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## Setting the Stage: Metadata & KOS Considerations

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### STARS Citation

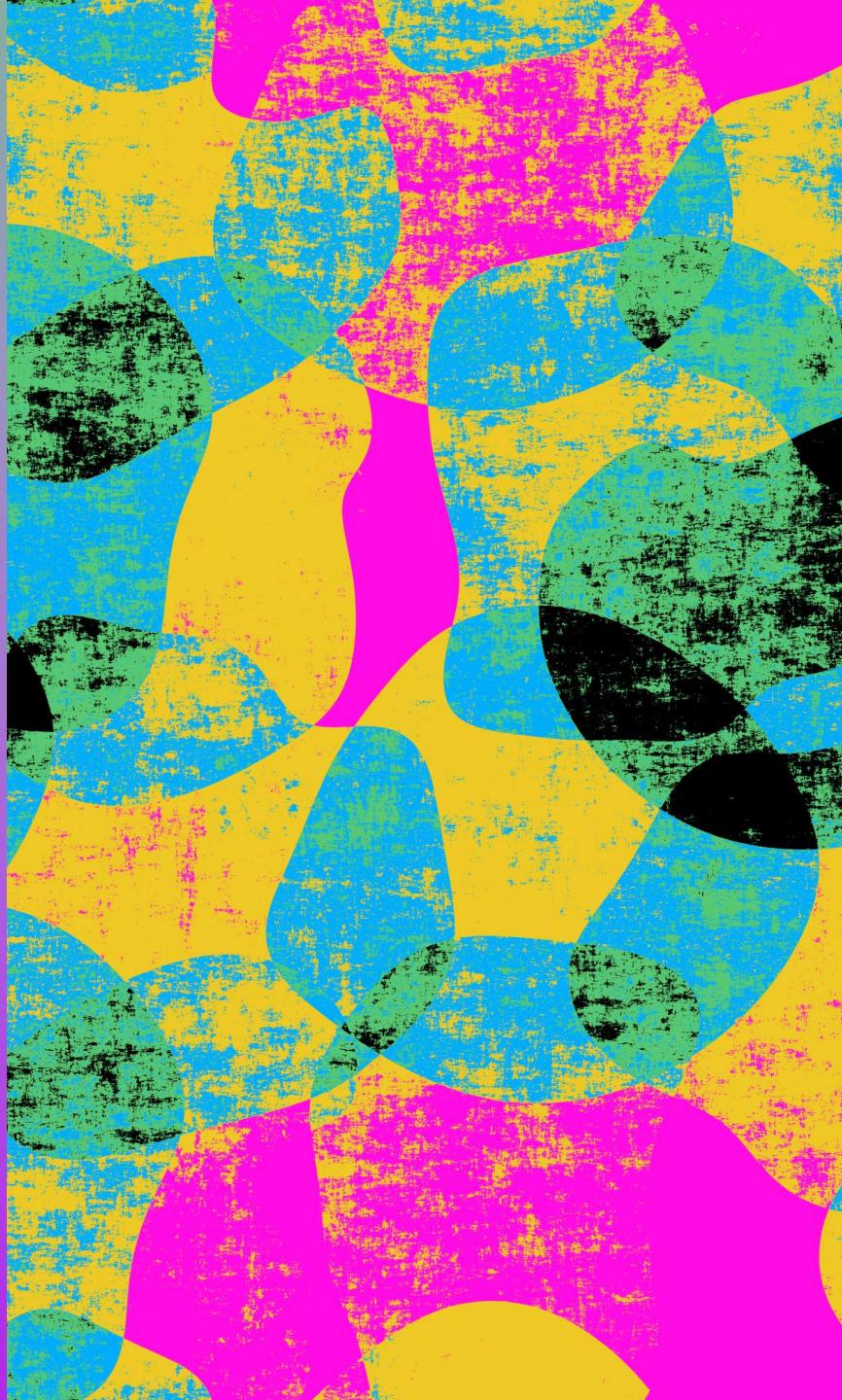
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<https://stars.library.ucf.edu/ucfscholar/954>



# SETTING THE STAGE: METADATA & KOS CONSIDERATIONS

Sai Deng, Metadata Librarian, University of Central Florida



# METADATA

- **Data about data.**
  - Meta: Greek prefix. Means "after, behind or beyond."
  - Data: Latin word. Factual information used for calculating, reasoning or measuring.
  - Metadata means something behind or beyond data itself, and it includes information about data's content, containers and context.
  - Data associated with an information object for purposes of description, administration, legal requirements, technical functionality, use and usage, and preservation.
    - Getty Research Institute
- **Metadata: Framework, Encoding, and Content**
  - **Framework:** general structure of the document
  - **Encoding:** syntactic scheme to write down the document (e.g., XML)
  - **Content:** specific information conveyed by the metadata
- **Types:** Descriptive metadata, Structural metadata, Administrative metadata

# SELECTING A METADATA STANDARD

- **UKOLN criteria:** Purpose of metadata, attributes of resource, design of standard, granularity, interoperability, support, growth, extensibility, reputation, ease of use, existing experience (2006)
- **Metadata standards strength in given categories:** community, domain, function, and purpose (Riley, 2009-2010)
- **Metadata standards criteria:** Granularity and formats, content standards, search systems, domain specificity, interoperability, proven success, reputation & popularity, training needed, supporting organization, ability to handle a particular metadata function, adaptability, scalability, surrogacy (Beall, 2007)
- **Metadata standards comparison:** Content and structure (identification, description, physical structure, logical structure, semantic structure), Flexibility (file formats, data types, databases, spatial data), accessibility (human access, machine access), stability , existing tools (Tyburczy et al., 2007)

# Domain

**Domain** refers to the types of services available standard or intended to be used while you could potentially be used for. The specific categories represented here are as used in this study in business, are they usually used by end users; rather they are focused on some customer service and they have been adopted by end user heritage and where information originates.

**Guidelines**: Objectives will focus on any, or all, injuries, and other conditions in disease.

**Database tip:** retrieve collection of primary data, largely before user-prefered scientists have taken place. They may be as filtered by scientists themselves, or through reviews as articles in the sciences, social sciences, humanities, or other disciplines.

Given spatial ID, it is often useful to have information relevant to a group of locations, either as a single data object or as a collection of objects whose values change uniformly over a region (e.g.,  $T(x)$ ).

**Missing Images** can be resources displayed online, video, or digital moving images.

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produced as part of a research or scholarly

**Honda Research** offers a material presence in liquid crystal form. These materials may be easily reconstituted and reconstituted in another.

1

**Community** refers to the group of users who

can think or who are the primary audiences we can agree on here, while those that could use the stand and effectively benefit us. If you're like us, you're also interested.

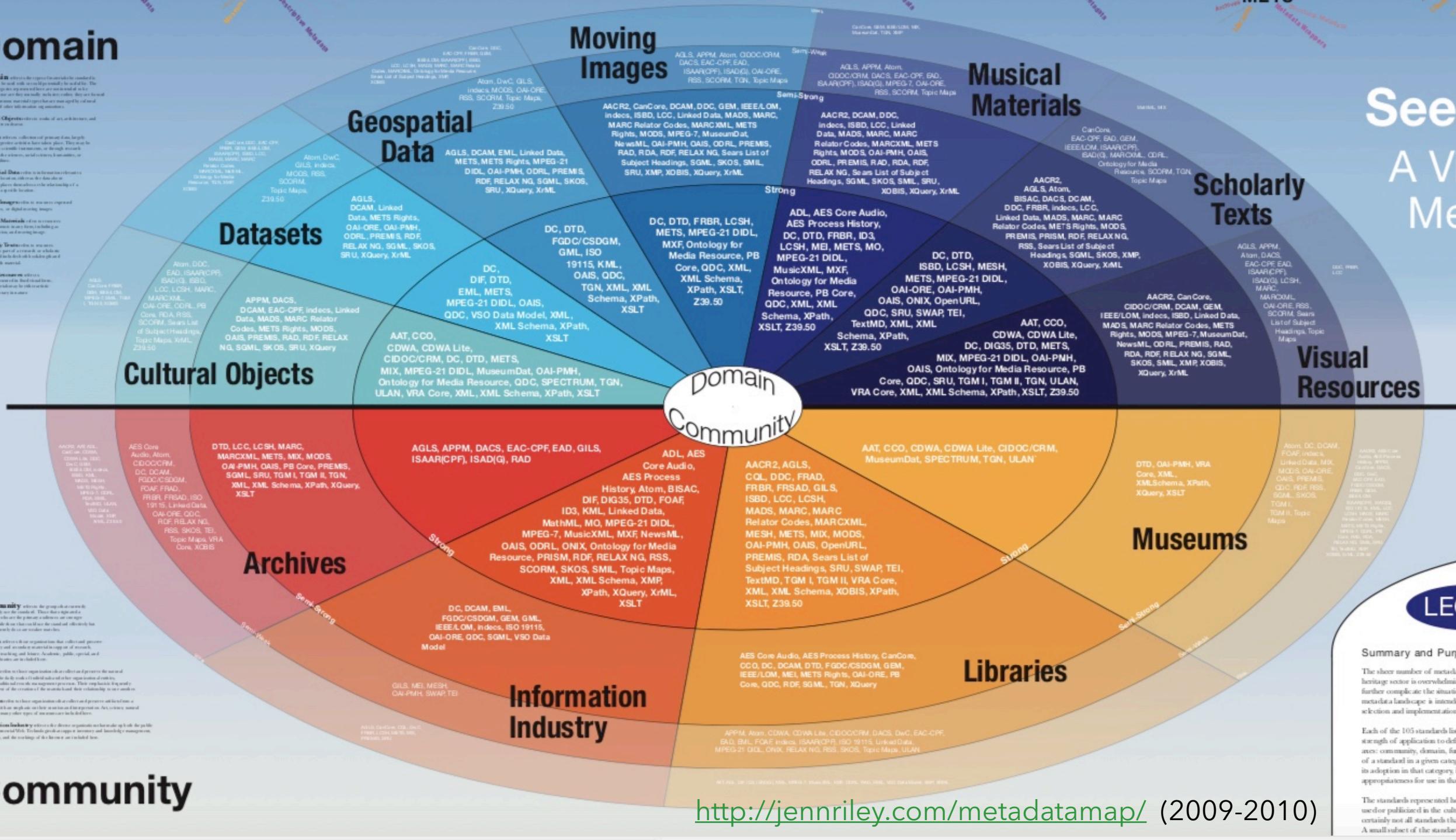
Academy members are invited to use our organized tools, resources, and services to help plan, manage, and evaluate your material in support of research, leadership, teaching, and learning. Academic, public, special, and school librarians are invited to use.

**Autobacteri** are the bacteria that collect and preserve the remains of the dead animals in their organic location of entire or partially digested remains, like meat, bones, fat, etc. Their main function is to decompose the remains and convert them into energy and nutrients.

