

COAR Vocabularies

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About the Interest Group



- Provides a forum for repository managers and information specialists
- Gathers information on controlled vocabularies and their usage in appl. profiles
- Took over “info:eu-repo” application profile
 - European standardization effort to harmonize usage of OAI metadata; supported via plugins in OJS, DSpace, EPrints
- Has set up Editorial Board for COAR Controlled Vocabularies



Problem Definition

Factors

- Variety of metadata standards and vocabularies
- Regional repository networks, diversity of spoken languages
- Update of repository technology stack
 - linked data, semantic web
- Contextual description of digital objects
 - publ.-data-linkage, classification, embargo dates, ...

⇒ Improvement of syntactic & semantic interoperability



- COAR Controlled Vocabularies are build on reviewed “info:eu-repo” encoding schemes
- Editorial Board members take care of
 - suggested new concepts / terms
 - language translation of labels
 - documentation
- Workflow driven editorial online tool
 - VocBench (originally created to manage AGROVOC)
- COAR Controlled Vocabularies are going to be operated as COAR Service for Open Access Repositories



Vocabulary Editing and Workflow Tool



Concept

VocBench VERSION 2.3 [Build 20150423] (DEVELOPMENT)

Recent changes Concepts Properties Schemes Validation SPARQL ICV

Concepts Show URI Show non-preferred

URI: http://purl.org/coar/resource_type/c_6501

- annotation (en); comentario (es); commento (it); примечание (ru); 标注 (zh)
- article (en); artículo (es); article (fr); articolo in rivista (it); статья (ru); 文献 (zh)**
- audiovisual (en); material audiovisual (es); materiale audiovisivo (it); 视听 (zh)
- bachelor thesis (en); proyecto fin de carrera (es); tesi di laurea (it); диплом бакалавра (ru); 本科毕业论文 (zh)

Multilingual Labels

article (en); artículo (es); article (fr); articolo in rivista (it); статья (ru); 文献 (zh)

Terms (20) Definition (1) Attribute (0) Relationship (0) Alignments (10)

+ Add new term

Language	
English (en)	<input checked="" type="checkbox"/> article (Preferred) W
	<input checked="" type="checkbox"/> paper W
	<input checked="" type="checkbox"/> journal article W
	<input checked="" type="checkbox"/> journal articles W
Español (es)	<input checked="" type="checkbox"/> artículo (Preferred) W
	<input checked="" type="checkbox"/> artículo revisado por pares W
	<input checked="" type="checkbox"/> artículo científico W
	<input checked="" type="checkbox"/> artículo científico W
Français (fr)	<input checked="" type="checkbox"/> article (Preferred) W
	<input checked="" type="checkbox"/> article scientifique W
	<input checked="" type="checkbox"/> article de recherche W
中文 (zh)	<input checked="" type="checkbox"/> 文献 (Preferred) W
	<input checked="" type="checkbox"/> 论文 W
	<input checked="" type="checkbox"/> 期刊文章 W
	<input checked="" type="checkbox"/> 文章 W
Русский (ru)	<input checked="" type="checkbox"/> статья (Preferred) W
	<input checked="" type="checkbox"/> статья (Preferred) W
Deutsch (de)	<input checked="" type="checkbox"/> Wissenschaftlicher Artikel (Preferred) W
Italiano (it)	<input checked="" type="checkbox"/> articolo in rivista (Preferred) W
	<input checked="" type="checkbox"/> articolo W

Mappings

article (en); artículo (es); article (fr); articolo in rivista (it); статья (ru); 文献 (zh)

