a> or <a href="#">Organization</a>	A secondary contributor to the CreativeWork.
	<a href="#">Person</a> or	The party holding the legal copyright to the CreativeWork

# LRMI (Learning Resource Metadata Initiative)

19

- Angeregt 2011 vom schema.org-Start
- Initiative der Association of Educational Publishers & Creative Commons
- Ziel: Integration in schema.org
- Seit 2014 ist LRMI ein Dublin-Core-Standard

**LRMI-Spezifikation**  
**vs.**  
**LRMI-in-RDF**  
**vs.**  
**schema.org**

## The Specification

version 1.1

The LRMI specification is a collection of properties to describe educational resources. It builds on the extensive vocabulary provided by [Schema.org](#). Predominantly it uses properties of resources of type [schema.org/CreativeWork](#) that were proposed to Schema.org by the LRMI to describe the educational characteristics of learning resources. For some of these properties it uses the LRMI-created types [schema.org/AlignmentObject](#) and [schema.org/EducationalAudience](#).

Version 1.1 of the LRMI specification has been accepted into Schema.org with the exception of `useRightsUrl` [[see discussion here](#)]. Subsequently Schema.org adopted a property called `license` which encompasses the same function as `useRightsUrl`.

The LRMI project looked for inspiration, ideas, and learnings from other projects with similar visions in furtherance of its goal of interoperating with other specifications. As much as possible, contributors on those works were invited to participate in LRMI specification development. We wish to acknowledge and thank these initiatives for informing our work:

- [IEEE Learning Object Metadata](#)
- [Dublin Core Metadata Initiative](#)
- [IMS Global Learning Consortium Learning Resource Metadata](#)
- [ARIADNE Educational Metadata Recommendation](#)
- [SCORM](#)
- [ISO/IEC Metadata for Learning Resources](#)

Table 1. LRMI Additions to Schema.org/CreativeWork

Property	Expected Type	Description
<b>educationalAlignment</b>	<a href="#">schema.org/AlignmentObject</a>	An alignment to an established educational framework.
<b>educationalUse</b>	<a href="#">schema.org/Text</a>	The purpose of the work in the context of education. <ul style="list-style-type: none"><li>• Ex: "assignment"</li><li>• Ex: "group work"</li></ul>
<b>timeRequired</b>	<a href="#">schema.org/Duration</a> ( <a href="#">ISO 8601</a> )	Approximate or typical time it takes to work with or through this learning resource for the typical intended target audience. <ul style="list-style-type: none"><li>• Ex: "PT30M"</li><li>• Ex: "PT1H25M"</li></ul>
<b>typicalAgeRange</b>	<a href="#">schema.org/Text</a>	The typical range of ages the content's intended end user. <ul style="list-style-type: none"><li>• Ex: "7-9"</li><li>• Ex: "18-"</li></ul>
<b>interactivityType</b>	<a href="#">schema.org/Text</a>	The predominant mode of learning supported by the learning resource. Acceptable values are active, expositive, or mixed. <ul style="list-style-type: none"><li>• Ex: "active"</li><li>• Ex: "mixed"</li></ul>
<b>learningResourceType</b>	<a href="#">schema.org/Text</a>	The predominant type or kind characterizing the learning resource. <ul style="list-style-type: none"><li>• Ex: "presentation"</li><li>• Ex: "handout"</li></ul>
<b>useRightsUrl</b>	<a href="#">schema.org/URL</a>	The URL where the owner specifies permissions for using the resource. <ul style="list-style-type: none"><li>• Ex: "<a href="http://creativecommons.org/licenses/by/3.0/">http://creativecommons.org/licenses/by/3.0/</a>"</li><li>• Ex: "<a href="http://publisher.com/content-use-description">http://publisher.com/content-use-description</a>"</li></ul>
<b>isBasedOnUrl</b>	<a href="#">schema.org/URL</a>	A resource that was used in the creation of this resource. This term can be repeated for multiple sources.

**A note on `useRightsUrl`:** this property was not adopted by schema.org. Subsequently schema.org adopted a property called `license` which encompasses the same functions as `useRightsUrl` (see below). The `license` property is likely to be more widely understood by consumers of schema.org mark-up than the LRMI `useRightsUrl` property.

Table 2. Other important characteristics of learning resources that are covered by Schema.org properties of CreativeWork

Property	Expected Type	Description
<b>name</b>	<a href="#">schema.org/Text</a>	The title of the resource.
<b>about</b>	<a href="#">schema.org/Thing</a>	The subject of the content.
<b>dateCreated</b>	<a href="#">schema.org/Date</a>	The date on which the resource was created.