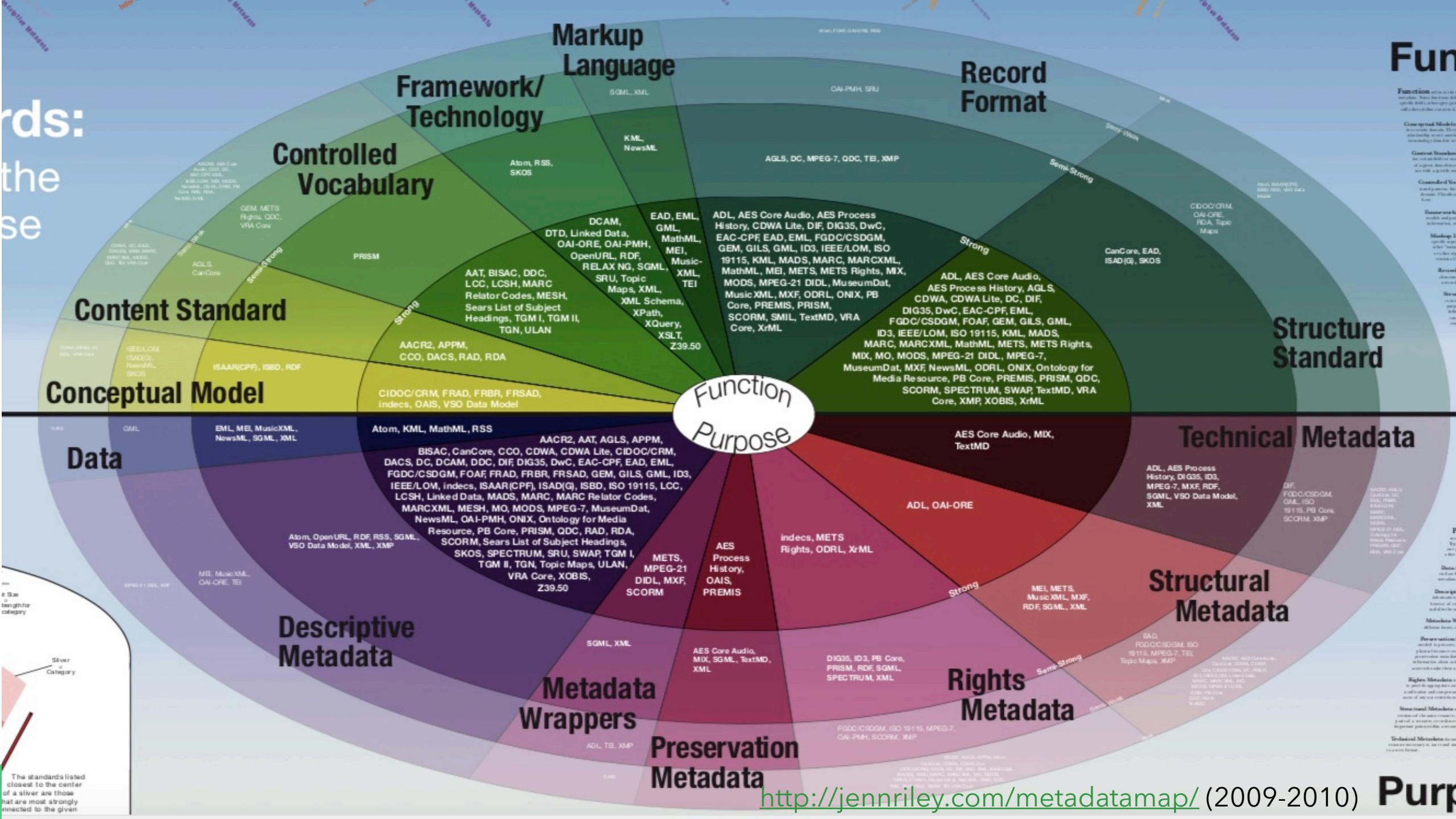
*Milax versicolor* cells can have organ location cells at different positions in the iron field with the simplest one being on top and the most frequent one, being in the center, and many other types of arrangement can include dead leaves.

**Classification of business functions** In trying to analyze the diverse organizations we have studied, it is convenient to classify them according to the nature of their primary business function. The basic functions of corporate business are: manufacturing, marketing, research, administration, and finance. The workings of these functions are included here.

## Community



**Pur**



# THINGS TO CONSIDER IN SELECTING A METADATA STANDARD

- **Project:** purpose/needs, types of materials, available information, available/potential system, potential users, funder requirement (if any)
- Characteristics (pros and cons) of the **metadata standards:**
  - **Domain**
  - **Granularity**
  - **Structure**
  - **Interoperability**
  - **Adaptability**
  - **Systems**
  - **Support file types**
  - **Related content standards**
  - **Resource description and/or full-text mark up**
- **Field:** standard discipline practice, community support

# DESCRIPTIVE METADATA

- **Dublin Core**

- A general metadata standard for cross-domain digital resource description.
- Dublin Core Metadata Element Set, Version 1.1
- DCMI Metadata Terms  
(<http://dublincore.org/documents/dcmi-terms/>)
  - 15 Elements: Title, Creator, Subject, Description, Publisher, Type, Format, Identifier, Source, Language, Relation, Coverage, Rights
  - newer elements/terms: accrualMethod, accrualPeriodicity, accrualPolicy, audience, instructionalMethod, rightsholder

- **Element Qualifiers:** title.alternative, description.abstract, description.tableOfContents, date.available, date.created, date.dateAccepted, date.dateCopyrighted, date.dateSubmitted, date.Issued, date.modified, date.valid, audience.educationLevel, audience.mediator, format.extent, identifier.bibliographicCitation, relation.conformsTo, relation.hasFormat, relation.hasPart, relation.hasVersion, relation.isFormatOf, relation.isPartOf, relation.isReferencedBy, relation.isReplacedBy, relation.isRequiredBy, relation.isVersionOf, relation.References, relation.replaces, relation.requires, relation.source, relation.format.medium, rights.accessRights, rights.License, coverage.spatial, coverage.temporal

# DUBLIN CORE

- **Domain:** Used for cross-domain information resource description; used by libraries widely
- **Granularity:** low granularity, low description depth
- **Structure:** flat, simple, e.g., <dc.title>Ballou's pictorial Vol. IX., No. 25, December 22, 1855</dc.title>
- **Interoperability:** medium-high interoperability; can be cross-walked to many standards
- **Adaptability:** highly adaptable; application profiles (e.g., use elements from multiple schemas)
- **Systems:** Digital Commons, Islandora, CONTENTdm, DSpace, Omeka (accommodate DC), local database and web
- **Support file types:** Fits for most formats (text, audio, video etc.);
- **Related content standards:** no particular content standards, can borrow from other standards (e.g., Resource Description and Access), local guidelines etc.
- **Resource description and/or full-text mark up:** only for general resource description, can be used for bibliographic information
- **Overall:** Simple, easy to use, already used widely; can be used for bibliographic information; not granular enough for specific discipline data

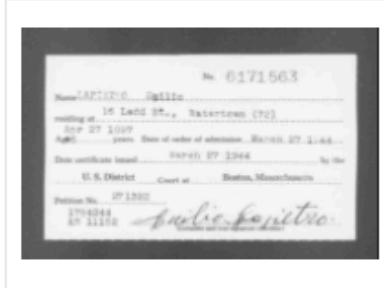
# LANGUAGE

- **Language**
  - **Controlled vocabulary:**  
[ISO 639-3 \(code\)](#),  
[IETF-BCP47](#)  
(language tag)
  - Can be used as a facet to refine your search
- **Example** (see right):  
**Language facet**  
(National Archives and Records Administration,  
DPLA)
- [SSDN Metadata Participation Guidelines](#)

Language	-
French	369
Spanish	291
Russian	138
Chinese	135
Portuguese	89
Vietnamese	87
Arabic	82
Japanese	74
Italian	72
German	65
Thai	60
Burmese	39

Contributing Institution	+
Partner	-
National Archives and Records Administration	15,990,396



## LAPIETRO Emilio

U.S. District Court for the District of Massachusetts. 1789  
Birth Year: 1897 Spouse: [Blank] Admission Year: 1944 Court:  
District

[View Full Item](#) in National Archives at Washington, DC - Textual Reference

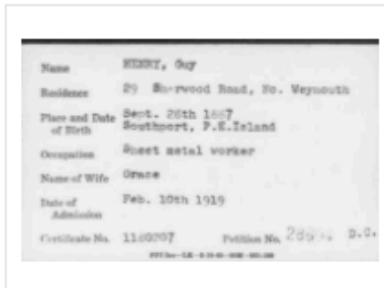


## Cross, John

- Unit: Comly's Independent Co, Cavalry  
(Emergency, 1863), Company: [Blank] - Enlistment Rank: Pvt, Discharge Rank: Pvt

War Department. The Adjutant General's Office. 3/4/1907-9/18/1947

[View Full Item](#) in National Archives at Washington, DC - Textual Reference



## HENRY, Guy

U.S. District Court for the District of Massachusetts. 1789  
Birth Year: 1887 Spouse: Grace Admission Year: 1919 Court:  
District

[View Full Item](#) in National Archives at Washington, DC - Textual Reference

# TYPE

- **DC Type Vocabulary**

- e.g., Text,  
StillImage,  
Sound,  
MovingImage

- **Item Types defined  
in Omeka (see right)**

- E.g., Book, Book Chapter, Journal Article (for description, can also add "Text" to the "Type" field)

Dashboard	Type Name	Description
Items	<a href="#">Manuscript</a> <a href="#">Edit</a>	Used for un-published papers, dissertations, essays, etc. Also called "Grey publication". Course materials including Syllabus, training documents, etc.
Collections	<a href="#">Sound</a> <a href="#">Edit</a>	A sound is a resource whose content is primarily intended to be rendered as audio. For example - a music playback file format, an audio compact disc, and recorded speech or sounds.
Item Types	<a href="#">Video</a> <a href="#">Edit</a>	Including moving pictures, film, and animations in electronic representations.
Tags	<a href="#">Web Page</a> <a href="#">Edit</a>	A web document that is suitable for the World Wide Web and the web browser. A web browser displays a web page on a monitor or mobile device.
Simple Pages	<a href="#">Presentation</a> <a href="#">Edit</a>	Documents used for creating, presenting and sharing presentations, including powerpoint slides and other related files. To classify the recording of presentation itself please use "Sound Recording" or "Video Recording"
Exhibits	<a href="#">Software</a> <a href="#">Edit</a>	Software is a computer program in source or compiled form which may be available for installation non-transiently on another machine. For software which exists only to create an interactive environment, use interactive instead.
Bulk Editor	<a href="#">Dataset</a> <a href="#">Edit</a>	A dataset is information encoded in a defined structure (for example, lists, tables, and databases), intended to be useful for direct machine processing.
History Logs	<a href="#">Image</a> <a href="#">Edit</a>	A primarily symbolic visual representation other than text. For example - images and photographs of physical objects, paintings, prints, drawings, and graphics, diagrams, maps, posters, musical notation. Note that image may include both electronic and physical representations.
Collection Tree	<a href="#">Document</a> <a href="#">Edit</a>	A written, drawn, presented, or memorialized representation of thought. Brochure, newsletter and report are classified under their own categories, but not document.
Reports	<a href="#">Book</a> <a href="#">Edit</a>	A written or printed work consisting of bound pages.
Guest Users	<a href="#">Book Chapter</a> <a href="#">Edit</a>	Chapter in a book or an e-book. (One of the sections into which a book is divided. A chapter usually has a section number or a name.)
Contribution	<a href="#">Journal Article</a> <a href="#">Edit</a>	A Scientific Article, a Peer-Reviewed Article, or a Scholarly Research Article published by a journal. can be Primary Research Articles and Review Articles.
Contact Contributors	<a href="#">Conference Proceeding</a> <a href="#">Edit</a>	The published record of a conference, congress, symposium, or other meeting sponsored by a society or association, usually but not necessarily including abstracts or reports of papers presented by the participants.
Dropbox		
LC Suggest		
Omeka Api Import		
CSV Import+		

- <[rdf:Description](http://digitalCollections.net.ucf.edu/cdm/ref/collection/WAR/id/3301) about="http://digitalCollections.net.ucf.edu/cdm/ref/collection/WAR/id/3301">

- <[dc:title](#)>  
Ballou's pictorial Gleason's pictorial Ballou's pictorial drawing-room companion Civil War Collection; Carol Mundy Library Welcome guest  
</[dc:title](#)>

<[dc:creatordc:creator](#)>

- <[dc:subject](#)>  
American literature -- Periodicals ; American literature -- 19th century -- Periodicals ; Louisiana -- History -- 18th century ; Louisiana -- History -- 19th century ; Novel -- 19th century.  
</[dc:subject](#)>

- <[dc:description](#)>  
Ballou's Pictorial, Boston, Saturday, December 22, 1855. Loose leaf from Vol. IX., No. 25 (Whole No. 233). The back of the leaf shows page number "386." Leaf includes an emblematical picture of the great State of Louisiana and a novel written by Austin C. Burdick "The Visconti, or, Barbarigo the Stranger, a tale of Milan during the middle ages." Loose leaf from Vol. IX., No. 25 (Whole No. 233). Illustration included. Acquired by Special Collections & University Archives, University of Central Florida Libraries from Carol Mundy, the collector of African-Americanana.  
</[dc:description](#)>

