

**AARON COLLIER**

**CARMEN MITCHELL**

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**HERE BE DRAGONS**

**A SYSTEM-WIDE  
PERSPECTIVE ON A DSPACE  
TO HYRAX MIGRATION**

**23 CAMPUSES**

500 – 250000 ITEMS

50 – 150

“DUBLIN CORE”

FIELDS

# DO YOU NEED A DEVELOPER?





YES

**WE'RE HERE TO HELP!**



**COMMUNITY**

**WE'RE NOT IN  
COLLECTIONS  
ANYMORE**

**SMDH**

## YOU FACE GREAT PERIL

- ▶ Fields abound
- ▶ Dirty Metadata
- ▶ Metadata profiling

# SO MANY FIELDS!

- ▶ 23 Metadata fields out-of-the-box in Hyrax (16 of which use Dublin core predicates)
- ▶ 227 Total Dublin core fields defined in Scholarworks
- ▶ 15:1 field mapping?

## SO MANY FIELDS!

<u>Field</u>	<u>Predicate</u>
resource_type	::RDF::Vocab::DC.type
creator	::RDF::Vocab::DC11.creator
contributor	::RDF::Vocab::DC11.contributor
description	::RDF::Vocab::DC11.description
keyword	::RDF::Vocab::DC11.relation
license	::RDF::Vocab::DC.rights
publisher	::RDF::Vocab::DC11.publisher
date_created	::RDF::Vocab::DC.created
subject	::RDF::Vocab::DC11.subject
language	::RDF::Vocab::DC11.language
identifier	::RDF::Vocab::DC.identifier
bibliographic_citation	::RDF::Vocab::DC.bibliographicCitation
source	::RDF::Vocab::DC.source
title	::RDF::Vocab::DC.title
date_uploaded	::RDF::Vocab::DC.dateSubmitted
date_modified	::RDF::Vocab::DC.modified

SO MANY FIELDS!

Field	Predicate
resource_type	::RDF::Vocab::DC.type
creator	::RDF::Vocab::DC11.creator
contributor	::RDF::Vocab::DC11.contributor
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publisher	::RDF::Vocab::DC11.publisher
date_created	::RDF::Vocab::DC.created
subject	::RDF::Vocab::DC11.subject
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bibliographic_citation	::RDF::Vocab::DC.bibliographicCitation
source	::RDF::Vocab::DC.source
title	::RDF::Vocab::DC.title
date_uploaded	::RDF::Vocab::DC.dateSubmitted
date_modified	::RDF::Vocab::DC.modified

DSPACE Dublin Core

- dc.type
- dc.genre
- dc.type.genre

SO MANY FIELDS!

<u>Field</u>	<u>Predicate</u>
resource_type	::RDF::Vocab::DC.type
creator	::RDF::Vocab::DC11.creator
contributor	::RDF::Vocab::DC11.contributor
description	::RDF::Vocab::DC11.description
keyword	::RDF::Vocab::DC11.relation
license	::RDF::Vocab::DC.rights
publisher	::RDF::Vocab::DC11.publisher
date_created	::RDF::Vocab::DC.created
subject	::RDF::Vocab::DC11.subject
language	::RDF::Vocab::DC11.language
identifier	::RDF::Vocab::DC.identifier
bibliographic_citation	::RDF::Vocab::DC.bibliographicCitation
source	::RDF::Vocab::DC.source
title	::RDF::Vocab::DC.title
date_uploaded	::RDF::Vocab::DC.dateSubmitted
date_modified	::RDF::Vocab::DC.modified

DSPACE Dublin Core

dc.contributor  
dc.contributor.Interviewee  
dc.contributor.Interviewer  
dc.contributor.Narrator  
dc.contributor.Transcriptionist  
dc.contributor.advisor  
dc.contributor.author  
dc.contributor.artist  
dc.contributor.begindate  
dc.contributor.biography  
dc.contributor.committeeMember  
dc.contributor.committeemember  
dc.contributor.contact  
dc.contributor.contactrights  
dc.contributor.corporate  
dc.contributor.csuciauthor  
dc.contributor.datesactivedisplay  
dc.contributor.department  
dc.contributor.displayname  
dc.contributor.editor  
... AND MORE ....



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- ▶ **Dirty Metadata**
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SO MANY FIELDS!

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resource_type	::RDF::Vocab::DC.type
creator	::RDF::Vocab::DC11.creator
contributor	::RDF::Vocab::DC11.contributor
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keyword	::RDF::Vocab::DC11.relation
license	::RDF::Vocab::DC.rights
publisher	::RDF::Vocab::DC11.publisher
date_created	::RDF::Vocab::DC.created
subject	::RDF::Vocab::DC11.subject
language	::RDF::Vocab::DC11.language
identifier	::RDF::Vocab::DC.identifier
bibliographic_citation	::RDF::Vocab::DC.bibliographicCitation
source	::RDF::Vocab::DC.source
title	::RDF::Vocab::DC.title
date_uploaded	::RDF::Vocab::DC.dateSubmitted
date_modified	::RDF::Vocab::DC.modified

DSPACE Dublin Core

dc.contributor

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dc.contributor.Transcriptionist

dc.contributor.advisor

dc.contributor.author

dc.contributor.artist

dc.contributor.begindate

dc.contributor.biography

dc.contributor.committeeMember

dc.contributor.committeemember

dc.contributor.contact

dc.contributor.contactrights

dc.contributor.corporate

dc.contributor.csuciauthor

dc.contributor.datesactivedisplay

dc.contributor.department

dc.contributor.displayname

dc.contributor.editor

... AND MORE ....