## The Specification

version 1.1

The LRMI specification is a collection of properties to describe educational resources. It builds on the extensive vocabulary provided by [Schema.org](http://Schema.org). Predominantly it uses properties of resources of type [schema.org/CreativeWork](http://schema.org/CreativeWork) that were proposed to Schema.org by the LRMI to describe the educational characteristics of learning resources. For some of these properties it uses the LRMI-created types [schema.org/AlignmentObject](http://schema.org/AlignmentObject) and [schema.org/EducationalAudience](http://schema.org/EducationalAudience).

## LRMI Metadata Terms in RDF



[DCMI Home](#) [LRMI 1.1](#) [Return to Community Specifications TOC](#)

### Title:

LRMI Terms as RDF

### Creator:

LRMI Task Group (DC-Education Community)

### Editors

Phil Barker  
Stuart Sutton

### Identifier:

<http://dublincore.org/dcx/lrmi-terms/2015-02-09/>

### Current Version:

<http://purl.org/dcx/lrmi-terms/>

### Previous Version:

<http://purl.org/dcx/lrmi-terms/drafts/2014-11-30/>

### Date Issued:

2015-02-09

### Document Status:

Community Specification

### Description:

The LRMI specification is a collection of classes and properties for markup and description of educational resources. The specification builds on the extensive vocabulary provided by Schema.org and other standards. LRMI terms not included in schema.org may nevertheless be used to augment and enrich Schema.org markup.

### Turtle Serialization:

<http://dublincore.org/dcx/lrmi-terms/2015-02-09/lrmi-terms.ttl>

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## Table of Contents

[Index of Terms](#)

- [1. Introduction & Definitions](#)
- [2. Namespace](#)
- [3. Classes](#)
- [4. Properties](#)
- [5. Version Changes](#)

Table 2. Other important characteristics of learning resources that are covered by Schema.org properties of CreativeWork

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<b>name</b>	schema.org/Text	The title of the resource.
<b>about</b>	schema.org/Thing	The subject of the content.
<b>dateCreated</b>	schema.org/Date	The date on which the resource was created.

## The Specification

version 1.1

The LRMI specification is a collection of properties to describe educational resources. It builds on the extensive vocabulary provided by [Schema.org](#). Predominantly it uses properties of resources of type [schema.org/CreativeWork](#) that were proposed to Schema.org by the LRMI to describe the educational characteristics of learning resources. For some of these properties it uses the LRMI-created types [schema.org/AlignmentObject](#) and [schema.org/EducationalAudience](#).

DCMI COMMUNITY SPECIFICATION

## LRMI Metadata Terms in RDF



[DCMI Home](#) [LRMI 1.1](#) [Return to Community Specifications](#)

**Title:**  
LRMI Terms as RDF

**Creator:**  
LRMI Task Group (DC-Education Community)

**Editors**  
Phil Barker  
Stuart Sutton

**Identifier:**  
<http://dublincore.org/dcx/lrmi-terms/2015-02-0>

**Current Version:**  
<http://purl.org/dcx/lrmi-terms/>

**Previous Version:**  
<http://purl.org/dcx/lrmi-terms/drafts/2014-11-3/>

**Date Issued:**  
2015-02-09

**Document Status:**  
Community Specification

**Description:**  
The LRMI specification is a collection of classes and terms not included in schema.org may nevertheless be used to describe educational resources.

**Turtle Serialization:**  
<http://dublincore.org/dcx/lrmi-terms/2015-02-0>

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- [Index of Terms](#)
- 1. [Introduction & Definitions](#)
- 2. [Namespaces](#)
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Table 2. Other important characteristics of learning resources

Property	Expected Type	Description
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## Thing > CreativeWork

The most generic kind of creative work, including books, movies, photographs, software programs, etc.