<[dc:publisherdc:publisher](#)>

<[dc:contributordc:contributor](#)>

<[dc:datedc:date](#)>

<[dc:typedc:type](#)>

- <[dc:format](#)>  
2 pages 40 cm. Jpeg and Jpeg2000 images were derived from 400 dpi tiffs scanned on an Avision FB 6080E Book-edge Scanner.  
</[dc:format](#)>

<[dc:identifierdc:identifier](#)>

- <[dc:source](#)>  
University of Central Florida Libraries, Special Collections & University Archives African American Legacy, the Carol Mundy Collection; Carol Mundy Library  
</[dc:source](#)>

<[dc:languagedc:language](#)>

<[dc:relationhttp://www.american-south.org](#) </[dc:relation](#)>

<[dc:coveragedc:coverage](#)>

- <[dc:rights](#)>  
All rights to images are held by the respective holding institution. This image is posted publicly for non-profit educational uses, excluding printed publication. For permission to reproduce images and/or for copyright information contact Special Collections & University Archives, University of Central Florida Libraries, Orlando, FL 32816, (407) 823-2576, email: speccoll@mail.ucf.edu  
</[dc:rights](#)>

<[rdf:Description](#)>

## A DC Record Example (in XML, exported from CONTENTdm)

Title	<a href="#">Ballou's pictorial</a>
Earlier Title	<a href="#">Gleason's pictorial</a>
Subject	<a href="#">American literature -- Periodicals</a> <a href="#">American literature -- 19th century -- Periodicals</a> <a href="#">Louisiana -- History -- 18th century</a> <a href="#">Louisiana -- History -- 19th century</a> <a href="#">Novel -- 19th century.</a>
Description	Ballou's Pictorial, Boston, Saturday, December 22, 1855...
Author	<a href="#">Ballou, Maturin Murray, 1820-1895.</a>
Publisher	<a href="#">M. M. Ballou</a>
Contributors	<a href="#">Austin C. Burdick.</a>
Date	<a href="#">1855</a>
Type	<a href="#">Newspapers</a>
Identifier	<a href="#">AP2.A389 No. 233</a>
Language	English
Relation	<a href="http://www.american-south.org">http://www.american-south.org</a>
Rights	All rights to images are held by the respective holding institution...
Tag	<a href="#">DP0012649</a>
Physical description	<a href="#">Loose leaf from Vol. IX., No. 25 (Whole No. 233). Illustration included.</a>
Number of pages	2 pages
Size	<a href="#">40 cm.</a>
Repository	<a href="#">University of Central Florida Libraries, Special Collections &amp; University Archives</a>
Repository Collection	<a href="#">African American Legacy, the Carol Mundy Collection</a> <a href="#">Carol Mundy Library</a>
Place	<a href="#">Boston, Mass.</a>
Coverage-Temporal	<a href="#">1691-1850</a>
Digital Publisher	University of Central Florida Libraries
Digital Reproduction Specifications	Jpeg and Jpeg2000 images were derived from 400 dpi tiffs scanned on an Avision FB 6080E Book-edge Scanner.
Alternative Title	<a href="#">Ballou's pictorial drawing-room companion</a>
Uniform Title	<a href="#">Civil War Collection</a> <a href="#">Carol Mundy Library</a>
Provenance	<a href="#">Acquired by Special Collections &amp; University Archives, University of Central Florida Libraries from Carol Mundy, the collector of African-Americanana.</a>
Later Title	<a href="#">Welcome guest</a>

Field name		DC map
1	Title	Title
2	Earlier Title	Title-Alternative
3	Subject	Subject
4	Description	Description
5	Table of contents	Description-Table Of Contents
6	Author	Creator
7	Photographer	Creator
8	Publisher	Publisher
9	Studio	Publisher
10	Contributors	Contributors
11	Date	Date-Issued
12	Type	Type
13	Identifier	Identifier
14	Language	Language
15	Relation	Relation
16	Coverage	Coverage
17	Rights	Rights
18	Audience	Audience
19	Tag	Identifier

20	Physical description	Description
21	Number of pages	Format-Extent
22	Size	Format-Extent
23	Keywords	Subject
24	Repository	Source
25	Repository Collection	Source
26	Place	Coverage-Spatial
27	Coverage-Temporal	Coverage-Temporal
28	Digital Publisher	None
29	Funding Source	None
30	Digital Reproduction Specifications	Format
31	Transcript	Description
32	Digital Date	Date-Available
33	Alternative Title	Title-Alternative
34	Uniform Title	Title-Alternative
35	Provenance	Description
36	Later Title	Title-Alternative
37	Filename	None

## CONTENTdm: Local Labels - Dublin Core Elements Mapping

dc.contributor.author	Plenneke, David [Collector]	en_US
dc.contributor.author	Plenneke, David [Cataloger]	en_US
dc.date.accessioned	2010-09-14T19:48:27Z	
dc.date.available	2010-09-14T19:48:27Z	
dc.date.created	1987-07-15	en_US
dc.date.issued	1987-07-15	en_US
dc.identifier	3647	en_US
dc.identifier.uri	<a href="http://library.wichita.edu/techserv/herbarium/browse.asp?id=3647">http://library.wichita.edu/techserv/herbarium/browse.asp?id=3647</a>	en_US
dc.identifier.uri	http://hdl.handle.net/10057/3031	
dc.format.extent	1034821 bytes	
dc.format.mimetype	image/jpeg	
dc.language.iso	en_US	
dc.publisher	Wichita State University. Dept. of Biological Sciences	en_US
dc.relation	U.S. Dept. of Agriculture Natural Resources Conservation Service	en_US
dc.relation.uri	<a href="http://plants.usda.gov/">http://plants.usda.gov/</a>	en_US
dc.rights	Copyright Wichita State University, 2010	en_US
dc.source	WSU herbarium	en_US
dc.subject	Asteraceae	en_US
dc.subject	Achillea lanulosa Nutt.	en_US
dc.subject	Yarrow	en_US
dc.subject	United States -- Colorado -- Teller Co.	en_US
dc.title	Achillea lanulosa Nutt. [Taxon]	en_US
dc.title.alternative	Yarrow	en_US
dc.type	Image	en_US
dc.coverage.spatial	North America	en_US
dc.coverage.spatial	United States	en_US
dc.coverage.spatial	Colorado	en_US
dc.coverage.spatial	Teller Co.	en_US
dc.coverage.spatial	NW1/4, SE1/4, Sec 32, T13S, R69W; Woodland Pk Quad	en_US
dwc.family	Asteraceae	en_US
dwc.verbatimElevation	11600'	en_US
dwc.habitat	Alpine	en_US

# APPLICATION PROFILE

## Metadata Application profile (MAP)

A set of metadata elements, policies, and guidelines defined for a particular application, or a given community.

Can use elements from more than one metadata schemes.

Guidelines for Dublin Core™ Application Profiles (Coyle et al.)

<https://www.dublincore.org/specifications/dublin-core/profile-guidelines/>

Introduction to Metadata Application Profiles (Coyle, 2018)

<https://www.youtube.com/watch?v=hEOBRUcfApg> (YouTube DCMI Channel)

Example: DPLA Metadata Application Profile

(<https://pro.dp.la/hubs/metadata-application-profile>)

Record Example (left): Achillea lanulosa Nutt. [Taxon]

This herbarium record in DSpace uses a combination of DC and DwC for metadata description.

<http://soar.wichita.edu/handle/10057/3031?show=full>

# MARCXML

- Developed by Library of Congress
- MARC data in an XML environment
- Components: schemas, stylesheets, and software tools

## MARC/MARCXML Characteristics:

**Domain:** library

**Granularity:** high granularity, high description depth

**Structure:** flat but complex (MARC); to be replaced by BIBFRAME (Bibliographic Framework, Work-Instance-Item); multi-level (only in terms of <datafield...><subfield> in MARCXML, not semantically)

**Interoperability:** highly interoperable; can be cross-walked to other standards, e.g., MARC-DC, MARC-MODS, MARC-EAD, MARC-TEI

**Adaptability:** highly adaptable; can define local fields

**Systems:** Ex Libris Alma, Aleph, Voyager, Sierra, Innovative Millennium, SirsiDynix Horizon, Koha, Evergreen etc.; Islandora can accommodate MARCXML

**Support file types:** used for all types

**Related content standards/vocabularies:** RDA, LCSH, FAST etc. (Vocabularies in LC linked data service, <https://id.loc.gov/>)

**Resource description and/or full-text mark up:** for bibliographic information only

**Overall:** MARC is strict and complicated, limited to library domain. MARCXML adds flexibility and extensibility to MARC.

# A MARCXML EXAMPLE

```
<?xml version="1.0" encoding="UTF-8"?>
<collection xmlns="http://www.loc.gov/MARC21/slim">
  <record>
    <leader>00714cam a2200205 a 4500</leader>
    <controlfield tag="001">12883376</controlfield>
    <controlfield tag="005">20030616111422.0</controlfield>
    <controlfield tag="008">020805s2002 nyu j 000 1 eng </controlfield>
    <datafield tag="020" ind1=" " ind2=" ">
      <subfield code="a">0786808772</subfield>
    </datafield>
    <datafield tag="020" ind1=" " ind2=" ">
      <subfield code="a">0786816155 (pbk.)</subfield>
    </datafield>
    <datafield tag="040" ind1=" " ind2=" ">
      <subfield code="a">DLC</subfield>
      <subfield code="c">DLC</subfield>
      <subfield code="d">DLC</subfield>
    </datafield>
    <datafield tag="100" ind1="1" ind2=" ">
      <subfield code="a">Chabon, Michael.</subfield>
    </datafield>
    <datafield tag="245" ind1="1" ind2="0">
      <subfield code="a">Summerland /</subfield>
      <subfield code="c">Michael Chabon.</subfield>
    </datafield>
    <datafield tag="250" ind1=" " ind2=" ">
      <subfield code="a">1st ed.</subfield>
    </datafield>
    <datafield tag="260" ind1=" " ind2=" ">
      <subfield code="a">New York :</subfield>
      <subfield code="b">Miramax Books/Hyperion Books for Children,</subfield>
      <subfield code="c">c2002.</subfield>
    </datafield>
    <datafield tag="300" ind1=" " ind2=" ">
      <subfield code="a">500 p. ;</subfield>
      <subfield code="c">22 cm.</subfield>
    </datafield>
    ...
  </record>
</collection>
```