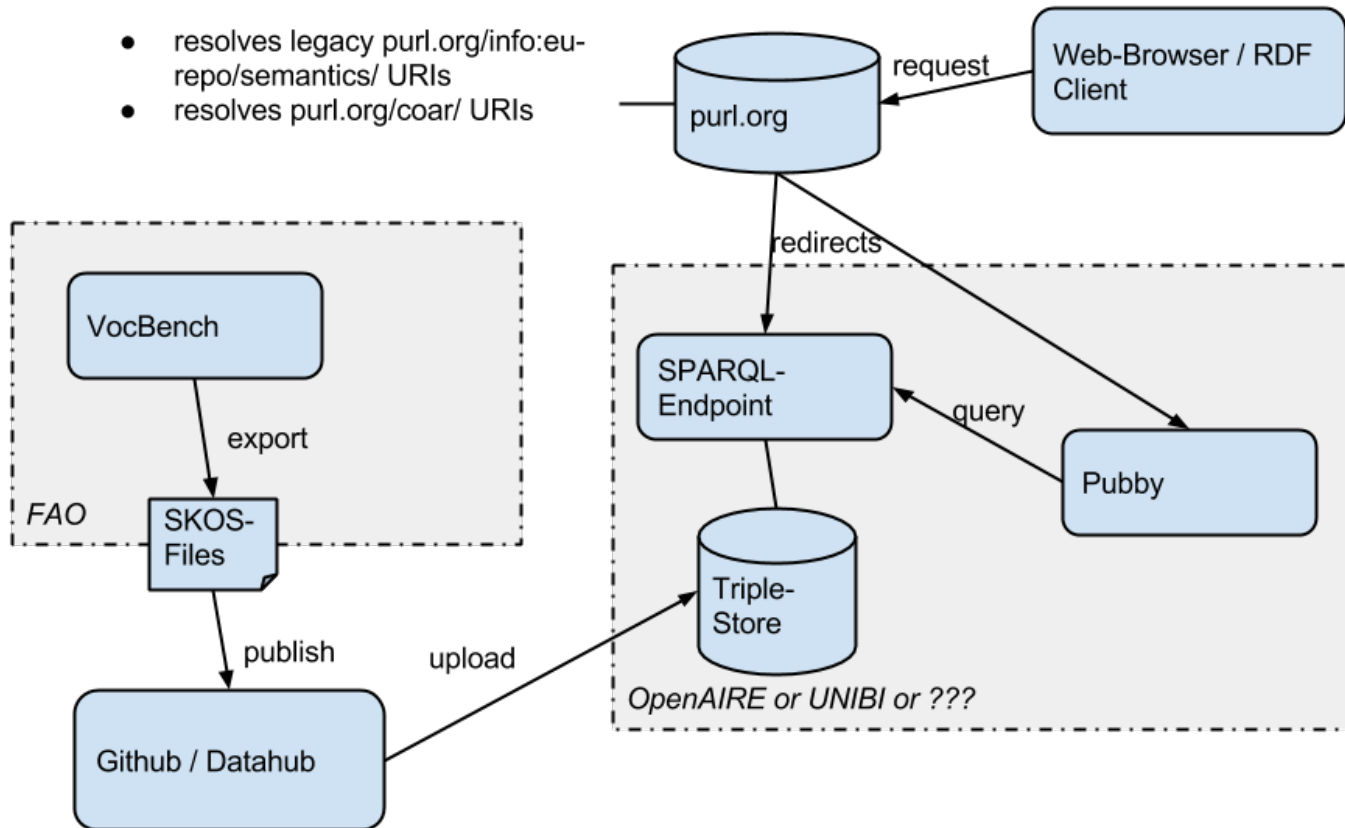
Terms (20) Definition (1) Attribute (0) Relationship (0) Alignments (10) Note (0) Image (0)

+ Add new alignment

Alignment	
skos:broadMatch	<input type="checkbox"/> http://www.eurocris.org/ontologies/semcerif/1.3#Journal
	<input type="checkbox"/> http://www.eurocris.org/ontologies/semcerif/1.3#JournalArticle
	<input type="checkbox"/> http://aginfra.eu/voc/aginfra/c_1400817529654
skos:exactMatch	<input type="checkbox"/> http://purl.org/eprint/type/JournalArticle
	<input type="checkbox"/> http://purl.org/info:eu-repo/semantics/article
	<input type="checkbox"/> http://purl.org/ontology/bibo/AcademicArticle
skos:narrowMatch	<input type="checkbox"/> http://www.eurocris.org/ontologies/semcerif/1.3#JournalArticleAbstract
	<input type="checkbox"/> http://www.eurocris.org/ontologies/semcerif/1.3#JournalArticleReview
skos:relatedMatch	<input type="checkbox"/> http://purl.org/eprint/type/SubmittedJournalArticle
	<input type="checkbox"/> http://purl.org/eprint/type/JournalItem