Property	Expected Type	Description
<b>Properties from CreativeWork</b>		
<b>about</b>	Thing	The subject matter of the content.
<b>accessibilityAPI</b>	Text	Indicates that the resource is compatible with the referenced accessibility API ( <a href="#">WebSchemas wiki lists possible values</a> ).
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<b>accessibilityHazard</b>	Text	A characteristic of the described resource that is physiologically dangerous to some users. Related to WCAG 2.0 guideline 2.3 ( <a href="#">WebSchemas wiki lists possible values</a> ).
<b>accountablePerson</b>	Person	Specifies the Person that is legally accountable for the CreativeWork.
<b>aggregateRating</b>	AggregateRating	The overall rating, based on a collection of reviews or ratings, of the item.
<b>alternativeHeadline</b>	Text	A secondary title of the CreativeWork.
<b>associatedMedia</b>	MediaObject	A media object that encodes this CreativeWork. This property is a synonym for encoding.
<b>audience</b>	Audience	The intended audience of the item, i.e. the group for whom the item was created.
<b>audio</b>	AudioObject	An embedded audio object.
<b>author</b>	Organization or Person	The author of this content. Please note that author is special in that HTML 5 provides a special mechanism for indicating authorship via the rel tag. That is equivalent to this and may be used interchangeably.
<b>award</b>	Text	An award won by this person or for this creative work. Supersedes <a href="#">awards</a> .
<b>character</b>	Person	Fictional person connected with a creative work.
<b>citation</b>	CreativeWork or Text	A citation or reference to another creative work, such as another publication, web page, scholarly article, etc.
<b>comment</b>	Comment or UserComments	Comments, typically from users, on this CreativeWork.
<b>commentCount</b>	Integer	The number of comments this CreativeWork (e.g. Article, Question or Answer) has received. This is most applicable to works published in Web sites with commenting system; additional comments may exist elsewhere.
<b>contentLocation</b>	Place	The location of the content.
<b>contentRating</b>	Text	Official rating of a piece of content—for example, 'MPAA PG-13'.
<b>contributor</b>	Organization or Person	A secondary contributor to the CreativeWork.
<b>copyrightHolder</b>	Organization or Person	The party holding the legal copyright to the CreativeWork.
<b>copyrightYear</b>	Number	The year during which the claimed copyright for the CreativeWork was first asserted.
<b>creator</b>	Organization or Person	The creator/author of this CreativeWork or UserComments. This is the same as the Author property for CreativeWork.
<b>dateCreated</b>	Date	The date on which the CreativeWork was created.
<b>dateModified</b>	Date	The date on which the CreativeWork was most recently modified.
<b>datePublished</b>	Date	Date of first broadcast/publication.
<b>discussionUrl</b>	URL	A link to the page containing the comments of the CreativeWork.
<b>editor</b>	Person	Specifies the Person who edited the CreativeWork.
<b>educationalAlignment</b>	AlignmentObject	An alignment to an established educational framework.

ards. LRMI

# **Ein Beispiel**



Health,  
Sports &  
Psychology

Education

History &  
The Arts

Languages

Money &  
ManagementNature &  
EnvironmentScience,  
Maths &  
TechnologyPeople,  
Politics &  
LawTV, Radio &  
Events

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## Continuing classical Latin



This unit gives you the opportunity to hear a discussion of the development of the...

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### Contents

[Introduction](#)[Learning outcomes](#)[1 A History of Latin](#)[Acknowledgements](#)[View as single page](#)

### Continuing classical Latin

#### Introduction

This unit features a discussion that shows how languages develop – a spoken language is constantly undergoing change while written language is more conservative. In its second part it also looks at the evolution of Latin into the Romance languages: Italian, French, Spanish, Portuguese, Romanian and others.



The discussions throughout this unit are between Professor Geoffrey Horrocks and Dr James Clackson, both of the Faculty of Classics, Cambridge University.

This is an adapted extract from the Open University course [Continuing classical Latin \(A397\)](#).

[Next: Learning outcomes](#)

### About this site

OpenLearn: free learning from The Open University

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- Watch, listen and interact

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### Study with the OU

Are you interested in  
**Arts and Humanities?**



```
<h1 property="schema:name" typeof="schema:Text">
Continuing classical Latin
</h1>
<span property="schema:learningResourceType">Free
Course</span>
<span class="hide">Featuring: </span>
<span property="schema:learningResourceType
">Audio</span>
```

# Metadaten != Metadaten

27

- Unterschiedliche Beschreibungen für unterschiedliche Zwecke
- Schema.org
  - Publikation von strukturierten Beschreibungen im Web
  - Ziel: Verbesserung von Suchmaschinenrecherchen

**Schema.org ist ein  
Metadatenschema**

**...., das heißt, es  
standardisiert  
Metadatenelemente.**

```
<h1 property="schema:name" typeof="schema:Text">
Continuing classical Latin
</h1>
<span property="schema:learningResourceType">Free
Course</span>
<span class="hide">Featuring: </span>
<span property="schema:learningResourceType
">Audio</span>
```

**Was fehlt?**

**Was fehlt?**

**Vorgaben für die *Werte*  
der Metadatenelemente**



```
<h1 property="schema:name" typeof="schema:Text">
Continuing classical Latin
</h1>
```

```
<span property="schema:learningResourceType">Free
Course</span>
```

```
<span class="hide">Featuring: </span>
```

```
<span property="schema:learningResourceType
">Audio</span>
```

- Gruppe OER-Metadaten innerhalb der DINI-AG KIM (seit Herbst 2013)
- Fehlende Metadatenelemente ergänzen
- Empfehlung und Angebot von Normdaten & kontrollierten Vokabularen
  - Beispiele: Sprachangaben, Themen, Schulart Schulfächer, Dateiformat ...
  - Auch hier gilt: Nachnutzen anstatt selbst erstellen und pflegen.