Links:	<a href="#">Click here for digital images of the original letter</a>	LDR	^^^^^nkm^^2200541i^4500
Author, etc.:	<b>Pemberton, Phineas 1649-1702</b>	001	038053348
Title:	Phineas <b>Pemberton</b> , Ralph <b>Pemberton</b> , February 4, 1669	005	20210129152124.0
Published:	by Phineas <b>Pemberton</b> .	008	210126s1669^^^flunnn^^^^^^^^^kneng^d
Description:	Manchester, England : 1669.	024	<span style="color: green;">8</span> <b> a</b> 15736
Additional form:	1 letter, front and back.	035	<b> a</b> (OCoLC)1232929286
Series:	The original letter is available at the Historical Society of Pennsylvania.	040	<b> a</b> FTU <b> b</b> eng <b> e</b> rda <b> c</b> FTU <b> d</b> FTU
Alternate title:	<a href="#">PRINT Migration Network: Pemberton Correspondence</a>	043	<b> a</b> e-uk-en
Notes:	Phineas <b>Pemberton</b> 's letter to Ralph <b>Pemberton</b> , February 4, 1669.	045	<span style="color: green;">0</span> <b> b</b> d1669
	Location: 53.480759, -2.242631, 53.565216, -2.585102	046	<b> k</b> 16690204
	Access open to the public.	049	<b> a</b> [elec]FTUU
	Phineas <b>Pemberton</b> , Manchester, England, to Ralph <b>Pemberton</b> , Aspull, Lancashire, England, 1669-02-04, pg. 22b, <b>Pemberton</b> Family Papers, 1641-1880, 0484A, Historical Society of Pennsylvania, Philadelphia, PRINT, 15736, <a href="https://stars.library.ucf.edu/printmigrationnetwork-pemberton/10/">https://stars.library.ucf.edu/printmigrationnetwork-pemberton/10/</a> .	100	<span style="color: green;">1</span> <b> a</b> Pemberton, Phineas, <b> d</b> 1649-1702 <b> e</b> author
Summary:	Letter dated February 4, 1669 (January 25, 1669 Old Style) from Phineas <b>Pemberton</b> to Ralph <b>Pemberton</b> , members of the Society of Friends. It concerns Phineas' arrest with several others by the constable for holding a meeting at Nehemiah Poole's house. They were taken to the town hall and questioned by justices of the peace.	245	<span style="color: green;">10</span> <b> a</b> Phineas Pemberton, Ralph Pemberton, <b> f</b> February 4, 1669 <b> c</b> by Phineas Pemberton.
ISBN:	15736	246	<span style="color: green;">3</span> <b> a</b> Phineas Pemberton's letter to Ralph Pemberton, <b> f</b> February 4, 1669.
Other standard ID:	15736	264	<span style="color: green;">0</span> <b> a</b> Manchester, England : <b> c</b> 1669.
Subjects, general:	<a href="#">England Lancaster</a> <a href="#">England Manchester</a> <a href="#">Letters (correspondence)</a> <a href="#">Persecution</a> <a href="#">Personal correspondence</a> <a href="#">Quakers</a> <a href="#">Quakers -- Correspondence</a> <a href="#">Quakers -- England</a> <a href="#">Society of Friends</a> <a href="#">Society of Friends -- England</a> <a href="#">Aspull, Lancashire, England</a> <a href="#">Poole, Nehemiah</a>	300	<b> a</b> 1 letter, front and back.
Subject Term:		336	<b> a</b> still image <b> b</b> sti <b> 2</b> rdacontent
Other author(s),etc.:	<a href="#">Pemberton, Ralph 1610-1697</a> <a href="#">Phineas Pemberton (Q94253673)</a> <a href="#">Ralph Pemberton (Q102033482)</a>	337	<b> a</b> unmediated <b> b</b> n <b> 2</b> rdamedia
Related material(s):	<a href="#">PRINT Migration Network: Pemberton Correspondence</a>	338	<b> a</b> sheet <b> b</b> nb <b> 2</b> rdacarrier
Format:	2D Nonprojectable Graphic Media	500	<b> a</b> Location: 53.480759, -2.242631, 53.565216, -2.585102
		520	<b> a</b> Access open to the public.
		524	<span style="color: green;">0</span> <b> a</b> Letter dated February 4, 1669 (January 25, 1669 Old Style) from Phineas Pemberton to Ralph Pemberton, both members of the Society of Friends. It concerns Phineas' arrest with several others by the constable for holding a meeting at Nehemiah Poole's house. They were taken to the town hall and questioned by justices of the peace.
		530	<b> a</b> Phineas Pemberton, Manchester, England, to Ralph Pemberton, Aspull, Lancashire, England, 1669-02-04, vol. 1, pg. 22b, <b>Pemberton</b> Family Papers, 1641-1880, 0484A, Historical Society of Pennsylvania, Philadelphia, PRINT, 15736, <a href="https://stars.library.ucf.edu/printmigrationnetwork-pemberton/10/">https://stars.library.ucf.edu/printmigrationnetwork-pemberton/10/</a> .
		651	<span style="color: green;">7</span> <b> a</b> England--Manchester <b> 2</b> fast
		651	<span style="color: green;">7</span> <b> a</b> England--Lancaster <b> 2</b> fast
		650	<span style="color: green;">0</span> <b> a</b> Quakers <b> z</b> England.
		650	<span style="color: green;">0</span> <b> a</b> Quakers <b> v</b> Correspondence.
		650	<span style="color: green;">0</span> <b> a</b> Society of Friends <b> z</b> England.
		650	<span style="color: green;">7</span> <b> a</b> Quakers. <b> 2</b> fast <b> 0</b> (OCoLC)fst01084913
		650	<span style="color: green;">7</span> <b> a</b> Society of Friends. <b> 2</b> fast <b> 0</b> (OCoLC)fst01123801
		650	<span style="color: green;">0</span> <b> a</b> Persecution.
		653	<span style="color: green;">0</span> <b> a</b> Poole, Nehemiah
		655	<span style="color: green;">7</span> <b> a</b> Letters (correspondence) <b> 2</b> aat
		655	<span style="color: green;">7</span> <b> a</b> Personal correspondence. <b> 2</b> fast <b> 0</b> (OCoLC)fst01919948
		700	<span style="color: green;">0</span> <b> a</b> Phineas Pemberton (Q94253673) <b> 1</b> <a href="https://www.wikidata.org/wiki/Q94253673">https://www.wikidata.org/wiki/Q94253673</a>
		700	<span style="color: green;">1</span> <b> a</b> Pemberton, Ralph <b> d</b> 1610-1697 <b> e</b> Correspondent
		700	<span style="color: green;">0</span> <b> a</b> Ralph Pemberton (Q102033482) <b> e</b> Correspondent <b> 1</b> <a href="https://www.wikidata.org/wiki/Q102033482">https://www.wikidata.org/wiki/Q102033482</a>
		773	<span style="color: green;">0</span> <b> t</b> PRINT Migration Network: Pemberton Correspondence
		786	<span style="color: green;">0</span> <b> n</b> Historical Society of Pennsylvania <b> b</b> Pemberton Family Papers
		856	<span style="color: green;">41</span> <b> y</b> Click here for digital images of the original letter <b> u</b> <a href="https://stars.library.ucf.edu/printmigrationnetwork-pemberton/10">https://stars.library.ucf.edu/printmigrationnetwork-pemberton/10</a>
		899	<span style="color: green;">0</span> <b> a</b> PRINT Migration Network: Pemberton Correspondence <b> 5</b> KEEPCF <b> 5</b> FOFT
		NCO	<b> a</b> I
		SYS	038053348

# Phineas Pemberton (Q94253673)

No description defined

► Recoin: Most relevant properties which are absent

▼ In more languages

Language	Label	Description
English	Phineas Pemberton	No description defined

instance of	human	No description defined
		► 0 references

Lancashire	country	Kingdom of Eng
		► 1 reference

father	Ralph Pemberton	► 1 reference	edit
spouse	Phoebe Harrison	► 1 reference	+ add reference
	Alice Hodgson	► 1 reference	+ add value
residence	Bucks County	► 0 references	+ add reference
			+ add value
child	Abigail Jenkins	► 0 references	+ add reference
	Joseph Pemberton	► 0 references	+ add value
	Israel Pemberton	► 0 references	+ add reference
	Samuel Pemberton	► 0 references	+ add value
religion	Religious Society of Friends	► 1 reference	edit
archives at	Historical Society of Pennsylvania	► 0 references	+ add reference
			+ add value
FAST ID	1509032	► 0 references	+ add reference
			+ add value
Library of Congress authority ID	nr92042234	► 1 reference	edit
			+ add value
occupation	politician	► 0 references	+ add reference
	Clerk	► 0 references	+ add value
WorldCat Identities ID	lcn-nr92042234	► 1 reference	edit
			+ add value

<https://www.wikidata.org/wiki/Q94253673> Phineas Pemberton (Q94253673)

\*Bibliographic Framework (built for LOD environment) will eventually replace MARC.



Pennsbury Manor Cemetery 03.JPG  
3,888 x 2,592; 4.72 MB

- 0 references

# MODS

- **MODS: Metadata Object Description Schema**  
<http://www.loc.gov/standards/mods/>
- Selected data from MARC 21 records
- Encoded in XML
- Uses language-based tags rather than numeric ones
- Allow regrouping elements from MARC 21

## MODS Characteristics:

**Domain:** library, can be used for other domains

**Granularity:** high granularity, high description depth

**Structure:** multi-level (e.g., <originInfo> can include: <place>, <publisher>, <dateIssued>, <issuance>)

**Interoperability:** in theory high; can be cross-walked to other standards (MODS-MARC, MODS-DC)

**Adaptability:** highly adaptable; can define local fields

**Systems:** Islandora, DSpace, Omeka accommodate MODS

**Support file types:** used for all types, particularly applicable to digital resources

**Related content standards/vocabularies:** RDA, LCSH, FAST, AAT etc. (support defining authorities)

**Resource description and/or full-text mark up:** for bibliographic information only

**Overall:** it inherited semantics of MARC but not description rules; XML schema allows for flexibility; more compatible to MARC than DC or ONIX

```

<?xml version="1.0" encoding="UTF-8"?>
<mods version="3.4" xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-4.xsd"
      xmlns:dcterms="http://purl.org/dc/terms/" xmlns:flvc="info:flvc/manifest/v1" xmlns:xlink="http://www.w3.org/1999/xlink"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.loc.gov/mods/v3">
  - <titleInfo>
    <nonSort>The </nonSort>
    <title>meaning of the Soviet trials</title>
  </titleInfo>
  <identifier type="digitoil"> 671335</identifier>
  - <name type="personal">
    <namePart>Yaroslavskii, Emel'ian</namePart>
    <namePart type="date">1878-1943</namePart>
    - <role>
      <roleTerm type="text" authority="marcrelator">creator</roleTerm>
    </role>
  </name>
  - <name type="personal">
    <namePart>Bukharin, Nikolai Ivanovich</namePart>
    <namePart type="date">1888-1938</namePart>
    - <role>
      <roleTerm type="text" authority="marcrelator">defendant</roleTerm>
    </role>
    - <role>
      <roleTerm type="text" authority="marcrelator">contributor</roleTerm>
    </role>
  </name>
  ...
  - <originInfo>
    <publisher>Workers Library Publishers</publisher>
    <dateIssued keyDate="yes" encoding="w3cdtf">1938</dateIssued>
    - <place>
      <placeTerm type="text">New York, N.Y.</placeTerm>
    </place>
  </originInfo>
  - <language>
    <languageTerm type="text">English</languageTerm>
  </language>
  - <physicalDescription>
    <extent>46, [1] p. ; 19 cm.</extent>
  </physicalDescription>
  - <subject>
    - <name type="personal">
      <namePart>Bukharin, Nikolai Ivanovich</namePart>
      <namePart type="date">1888-1938</namePart>
    </name>
    <topic>Trials, litigation, etc</topic>
  </subject>
  - <subject>
    <topic>Trials (Political crimes and offenses)</topic>
    <geographic>Russia (Federation)</geographic>
    <geographic>Moscow</geographic>
  </subject>

```

```

  - <relatedItem type="original">
    - <location>
      <url>(Link to Original Online Catalog Record)</url> http://ucf.catalog.fcla.edu/...
    </location>
    <titleInfo>
      <nonSort>The </nonSort>
      <title>meaning of the Soviet trials</title>
    </titleInfo>
  </relatedItem>
  - <relatedItem type="series">
    - <titleInfo type="uniform">
      <title>PRISM: Political & Rights Issues & Social Movements collection</title>
    </titleInfo>
    - <location>
      <url displayLabel="(Link to PRISM Collection)"> https://ucf.digital.flvc.org/island...
    </location>
  </relatedItem>
  - <location>
    <physicalLocation>UCF Libraries Special Collections - 5th Floor -- HX15.V35 no.829</physicalLocation>
  </location>
  - <location displayLabel="purl">
    <url> http://purl.flvc.org/FCLA/DT/671335</url>
  </location>
  <accessCondition>All rights to images are held by the respective holding institution. This is a printed publication. For permission to reproduce images and/or for copyright information, contact University of Central Florida Libraries, (407) 823-2576. http://library.ucf.edu/Spe...
  <typeOfResource>text</typeOfResource>
</mods>