Technical Implementation

- resolves legacy purl.org/info:eu-repo/semantics/ URIs
- resolves purl.org/coar/ URIs



Using Pubby as Linked Data Frontend (demonstrator)

Concept “working paper”

C_8042 at COAR
http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/c_8042

skos-xl:altLabel	<ul style="list-style-type: none"><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_3750><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_6fc7><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_afeb><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_b63d><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_cd59><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_fr_026436c6><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_fr_2ad31372><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_fr_8671ca2d><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_fr_cadbad49><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_it_4446dc0>
skos:broadMatch	<ul style="list-style-type: none"><http://purl.org/dc/dcmitype/Text><http://purl.org/ontology/bibo/Document>
skos:definition	<ul style="list-style-type: none"><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/def_d2db>
skos:exactMatch	<ul style="list-style-type: none"><http://aginfra.eu/voc/aginfra/c_1400818040361><http://purl.org/eprint/type/WorkingPaper><http://purl.org/info:eu-repo/semantics/workingPaper><http://purl.org/spar/fabio/WorkingPaper><http://www.eurocris.org/ontologies/semcerif/1.3#WorkingPaper>
skos:inScheme	<ul style="list-style-type: none"><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type>
dcterms:modified	<ul style="list-style-type: none">2015-06-03T21:58:05Z (xsd:dateTime)
skos-xl:prefLabel	<ul style="list-style-type: none"><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_16f4><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_b9d3><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_d811><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_de_b2191663><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_fr_75406f6f><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_it_8bce0f63>
skos:topConceptOf	<ul style="list-style-type: none"><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type>
rdf:type	<ul style="list-style-type: none">skos:Concept

Concept Definition

def_d2db at COAR Vocabularies
http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/def_d2db

Property	Value
is ?definition of	<ul style="list-style-type: none"><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/c_8042>
?value	<ul style="list-style-type: none">An unpublished paper, usually circulated privately among a small group of peers, to provide information or with a request for comments or editorial improvement. (en)

English Label

xl_16f4 at COAR Vocabularies
http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/xl_16f4

Property	Value
?literalForm	<ul style="list-style-type: none">working paper (en)
is ?prefLabel of	<ul style="list-style-type: none"><http://openaire.ub.uni-bielefeld.de:8480/pubby/resource_type/c_8042>
?type	<ul style="list-style-type: none"><http://www.w3.org/2008/05/skos-xl#Label>



Features

- definition of a set of concepts
- concepts assigned persistent identifiers
- labelled in various languages, starting with
 - english, french, spanish, chinese, russian, italian, ...
- URL based relations to other concepts/terms in similar vocabularies (mapping)
- support of hierarchical structure of concepts

1st level concept	2nd level concept	3rd level concept
image		
image	still image	
image	moving image	
image	moving image	video



- **resource types**
 - describing the genre of a research resource
 - almost stable for first public release
- **access mode**
 - describing the mode of ‘openness’ of a resource
 - pending
- **version**
 - expressing a specific version of a resource
 - pending
- **date type**
 - describing an event in the lifecycle of a resource
 - pending
- **dictionary on classification schemes**



- **Repository User Interface**
 - multilingual labels in controlled lists,
 - e.g. publication type
- **Making controlled values consistent across platforms in OAI metadata, thereby**
 - reduce normalization efforts for aggregators
 - meet regional and funder guidelines on OA metadata
- **publish linked open data using concept URIs of shared controlled vocabularies**



Let's Start Discussion

Our aim:

- create / maintain internationally recognized vocabularies for OA repositories

Requires:

- widespread uptake in the repository community

By ideally:

- support in repository software implementation



More Information

- About the COAR Interest Group on Controlled Vocabularies
 - <http://purl.org/coar/igcv>
- Get in contact
 - with the group leader:
jochen.schirrwagen@uni-bielefeld.de
 - with the COAR office:
office@coar-repositories.org