Namespaces (die bei den RDF-properties verwendet werden):

```
@prefix schema: <http://schema.org/> .
@prefix dc: <http://purl.org/dc/elements/1.1/> .
@prefix dcterms: <http://purl.org/dc/terms/> .
```

Element	Beschreibung	Wert* (ideal)	Kontrollierte Vokabulare	RDF-Properties	Elixier-Elemente	Anmerkungen
5.6 Alter (age range)	Alter der Zielgruppe, auf die sich die Ressource bezieht	S		schema:typicalAgeRange	alter_min; alter_max	
1.6 Autor (creator)	Personen und/oder Institutionen, die hauptverantwortlich für die Entstehung der Ressource sind			schema:creator	autor	
1.5 Beschreibung (description)		S		schema:description	beschreibung	
4.5 Vorschaubild	Vorschaubild der Ressource	U		schema:thumbnailUrl	bild_url	
5.5 Bildungsstufe (level/grade)		I	?	schema:educationalAudience ?	bildungsebene	
8.2 Mitwirkende	Beschreibung der Personen und/oder Institutionen, die zur Erfassung des Metadatensatzes beigetragen haben				einsteller	
8.1 Identifikator	Eindeutige Bezeichnung des Metadatensatzes				id_local	
5.7 Lehrplan (educational standard)				schema:educationalAlignment	lehrplanbezug	<ul style="list-style-type: none"> <li>Zur strukturierten Lehrplänen Standard "!! <a href="#">Definition of Educational Specifications</a></li> </ul>
5.2 Typ (resource type)	Angaben zum Typ der Ressource	I	<ul style="list-style-type: none"> <li>Siehe auch die <a href="#">tabellarische Übersicht über verschiedene Klassifikationen von ER-Typen (sortierte Version)</a></li> <li>mEducator Resource Type Taxonomy (siehe <a href="#">hier</a>, S. 9f)</li> <li>EAF-"Medianarten"-Tabelle : <a href="ftp://ftp.fwu.de/fwu/eaf/eafmed.txt">ftp://ftp.fwu.de/fwu/eaf/eafmed.txt</a></li> <li>EAF-Medienklassifikation: <a href="ftp://ftp.fwu.de/fwu/eaf/eafmk1.txt">ftp://ftp.fwu.de/fwu/eaf/eafmk1.txt</a> (<a href="#">Erläuterung der Systemstellen</a> (rtf))</li> </ul>	schema:learningResourceType	lernressourcentyp	
5.8 Lernzeit/Zeitaufwand (time required)	Geschätzte durchschnittliche Lern- oder Verwendungszeit der Zielgruppe für die Nutzung der Ressource	S	<a href="#">ISO 8601</a> verwenden	schema:timeRequired	lernzeit	

**Auch wichtig:**

**Daten über OER-Akteure,  
-Dienste,  
-Veranstaltungen etc.**

# OER World Map

Join us in mapping the world of OER!



Leave your email address and country, we'll keep you posted and update the stats!

Don't worry, neither will your email address show up on the map, nor will it be shared in any other way ([privacy policy](#)).

# Links

38

Applikationsprofil LOM-CH, Version 1.1:

[http://biblio.educa.ch/sites/default/files/20140708/lom-chv1.1\\_de\\_0.pdf](http://biblio.educa.ch/sites/default/files/20140708/lom-chv1.1_de_0.pdf)

EAF-Sachgebietssystematik: <ftp://ftp.fwu.de/fwu/systematik/sgsyst-p.zip>

Elixier-Systematik: <http://www.bildungserver.de/elixier/elixiersystematikliste.php>

ISO/IEC 19788 Information technology - Learning, education and training - Metadata for learning resources. Einträge im ISO-Katalog unter

[http://www.iso.org/iso/home/search.htm?qt=19788&published=on&active\\_tab=standards](http://www.iso.org/iso/home/search.htm?qt=19788&published=on&active_tab=standards).

LOM FINAL DRAFT STANDARD IEEE 1484.12.1-2002:

[http://biblio.educa.ch/sites/default/files/20130328/lom\\_1484\\_12\\_1\\_v1\\_final\\_draft\\_0.pdf](http://biblio.educa.ch/sites/default/files/20130328/lom_1484_12_1_v1_final_draft_0.pdf)

schema.org: <http://schema.org/>

LRMI: <http://lrmi.net>

LRMI Survey Report. July 2014 Update:

[http://www.lrmi.net/wp-content/uploads/2014/07/499-002\\_LRMI\\_2014\\_Education\\_Survey\\_Web.pdf](http://www.lrmi.net/wp-content/uploads/2014/07/499-002_LRMI_2014_Education_Survey_Web.pdf)

OER-Metadaten-Gruppe: <https://wiki.dnb.de/x/IQ30B>

OER-Metadaten-Empfehlungen (Entwurf): [https://wiki.dnb.de/x/hq\\_kBQ](https://wiki.dnb.de/x/hq_kBQ)

OER Worldmap: <https://oerworldmap.org/>

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39



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