```

## MODS Record Example

(\*from DC-MODS-MARC transformation project, MODS edited using Notepad++)

## MODS Top-Level Elements:

- Title Info
- Name
- Type of resource
- Genre
- Origin Info
- Language
- Physical description
- Abstract
- Table of contents
- Target audience
- Note
- Subject
- Classification
- Related item
- Identifier
- Location
- Access conditions
- Part
- Extension
- Record Info

### Root elements:

- mods (A single MODS record)
- modsCollection (A collection of MODS records)

# TEI

- **TEI: Text Encoding Initiative**

- To mark up text (e.g., novels, plays, poetry, speeches) in humanities, social sciences and linguistics

- **Overall structure**

```
<TEI xmlns="http://www.tei-c.org/ns/1.0">
<teiHeader>
<!-- ... -->
</teiHeader>
<text>
  <front>
    <!-- front matter of copy text, if any, goes here -->
  </front>
  <body>
    <!-- body of copy text goes here -->
  </body>
  <back>
    <!-- back matter of copy text, if any, goes here -->
  </back>
</text>
</TEI>
```

**Domain:** chiefly in humanities, social sciences and linguistics

**Granularity:** high granularity, high description depth, can describe structure, typography, references etc.

**Structure:** complex, multi-level, e.g.,

<history><p>Written in<origPlace>England</origPlace>in the<origDate>13th cent.</origDate> ...</p></history>

**Interoperability:** medium interoperability; can be cross-walked to other standards (e.g., TEI-MARC, TEI-MODS, TEI-DC)

**Adaptability:** highly adaptable; schema can be customized for different collections; extensible

**Presentation/System:** Oxygen XML Editor/ (Transformed for) Web display, TAPAS (TEI Archiving, Publishing, and Access Service)

**Support file types:** for encoding text (e.g., prose, poetry, drama, manuscript, speech)

**Related content standards:** no particular content standards, can adapt from other standards, create local guidelines

**Resource description and/or full-text mark up:** include both bibliographic information and full-text mark up

```
<TEI xmlns="http://www.tei-c.org/ns/1.0" xmlns:cbb="http://brockdenbrown.cah.ucf.edu/ns/teiMods"
  xmlns:xi="http://www.w3.org/2001/XInclude" xml:id="a1805-02108">
```

```
  <!--<teiHeader>
```

```
    <!--<fileDesc>
```

```
      <!--<titleStmt>
```

```
        <title type="main">Richard the Third and Perkin Warbeck</title>
```

```
        <title type="version">TEI Document</title>
```

```
        <author cbb:cert="high">Brown, Charles Brockden</author>
```

```
      <!--<respStmt>
```

```
        <resp>transcription and initial TEI coding</resp>
```

```
        <orgName>Aptara</orgName>
```

```
      </respStmt>
```

```
      <!--<respStmt>
```

```
        <resp>TEI encoding enhancement</resp>
```

```
        <name>Mark L. Kamrath</name>
```

```
        <name>Philip Barnard</name>
```

```
        <name>William Dorner</name>
```

```
      </respStmt>
```

```
      <!--<respStmt>
```

```
      ...
```

```
    </respStmt>
```

```
  </titleStmt>
```

```
  <!--<editionStmt>
```

```
    <edition>TEI P5</edition>
```

```
  </editionStmt>
```

```
  <!--<publicationStmt>
```

```
    <publisher>The Charles Brockden Brown Electronic Archive and Scholarly Edition</publisher>
```

```
    <!--<address>
```

```
    ...
```

```
  </address>
```

```
  <idno type="accession">1805-02108</idno>
```

```
  <date when="2009-01"/>
```

```
  <!--<availability status="restricted">
```

```
    <p>Copyright 2009 The Charles Brockden Brown Electronic Archive and Scholarly Edition.</p>
```

```
  </availability>
```

```
</publicationStmt>
```

• Fields (in teiHeader):

fileDesc

titleStmt

title

author

respStmt

resp

name

editionStmt

edition

publicationStmt

publisher

address

idno

date

availability



The Charles Brockden Brown  
Electronic Archive and Scholarly Edition

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Citation | Print View | Choose Language

[Richard the Third and Perkin Warbeck](#)

[For the Literary Magazine.](#)

[Collapse All](#) | [Expand All](#)

[Download TEI markup for this file.](#)

Richard the Third and Perkin Warbeck  
For the Literary Magazine.  
RICHARD THE THIRD AND PERKIN WARBECK..

—108—

<http://brockdenbrown.cah.ucf.edu/xtf3/view?docId=1805-02108.xml&query=;brand=default> Richard the Third and Perkin Warbeck  
(Charles Brockden Brown Electronic Archive and Scholarly Edition)

TEI EXAMPLE

```

▼<sourceDesc>
  ▼<biblStruct>
    ▼<analytic>
      <author>Brown, Charles Brockden</author>
      <title level="a">Richard the Third and Perkin Warbeck</title>
    </analytic>
    ▼<monogr>
      <title level="j">The Literary Magazine and American Register</title>
      ▼<imprint>
        <pubPlace>Philadelphia</pubPlace>
        <publisher>John Conrad & Co.</publisher>
        <date when="1805-02">February 1805</date>
        <biblScope type="vol">III</biblScope>
        <biblScope type="issue">17</biblScope>
        <biblScope type="pp" from="108" to="110">108-110</biblScope>
      </imprint>
    </monogr>
  </biblStruct>
  </sourceDesc>
</fileDesc>
<xi:include href=".//cbb_encodingDesc.xml"/>
▼<profileDesc>
  ▼<textClass>
    ▼<keywords scheme="#CBB_keywords">
      <term>fiction</term>
      <term>historical fiction</term>
    </keywords>
  </textClass>
</profileDesc>
▼<revisionDesc>
  <change when="2015-02-10">William Dorner: (AUTOMATIC XSL TRANSFORMATION) r
elements in teiHeader with corresponding information from primary bibliogr
  <change when="2015-03-20">Justin Branch: implemented corrections from proc
  <change when="2015-07-07">William Dorner: added 'fiction' and 'historical
  <change when="2015-07-08">William Dorner: removed 'essay' genre</change>
</revisionDesc>
</teiHeader>

```

- More Fields (in teiHeader):

**biblStruct**

**analytic**

author

title

**monogr**

title

imprint

pubPlace

publisher

date

biblScope

**profileDesc**

**textClass**

keywords

term

**revisionDesc**

**change**

[http://brockdenbrown.cah.ucf.edu/xtf3/view  
?docId=1805-02108.xml;query=;brand=default](http://brockdenbrown.cah.ucf.edu/xtf3/view?docId=1805-02108.xml;query=;brand=default)

Richard the Third and Perkin Warbeck (Charles Brockden Brown Electronic Archive and Scholarly Edition)

TEI EXAMPLE

```
<?xml version="1.0" encoding="UTF-8"?>
<TEI>
  <text type="magazine">
    <body>
      <div>
        <pb n="108" facs="1805-02108-108.jpg"/>
        <head rend="center">
          <hi rend="italic">For the Literary Magazine</hi>
        .
        </head>
        <head rend="center">
          <hi rendition="#SC">richard the third and per</hi>
        -
        <lb/>
        <hi rendition="#SC">kin warbeck</hi>
        ..
        </head>
        <p>
          THE folly and the fallacy of fame
          <lb/>
          is an old theme of observation; but
          <lb/>
          there are few instances of its absur-
          <lb/>
          dity and           To such I may venture to recom-
          <lb/>
          than in           mend Du Bois' book, as well worthy
          <lb/>
          Richard          their attention.
          </p>
          <signed rend="right">CURIOSO.</signed>
        </div>
      </body>
    </text>
  </TEI>
```

- Fields (in text part):

text

body

div

pb

head

hi

p

lb

[http://brockdenbrown.cah.ucf.edu/xtf3/view  
?docId=1805-  
02108.xml;query=;brand=default](http://brockdenbrown.cah.ucf.edu/xtf3/view?docId=1805-02108.xml;query=;brand=default) Richard  
the Third and Perkin Warbeck (Charles  
Brockden Brown Electronic Archive and  
Scholarly Edition)

```
<msDesc xml:id="ex1" xml:lang="en">
<msIdentifier>
<settlement>Oxford</settlement>
<repository>Bodleian Library</repository>
<idno>MS. Add. A. 61</idno>
<altIdentifier type="former">
<idno>28843</idno>
</altIdentifier>
</msIdentifier>
<msContents>
<p>
<quote xml:lang="lat">Hic incipit Brutus Anglie,</quote> the
<title xml:lang="lat">De origine et gestis Regum Angliae</title>
of Geoffrey of Monmouth (Galfridus Monumetensis):
beg. <quote xml:lang="lat">Cum tecum multa & de multis.</quote>
In Latin.</p>
</msContents>
<physDesc>
<p>
<material>Parchment</material>; written in
more than one hand: 7½ x 5¾ in., i + 55 leaves, in double
columns; with a few coloured capitals.</p>
</physDesc>
<history>
<p>Written in
<origPlace>England</origPlace> in the
<origDate>13th cent.</origDate> On fol. 54v very faint is
<quote xml:lang="lat">Iste liber est fratris guillelmi de buria de ... Roberti
ordinis fratrum Predicatorum,</quote> 14th cent. (?):
<quote>hannailla</quote> is written at the foot of the page
(15th cent.). Bought from the rev. W. D. Macray on March 17, 1863, for
£1 10s.</p>
</history>
</msDesc>
```

- **Fields:**

**msDesc****msIdentifier**

Settlement

repository

Idno

altIdentifier

**msContents**

P

quote

title

**physDesc**

p

material

**History**

p

origPlace

origDate

quote

# Manuscript Description

# ONIX

- **ONIX (ONline Information eXchange) for Books**  
(<https://www.editeur.org/8/ONIX/>)
- An international standard for representing and communicating book industry product information in XML format.
- Designed by publishing industry to exchange book information with wholesalers, retail, e-tail booksellers.
- [https://www.editeur.org/files/ONIX%20for%20books%20-%20code%20lists/ONIX\\_BookProduct\\_Codelists\\_Issue\\_52.html](https://www.editeur.org/files/ONIX%20for%20books%20-%20code%20lists/ONIX_BookProduct_Codelists_Issue_52.html) ONIX for Books Codelists Issue 52 (25 January 2021)

## ONIX Characteristics:

**Domain:** chiefly for publishing industry

**Granularity:** high granularity, high description

depth; provides rich information such as contributor roles, illustrations and other content type, copyright, price, marketing, shipping etc.

**Structure:** complex, multi-level

**Interoperability:** high interoperability; can be cross-walked to other standards (e.g., MARC);

**Adaptability:** highly adaptable; schema can be customized for different collections

**Support file types :** for encoding book information

**Related content standards:** can adapt from other standards, local guidelines

**Resource description and/or full-text mark up:** not for full-text mark up

## Basic book information

```
<Product> <product> Required
  <RecordReference> <a001> Required
  <NotificationType> <a002> Required
  <ProductIdentifier> <productidentifier> Required
    <ProductIDType> <b221> Required
    <IDValue> <b244> Required
  <DescriptiveDetail> <descriptivedetail> Required
    <ProductComposition> <x314> Required
    <ProductForm> <b012> Required
    <ProductFormDetail> <b333> Recommended
    <TitleDetail> <titledetail> Required
      <TitleType> <b202> Required
      <TitleElement> <titleelement> Required
        <TitleElementLevel> <x409> Required
      <TitleText> <b203> Required
    <Contributor> <contributor> Required
      <SequenceNumber> <b034> Recommended
      <ContributorRole> <b035> Required
      <PersonName> <b036> Required
      <BiographicalNote> <b044> Recommended
    <EditionType> <x419> Optional
    <Language> <language> Recommended
      <LanguageRole> <b253> Required in this composite
      <LanguageCode> <b252> Required in this composite
    <Extent> <extent> Recommended
      <ExtentType> <b218> Required in this composite
      <ExtentValue> <b219> Required in this composite
      <ExtentUnit> <b220> Required in this composite
    <Subject> <subject> Recommended
      <MainSubject> <x425> Recommended
      <SubjectSchemeIdentifier> <b067> Required in this composite
      <SubjectCode> <b069> Required in this composite
  <Audience> <b069> Recommended
    <AudienceCodeType> <b204> Required in this composite
    <AudienceCodeValue> <b206> Required in this composite
    <AudienceRange> <audiercerange> Recommended
      <AudienceRangeQualifier> <b074> Required in this composite
      <AudienceRangePrecision> <b075> Required in this composite
      <AudienceRangeValue> <b076> Required in this composite
  <CollateralDetail> <collateraldetail> Recommended
    <TextContent> <textcontent> Recommended
    <TextType> <x426> Required in this composite
    <ContentAudience> <x427> Required in this composite
    <Text> <d104> Required in this composite
    <TextAuthor> <d107> Optional
    <SourceTitle> <x428> Optional
    <ContentDate> <contentdate> Optional
      <ContentDateRole> <x429> Required in this composite
      <Date> <b306> Required in this composite
  <ContentDetail> <contentdetail> Recommended
    <ContentItem> <contentitem> Required in this composite
      <TextItem> <textitem> Required in this composite
        <TextItemType> <b290> Required in this composite
        <NumberOfPages> <b061> Optional
  <PublishingDetail> <publishingdetail> Required
    <Imprint> <imprint> Recommended
      <ImprintName> <b079> Required in this composite
    <Publisher> <publisher> Recommended
      <PublishingRole> <b291> Required in this composite
      <PublisherName> <b081> Required in this composite
    <PublishingStatus> <b394> Recommended
    <PublishingDate> <publishingdate> Required
      <PublishingDateRole> <x448> Required - Use to enable pre-orders
      <Date> <b306> Required
```

## Example:

<https://support.google.com/books/partner/answer/6374180?hl=en>

ONIX 3.0 for Google Play Books

# OTHER METADATA STANDARDS/SCHEMA

- **EAD**
  - A standard for encoding archival finding aids with XML.
  - Example: <https://scua.library.ucf.edu/repositories/4/resources/172> Harrison "Buzz" Price Papers Finding Aids
- **Visual Resources Association Core Categories (VRA Core)**
  - A data standard for the description of works of visual culture as well as the images that document them.
  - [https://core.vraweb.org/examples/html/example017\\_full.html](https://core.vraweb.org/examples/html/example017_full.html) VRA Core 4 Example 17: Textual manuscript
- **DDI (Data Documentation Initiative)**
  - A metadata specification for the social and behavioral sciences. Expressed in XML, the DDI metadata specification supports the entire research data life cycle.
  - Example: <https://www.icpsr.umich.edu/web/ICPSR/studies/6984/summary>
- **DataCite Metadata** <https://schema.datacite.org/> (by datacite)
- **Schema.org Vocabularies** <https://schema.org/> (developed by Google, Microsoft, Yahoo, Yandex)

# M E T S

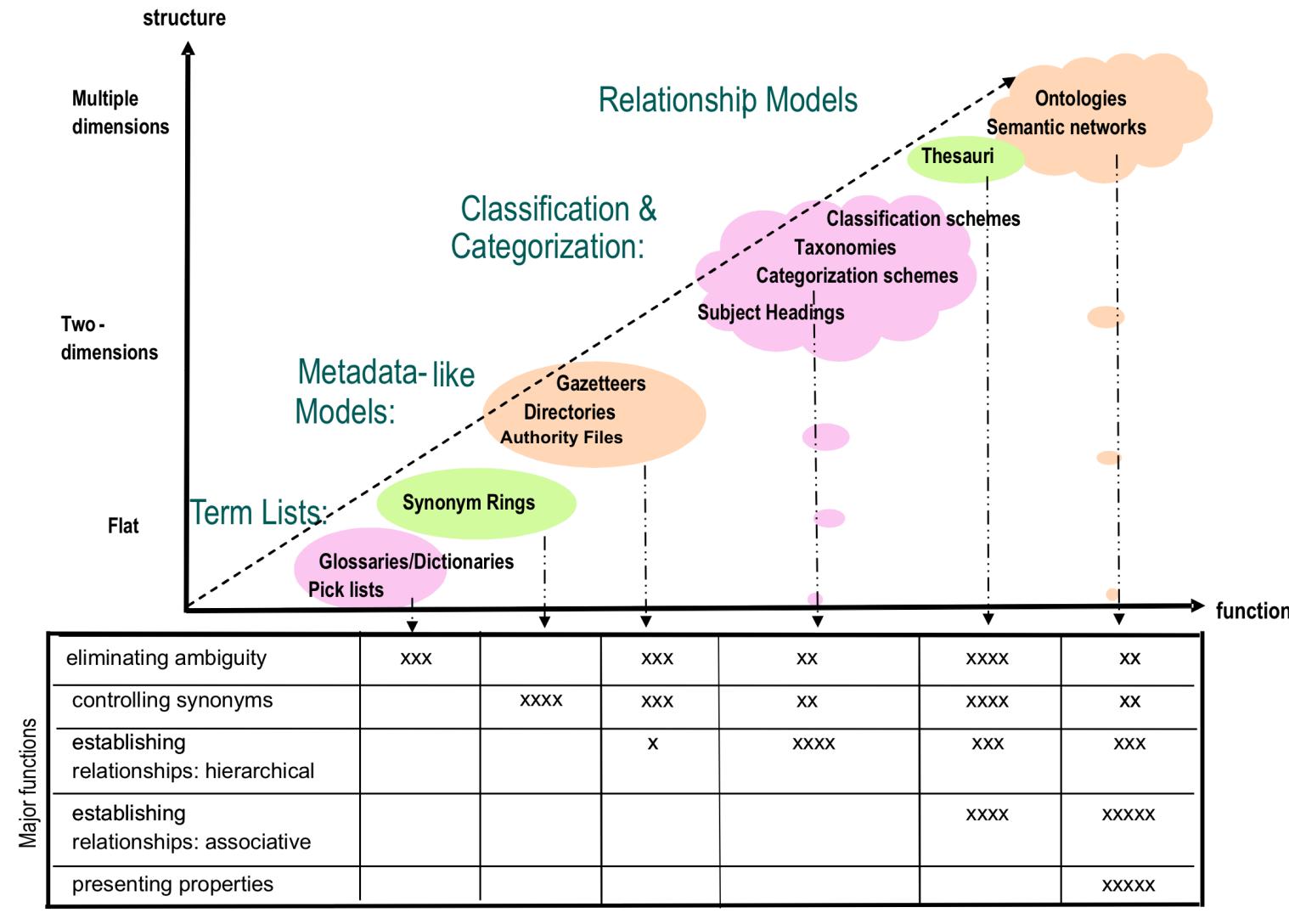
- **METS: Metadata Encoding and Transmission Standard**
- A standard for encoding descriptive, administrative, and structural metadata regarding objects within a digital library. A wrapper
- For transmission of already generated metadata.
- Supported by many digital repositories, e.g., Islandora, DSpace, Omeka
- Parts: METS Header, Descriptive Metadata, Administrative Metadata, File Section, Structural Map, Structural Links, Behavior
- <https://www.loc.gov/standards/mets/METSOversview.v2.html>
- Example: <http://www.autopenhosting.org/fedora/obj-image-userinput-archdraw.xml>

# K O S

- Knowledge Organization System
- Hodge's classification of KOS (2000) :
- Term Lists
  - Authority files
  - Glossaries
  - Dictionaries
  - Gazetteers
- Classifications and Categories
  - Subject headings
  - Classification schemes
  - Taxonomies
  - Categorization Schemes
- Relationship Lists
  - Thesauri
  - Semantic networks
  - Ontologies

## Various Types of KOS

Zeng 2008 p. 161



Zeng's classification of KOSs (2008)

# CLASSIFICATION & CATEGORIZATION

- **Subject headings:** vocabularies of controlled terms, which represent the subject of items in a collection, and include rules to combine such terms into compound headings.
  - E.g., Library of Congress Subject Headings (LCSH), Medical Subject Headings (MeSH)
- **Categorization schemes:** loosely assembled grouping schemes
  - Subject categories of the Web of Science (WoS)
- **Taxonomies** (historically associated to biological classifications): any ordered grouping of items based on particular features
- **Classification schemes:** hierarchical and faceted arrangements of numerical or alphabetical notations, which are used for representing broad topics and usually conceived as universal systems (i.e. covering all fields of knowledge).
  - E.g., Dewey Decimal Classification System (DDC)

<https://www.isko.org/cyclo/kos>

# RELATIONSHIP MODELS

- **Thesauri:** controlled and structured vocabularies, display hierarchical, associative and equivalence relations among terms/concepts.
  - E.g., Art and Architecture Thesaurus (AAT), ERIC Thesaurus
- **Semantic networks:** systems where terms/concepts are modelled like in a network of variable relationship types; richer than thesauri in defining categories or semantic types and semantic relations
  - E.g., UMLS (Unified Medical Language System) Semantic Network
- **Ontologies:** formal, explicit specification of a shared conceptualization (Gruber 1993). Usually consist of complex relations between entities, include rules and axioms which support logical reasoning. Conceptual vocabularies with properties and instances
  - E.g., Gene Ontology (GO), PREMIS OWL Ontology

# GLOSSARIES

- Perry et al. A Glossary of Philosophical Terms.  
In: Introduction to philosophy. Oxford University Press.  
[https://global.oup.com/us/companion.websites/9780199812998/studentresources/pdf/perry\\_glossary.pdf](https://global.oup.com/us/companion.websites/9780199812998/studentresources/pdf/perry_glossary.pdf)
- Wikipedia. Glossary of philosophy.  
[https://en.wikipedia.org/wiki/Glossary\\_of\\_philosophy](https://en.wikipedia.org/wiki/Glossary_of_philosophy)
- Cambridge Dictionary. Philosophy. SMART Vocabulary: related words and phrases. (see right graph)  
<https://dictionary.cambridge.org/us/topics/thinking-dreaming-and-ideas/philosophy/>

Aristotle	<b>axiom</b>	axiomatically	<b>Cartesian</b>	Confucian	Confucius
deontological	determinism	dialectic	<b>dualism</b>	empiricism	empiricist
epistemological	epistemology	esthete	esthetically	existential	existentialism
existentialist	expressionism	functionalism	functionalist	futurism	futurist
globalism	globalist	Hobbesian	holism	<b>humanism</b>	humanistic
idealism	individualism	<b>law</b>	materialism	materialist	maxim
<b>mechanistic</b>	metaphysical	metaphysics	modernism	nihilism	
nihilist	nihilistic	notional	ontological	ontology	Parkinson's law
phenomenologist	phenomenology	philosopher	<b>philosophical</b>		
philosophy	postmodernism	pseudo-science	rationalism	rationalist	
realism	realist	revisionism	skepticism	Socrates	Socratic
solipsistic	spatio-temporal	syllogism	syllogistic	symbolism	
<b>symbolist</b>	tabula rasa	teleological	teleology		
<b>theodicy</b>	<b>theorist</b>	<b>theorize</b>	<b>theory</b>	<b>transhumanism</b>	
	<b>utilitarianism</b>	<b>yang</b>	<b>yin</b>		

# A DICTIONARY OF PHILOSOPHICAL TERMS AND NAMES

- A Dictionary of Philosophical Terms and Names
- [A.B.C.D.E.F.G.H.I.J.K.L.M.N.O.P.Q.R.S.T.U.V.W.X.](#)

## Kant

- Life and Works
  - .. Critical Philosophy
  - .. Analytic / Synthetic
  - .. Mathematics
  - .. Natural Science
  - .. Experience & Reality
  - .. Phenomena / Noumena
  - .. Metaphysical Ideas
  - .. Limits of Reason
  - .. The Moral Law
  - .. Categorical Imperative
  - .. Autonomy of the Will
  - .. Third Critique
- Bibliography
- Internet Sources

<http://www.philosophypages.com/dy/index.htm>  
(by Garth Kemerling)

**Philosophy Pages**  
Britannica  
Internet Guide Selection

**Dictionary** **Study Guide** **Logic** **F A Q s**  
**History** **Timeline** **Philosophers** **Locke**



**Immanuel Kant**  
**(1724-1804)**

Immanuel Kant was born in the East Prussian city of Königsberg, studied at its university, and worked there as a tutor and professor for more than forty years, never travelling more than fifty miles from home. Although his outward life was one of legendary calm and regularity, Kant's intellectual work easily justified his own claim to have effected a Copernican revolution in philosophy. Beginning with his Inaugural Dissertation (1770) on the difference between right- and left-handed spatial orientations, Kant patiently worked out the most comprehensive and influential philosophical programme of the modern era. His central thesis—that the possibility of human knowledge presupposes the active participation of the human mind—is deceptively simple, but the details of its application are notoriously complex.

**Life and Works**  
.. Critical Philosophy  
.. Analytic / Synthetic  
.. Mathematics  
.. Natural Science  
.. Experience & Reality  
.. Phenomena / Noumena  
.. Metaphysical Ideas  
.. Limits of Reason  
.. The Moral Law  
.. Categorical Imperative  
.. Autonomy of the Will  
.. Third Critique  
Bibliography  
Internet Sources

# ARISTOTLE'S 10 CATEGORIES

- Aristotle's 10 categories of existing things:

- **Substance** (e.g., man, horse)
- **Quantity** (e.g., four-foot, five-foot)
- **Quality** (e.g., white, grammatical)
- **Relation** (e.g., double, half)
- **Place** (e.g., in the Lyceum, in the market-place)
- **Date** (e.g., yesterday, last year)
- **Posture** (e.g., is lying, is sitting)
- **State** (e.g., has shoes on, has armor on)
- **Action** (e.g., cutting, burning)
- **Passion** (e.g., being cut, being burned)

Aristotle term	Modern meaning	Example
<i>Ti esti, ousia</i>	Substance	man
<i>Poson</i>	Quantity	five-feet
<i>Poion</i>	Quality	white
<i>Pros ti</i>	Relation	half
<i>Pou</i>	Place	in the market-place
<i>Pote</i>	Date	yesterday
<i>Keisthein</i>	Posture	sitting
<i>Echein</i>	State	has clothes on
<i>Poitein</i>	Action	burning
<i>Paschein</i>	Passion	being burned

Almeida. The 10 highest categories defined by Aristotle. Adapted from Sutcliffe (1993)

# **DDC (TOP-LEVEL CLASSES)**

- 100 Philosophy, parapsychology and occultism, psychology**

Works that discuss the discipline of philosophy itself; works that discuss several of philosophy's major questions and branches; comprehensive works on philosophy broad enough to include nonwestern or medieval as well as modern western philosophy are classed in 100 itself or 101-109

Class comprehensive works on Christian philosophy, on modern philosophy, on western philosophy, on modern western philosophy, on European philosophy in 190. Class philosophy of a specific subject with the subject, plus notation 01 from Table 1, e.g., philosophy of history 901

- 101-109 Standard subdivisions of philosophy
- 110 Metaphysics
- 120 Epistemology, causation, humankind
- 130 Parapsychology and occultism
- 140 Specific philosophical schools and viewpoints
- 150 Psychology
- 160 Philosophical logic
- 170 Ethics (Moral philosophy)
- 180 Ancient, medieval, eastern philosophy
- 190 Modern western and other noneastern philosophy

<https://www.oclc.org/content/dam/oclc/webdewey/help/100.pdf>

# **D D C (C L A S S 1 0 0 - P H I L O S O P H Y & P S Y C H O L O G Y )**

- **100 Philosophy**

- 100 Philosophy & psychology
- 101 Theory of philosophy
- 102 Miscellany
- 103 Dictionaries & encyclopedias
- 104 [Unassigned]
- 105 Serial publications
- 106 Organizations & management
- 107 Education, research, related topics of philosophy
- 108 Groups of people
- 109 History & collected biography

- **110 Metaphysics**

- 110 Metaphysics
- 111 Ontology
- 112 *No longer used—formerly Methodology*
- 113 Cosmology (Philosophy of nature)
- 114 Space
- 115 Time
- 116 Change
- 117 Structure
- 118 Force and energy
- 119 Number and quantity

# LC CLASSIFICATION OUTLINE

## Subclass B

B1-5802	Philosophy (General)
B69-99	General works
B108-5802	By period
	Including individual philosophers and schools of philosophy
B108-708	Ancient
B720-765	Medieval
B770-785	Renaissance
B790-5802	Modern
B808-849	Special topics and schools of philosophy
B850-5739	By region or country
B5800-5802	By religion

## Subclass BC

BC1-199	Logic
BC11-39	History
BC25-39	By period
BC60-99	General works
BC171-199	Special topics

## Subclass BD

BD10-701	Speculative philosophy
BD10-41	General philosophical works
BD95-131	Metaphysics
BD143-237	Epistemology. Theory of knowledge
BD240-260	Methodology
BD300-450	Ontology
BD493-701	Including being, the soul, life, death
	Cosmology
	Including teleology, space and time, structure of matter, plurality of worlds

# LCSH

## Search LCSH:

<https://id.loc.gov/authorities/subjects.html>

## LC Linked Data Service: Authorities and Vocabularies

<https://id.loc.gov/>

## Philosophy

<http://id.loc.gov/authorities/subjects/sh85100849>

### Variants

- Mental philosophy

### Broader Terms

- [Humanities](#)

### Narrower Terms

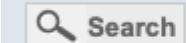
- [Absurd \(Philosophy\)](#)
- [Accidents \(Philosophy\)](#)
- [Act \(Philosophy\)](#)
- [Aesthetics](#)
- [Affiliation \(Philosophy\)](#)
- [Agent \(Philosophy\)](#)
- [Alaska Native philosophy](#)
- [Alienation \(Philosophy\)](#)
- [Analysis \(Philosophy\)](#)
- [Animals \(Philosophy\)](#)
- [Anti-realism](#)
- [Antinomy](#)
- [Aporia](#)
- [Appearance \(Philosophy\)](#)
- [Applied philosophy](#)
- ...

# FAST

## (Faceted Application of Subject Terminology)

### SEARCH FAST

Keywords



Search

### FAST TERMS

Search results for: "Philosophy"

Limit Results by: All

Displaying 1 to 10 of 2656

<< Previous    Next >>

1 Jump

Heading	Facet	Uses
<a href="#">Political science</a>	topic	221793
<a href="#">Philosophy</a>	topic	187564

philosophy

Political philosophy

**Philosophy**

Mental philosophy

Mentalism (philosophy)

Philosophy

Philosophy of mind

philosophy

Natural philosophy

Philosophy, Natural

Mental philosophy

Search FAST: <http://fast.oclc.org/searchfast/>

FAST Dataset Download:

<https://www.oclc.org/research/areas/data-science/fast/download.html>

# CATEGORY: PHILOSOPHY (WIKIPEDIA)

Click "►" to see subcategories

- ▼ [Branches of philosophy](#)
- [Branches of ancient Greek philosophy](#)
- [Aesthetics](#)
- [Axiology](#)
- [Cosmology](#)
- [Epistemology](#)
- [Ethics](#)
- [Logic](#)
- [Metaphilosophy](#)
- [Metaphysics](#)
- [Phenomenology](#)
- [Philosophy of logic](#)
- [Practical philosophy](#)
- [Theoretical philosophy](#)

## Subcategories

This category has the following 29 subcategories, out of 29 total.

- [Founders of philosophical traditions](#) (2 C, 46 P)
  - [Philosophy by culture](#) (15 C, 12 P)
  - [Philosophy by ethnicity](#) (6 C, 5 P)
  - [Philosophical concepts](#) (24 C, 224 P)
  - [Philosophy by region](#) (46 C, 1 P)
  - [Philosophy by topic](#) (19 C, 20 P)
  - \*
    - [Philosophers](#) (23 C, 9 P)
    - [Philosophy-related lists](#) (13 C, 2 P)
  - B**
    - [Branches of philosophy](#) (13 C)
  - C**
    - [Concepts](#) (10 C, 62 P)
- ...

<https://en.wikipedia.org/wiki/Category:Philosophy> Category: Philosophy

[https://en.wikipedia.org/wiki/Outline\\_of\\_philosophy](https://en.wikipedia.org/wiki/Outline_of_philosophy) (Wikipedia article: Outline of philosophy)

# A TAXONOMY OF PHILOSOPHY

A Taxonomy of Philosophy topic outline developed by [David Chalmers](#) as the category structure for the table of contents of the [PhilPapers](#) academic directory... ("preliminary and incomplete") E.g.,

- Metaphysics and Epistemology
  - Theories of the A Priori
  - Intuition
  - Epistemology of Intuition
  - Intuition, Misc
  - Linguistic Intuition\*
  - Mathematical Intuition\*
  - Modal Intuition\*
  - Moral Intuitionism
  - The Nature of Intuition
  - Memory\*
  - Perceptual Knowledge\*
- Epistemology
  - Epistemological Sources
  - The A Priori
    - Apriority and Necessity
    - Apriority in Mathematics
    - Conceptual Analysis\*
    - Modal Rationalism\*
    - Moral Rationalism\*
    - Rationalism\*
    - The A Priori, Misc
    - The Synthetic A Priori

<http://consc.net/taxonomy.html>

# PHILPAPERS CATEGORIES AND EDITORS

<https://philpapers.org/browse/all>

**17th/18th Century German Philosophy** (35,320 | 20) Corey W. Dyck

**Alexander Baumgarten** (88) Courtney Fugate

**Christian August Crusius** (68) Jonas Jervell Indregard

**Johann Georg Hamann** (114)

**Johann Gottfried Herder** (211)

**Friedrich Heinrich Jacobi** (43)

**Immanuel Kant** (29,192 | 115) Andrew Chignell

Kant: Metaphysics and Epistemology (11,165 | 3,165) Andrew Chignell

Kant: Metaphysics (2,886 | 823) Ralf M. Bader

Kant: Space (188) James Messina

Kant: Time (139)

Kant: Transcendental Idealism (420)

Kant: Causation (193) Eric Watkins

Kant: Ontology (134)

Kant: Freedom\* (387) Dai Heide

Kant: Modality (157) Jessica Leech

Kant: The Critique of Traditional Metaphysics (529 | 20) Corey W. Dyck

Kant: Rational Psychology (216) Corey W. Dyck

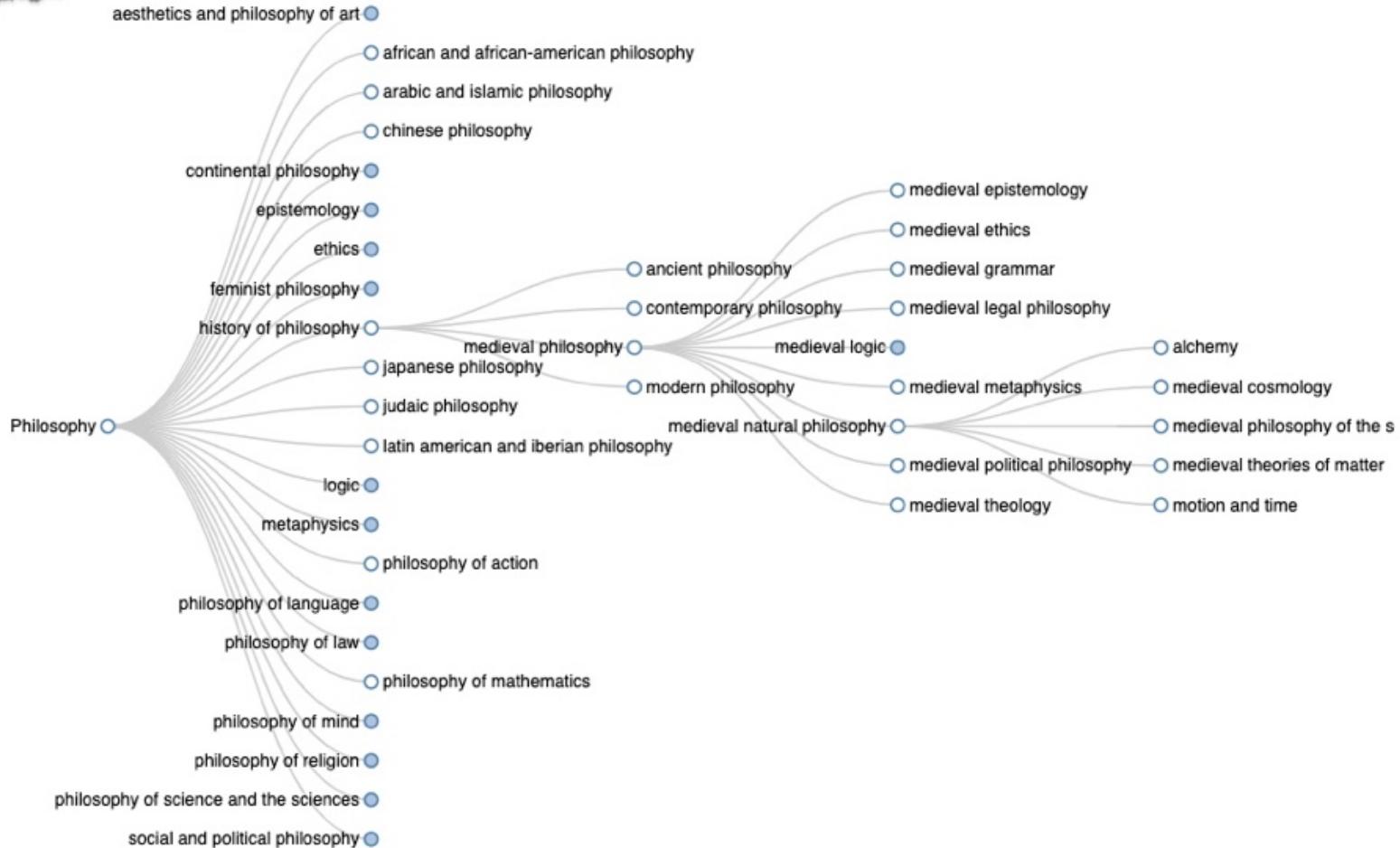
Kant: Rational Cosmology (84) Corey W. Dyck

Kant: Rational Theology (209) Corey W. Dyck

Kant: Metaphysics, Misc (303)

\* Folksonomy?!  
It currently has  
5671 categories,  
managed by 846  
volunteer editors.

# TAXONOMY



- <https://www.inphoproject.org/taxonomy> InPhO: The Taxonomy

# TAXONOMY



## German Philosophy

pp German Philosophy can be searched on PhilPapers.



- Philosophy
  - aesthetics and philosophy of art
  - african and african-american philosophy
  - arabic and islamic philosophy
  - chinese philosophy
  - continental philosophy
  - epistemology
  - ethics
  - feminist philosophy
  - history of philosophy
  - japanese philosophy
  - judaic philosophy
  - latin american and iberian philosophy
  - logic
  - metaphysics
  - philosophy of action
  - philosophy of language
  - philosophy of law
  - philosophy of mathematics
  - philosophy of mind
  - philosophy of religion
  - philosophy of science and the sciences
  - social and political philosophy

- <https://www.inphoproject.org/idea/652> German Philosophy, InPho

### Instances

No data



### Related Thinkers

- Q Immanuel Kant W 4
- Q Baruch Spinoza W 4
- Q Friedrich Hegel W 4
- Q Christian Wolff W 4
- Q Gottfried Leibniz W 4
- Q Moses Mendelssohn W 4
- Q Charles Darwin W
- Q Friedrich Schelling W 4
- Q Gustav Fechner W
- Q Friedrich Albert Lange W 4

Show more... (51)



### Occurrences

- Q 18th Century German Philosophy Prior to Kant 4
- Q Scottish Philosophy in the 19th Century 4
- Q Latin American Philosophy 4
- Q Darwin: From Origin of Species to Evolution 4



### Links

Currently we have no data for Instances, and Links. If you have suggestions, please send them to [inpho@inphoproject.org](mailto:inpho@inphoproject.org)



### Related Terms

- Q Idealism 4
- Q Ontology 4
- Q Respect 4
- Q Consciousness 4
- Q Universals 4
- Q Ideas 4
- Q Matter 4
- Q Time 4
- Q Space and Time 4
- Q Philosophy of Psychology 4

Show more... (306)



### Hyponyms

- Q Ontology 4
- Q Respect 4
- Q Ideas 4
- Q Universals 4
- Q Matter 4
- Q Attention 4
- Q Relations 4



# TAXONOMY IN DIGITAL COMMONS

- **Disciplines: Digital Commons Three-Tiered Taxonomy of Academic Disciplines**  
[https://bepress.com/reference\\_guide\\_dc/disciplines/](https://bepress.com/reference_guide_dc/disciplines/)
- [https://bepress.com/wp-content/uploads/2016/12/bepress\\_Disciplines\\_taxonomy.pdf](https://bepress.com/wp-content/uploads/2016/12/bepress_Disciplines_taxonomy.pdf) (Taxonomy PDF)

Arts and Humanities: Philosophy  
Arts and Humanities: Philosophy: Aesthetics  
Arts and Humanities: Philosophy: Applied Ethics  
Arts and Humanities: Philosophy: Comparative Philosophy  
Arts and Humanities: Philosophy: Continental Philosophy  
Arts and Humanities: Philosophy: Epistemology  
Arts and Humanities: Philosophy: Ethics and Political Philosophy  
Arts and Humanities: Philosophy: Feminist Philosophy  
Arts and Humanities: Philosophy: History of Philosophy  
Arts and Humanities: Philosophy: Logic and Foundations of Mathematics  
Arts and Humanities: Philosophy: Metaphysics  
Arts and Humanities: Philosophy: Philosophy of Language  
Arts and Humanities: Philosophy: Philosophy of Mind  
Arts and Humanities: Philosophy: Philosophy of Science  
Arts and Humanities: Philosophy: Other Philosophy

# CREATING CATEGORIES/TAGS/TAXONOMIES

- **Project purpose, needs assessment, creators, users**
- **Literature research, information gathering**
  - **Survey** existing term lists, keywords/tags, subjects, taxonomies, thesauri etc.
  - **Research** existing projects, examples
  - **Collect terms:**
    - Books and their indexes, Table of Content
    - Documents
    - Databases
    - Encyclopedia, Glossaries
    - Web resources
    - Search logs
    - Users, Experts

# CREATING CATEGORIES/TAGS/TAXONOMIES

- **Design and building**
  - To decide on **taxonomy structures**
    - **Hierarchies**
    - **Facets**
  - **Organize terms:**
    - Sort into big categories (top terms);
    - Start from 10-20;
    - Analyze gaps, modify/add/delete;
  - Materials in this section is mainly from Taxonomies for Indexing: A Hands-On Approach (Workshop), by Hlava, Marjorie, Access Innovations

# CREATING CATEGORIES/TAGS/TAXONOMIES

- **Term structure and relationships**
  - **Hierarchical relationships:** broader, narrower terms (BT, NT)
    - Generic relationship (genus-species), eg., Value (Cultural value, Moral value etc.)
    - Whole-part relationship
    - Instance relationship
    - Creating hierarchies: depth, breadth, arrangement, grouping categories
  - **Polyhierarchical relationship:** can have multiple broader terms

# CREATING CATEGORIES/TAGS/TAXONOMIES

- **Equivalence relationships:**
  - **Preferred term** (thesaurus notation: Use)
  - **NonPreferred term** (thesaurus notation: Used for, UF)
  - When to use: synonyms, slang, lexical variants (spelling, grammar variations)
- **Scope notes (SN):** indicate meaning, restriction, range, instruction, use only as needed
- **Associative relationships:** related terms (RT), cousins
  - Terms related conceptually but not hierarchically, not equivalent
  - Term and related terms both used for indexing

# CREATING CATEGORIES/TAGS/TAXONOMIES

- **Facets**

- Use semantic categories
- Mutually exclusive
- Built for Faceted navigation
- Examples:
  - Art & Architecture Thesaurus (AAT) facets
    - Associated Concepts, Physical Attributes, Styles and Periods, Agents, Activities, Materials, Objects

# CREATING CATEGORIES/TAGS/TAXONOMIES

- More about terms
  - Term format
    - Short and simple;
  - Grammatical issues
    - Nouns and noun phrases (e.g., adj. + n. - Art history, n. + prep. +n - History of Art)
    - Verbs: gerund form -- Fishing
    - Adjectives: rare; can be combined with another term
    - Adverbs: no, except as part of a proper name
    - Initial articles: no, except as part of a proper name

# CREATING CATEGORIES/TAGS/TAXONOMIES

- **Singular and plural forms**

- Plural form for count nouns: animals, books
- Singular form for mass nouns: oxygen
- Exceptions: unique entities -- singular, user warrant - plural/singular (e.g., fishes)

- **Spelling**

- Alternative spelling in the same taxonomy (if needed), NonPreferred Term for secondary spelling

- **Abbreviations and acronyms**

- Use only when full form is rarely seen - DNA, LASER
- Alternative becomes NonPreferred Term
- Be consistent

# CREATING CATEGORIES/TAGS/TAXONOMIES

- **Capitalization**

- Use all lower case, except for: Initialisms, Proper names, Trade names etc.; differs in practice

- **Punctuation:** parentheses (use to disambiguate), hyphens (only when necessary), diacritical marks (keep if possible), apostrophes (keep for possessive case)

- **Compound terms vs. factored terms**

- Compound terms (precoordinated, put together at indexing stage)
- Factored terms (postcoordinated, put together at search stage)
- To factor or not: is each factor a single concept? Is each factor in your thesaurus/list? Will factoring be confusing? (e.g., Philosophy library)

- **Review, test and revise; write policies and guidelines**

# AUTOMATIC TAG LIBRARY/ TAXONOMY CONSTRUCTION

- **Use software to support creation**
  - Human/automatic/hybrid categorizer
  - Content management systems provide ways of adding and presenting categories/tags/taxonomies (e.g., Wordpress), subjects and tags (e.g., Omeka)
  - Thesaurus software
    - MultiTes, Data Harmony Thesaurus Master, Synaptica etc. (Commercial)

# AUTOMATIC TAG LIBRARY/ TAXONOMY CONSTRUCTION

- **Creation of a Tag Library**

- **Folksonomy:** users provide tags to online resources, rich/diverse, flat, lack of semantic relations
- **Tags:** can be concepts, categories, facets, entities; can define time, space, concepts, characters...
- **Tag Library** helps users to apply tags and classify documents/resources
- **Methods:** Using semantic dictionary to compare and standardize tags, user annotation control, tag recommendation, optimum selection of user tags
- **Auto-categorization**
  - Preprocessing, training set, test set, tag cleaning, tag standardization
  - Algorithms: Vector Space Model, Naive Bayes, Decision Tree, K-means...

# OTHER CONSIDERATIONS: METADATA INCLUSIVENESS & LINKED DATA

- **Metadata Inclusiveness**

- Ethical and cultural considerations
- Gender considerations
- Racial considerations
- Multilingual metadata & access
- Describing disability
- Acknowledging humanity
- **Examples, thesauri, subject heading lists** etc. can be found at: Spark a Conversation on Metadata Inclusiveness (<https://stars.library.ucf.edu/ucfscholar/953/>)
- **Thesauri consideration:** Preferred vs. NonPreferred Terms, Inclusive vs. Historically biased terms (Used for, Use)

- **Linked Data:**

- LC Linked Data Service (<https://id.loc.gov/>)
- Linked Data in the Library & OpenRefine (2018, <https://stars.library.ucf.edu/ucfscholar/774/>)
- Lower the Barrier & Be Empowered: Creating and Including Linked Data Vocabularies for Digital Collections (2019, includes Wikidata creation, <https://stars.library.ucf.edu/ucfscholar/773/>)

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**Thank you!**