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keyword	::RDF::Vocab::DC11.relation
license	::RDF::Vocab::DC.rights
publisher	::RDF::Vocab::DC11.publisher
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identifier	::RDF::Vocab::DC.identifier
bibliographic_citation	::RDF::Vocab::DC.bibliographicCitation
source	::RDF::Vocab::DC.source
title	::RDF::Vocab::DC.title
date_uploaded	::RDF::Vocab::DC.dateSubmitted
date_modified	::RDF::Vocab::DC.modified

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... AND MORE ....

## YOU FACE GREAT PERIL

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- ▶ Dirty Metadata
- ▶ **Metadata profiling**

### METADATA PROFILING

CONSISTS OF GATHERING FACTUAL INFORMATION ON THE DATA QUALITY, THAT CAN BE USED, FIRST, TO DECIDE WHICH **ACTIONS** TO TAKE IN ORDER TO ENHANCE THE QUALITY AND, SECOND, TO INFORM THE USERS ON THE **QUALITY** OF THE DATA THEY ARE CONSULTING.

Seth van Hoolang & Ruben Verborgh  
Linked Data for Libraries, Archives and Museums

## METADATA PROFILING – EXAMPLE

- ▶ Based on type

- ▶ `select distinct text_value from metadatavalue where metadata_field_id in (66, 109, 110);`

217 results returned!

# METADATA PROFILING – EXAMPLE

Abstract, Abstracts, Address, Aerial photographs, Agenda, Agendas, Animation, Animations, Article, Article (Post-print), Article (Pre-print), Articles, Artifact, Artistic Work, Assessment Tool, Assignment, Audio, Audio recording, Award Materials, Blueprint, Book, Book Introduction, Book chapter, Book chapters, Book entry, Book review, Books, Budgets, Bulletin, Business correspondence, Capstone, Capstone project, Catalogs, Chart, Codex, Collection, Conference Papers, Conference materials, Conference papers, Conference proceedings, Conference program, Contract, Course Material, Course Materials, Course catalog, Creative Works, Dataset, Diagram, Dissertatiion, Dissertation, Dissertations, Documents, Drama, Drawing, Drill and Practice, Empirical Research, Examination, Executive Summary, Exercise, Field Notes, Flyers, Graduate Project, Graduate project, Hybrid/Blended Course, Image, Image, 3-D, Index, Interactive Resource, Internal report, Interview, Interview Session, Interviews, Journal, Journal Article, Journal Issue, Journal article, Journal issue, Journals, Learning Object, Lecture, Letters, Liner notes, Magazines, Map, Meeting minutes, Memorandums, Minutes, Mixed Media, Monograph, Moving Image, Musical Score, Narrative Text, Narrative text, News release, Newsletter, Newsletters, Newspaper, Newspapers, Online Course, Online Course Module, Open Textbook, OpenTextbook, Other, Painting, Pamphlet, Panels, Peer Reviewed Article, Periodical, Personal correspondence, Photograph, Photographs, Picture / Photo, Plan or blueprint, Plans/Blueprints, Poems, Policies, Policy draft, Post-print, Postcard, Postcards, Poster, Posters, Postprint, Pre-print, Preface, Preprint, Presentation, Presentations, Press releases, Print, Procedures, Proceedings, Project, Proposals, Published Article, Published article, QOLT 1.8, Recording, musical, Recording, oral, Reference Material, Registers (Lists), Report, Reports, Resolutions, Review, Reviews, Scrapbooks, Script, Sculpture, Self Assessment, Simulation, Slides, Software, Speeches, Sports, Student Publication, Student Research, Syllabus, Table, Technical Report, Text, Theses, Thesis, Thesis Project, Transcript, Transcripts, Translations, Tutorial, University/Department Report (Unpublished), Video, Video recording, Web document, Web page, Workbook, Working Paper, application/pdf, cartoon humorous, casket, cathedrals, chapels, diagram, dissertation, drawing, eTextbook, en\_US, ephemera, exam, exercise, experiment, figure, graph, image, index, lecture, mural painting, narrative text, other, painting, pamphlet, photograph, print, program, questionnaire, relief sculpture, reliquary, self assessment, slide, sound, stained glass, statuette, syllabus, table, text, textile, textiles, thesis, work



# METADATA PROFILING – EXAMPLE

Abstract, Abstracts, Address, Aerial photographs, Agenda, Agendas, Animation, Animations, **Article, Article (Post-print), Article (Pre-print), Articles**, Artifact, Artistic Work, Assessment Tool, Assignment, Audio, Audio recording, Award Materials, Blueprint, Book, Book Introduction, Book chapter, Book chapters, Book entry, Book review, Books, Budgets, Bulletin, Business correspondence, Capstone, Capstone project, Catalogs, Chart, Codex, Collection, Conference Papers, Conference materials, Conference papers, Conference proceedings, Conference program, Contract, Course Material, Course Materials, Course catalog, Creative Works, Dataset, Diagram, Dissertatiion, Dissertation, Dissertations, Documents, Drama, Drawing, Drill and Practice, Empirical Research, Examination, Executive Summary, Exercise, Field Notes, Flyers, Graduate Project, Graduate project, Hybrid/Blended Course, Image, Image, 3-D, Index, Interactive Resource, Internal report, Interview, Interview Session, Interviews, Journal, Journal Article, Journal Issue, Journal article, Journal issue, Journals, Learning Object, Lecture, Letters, Liner notes, Magazines, Map, Meeting minutes, Memorandums, Minutes, Mixed Media, Monograph, Moving Image, Musical Score, Narrative Text, Narrative text, News release, Newsletter, Newsletters, Newspaper, Newspapers, Online Course, Online Course Module, Open Textbook, OpenTextbook, Other, Painting, Pamphlet, Panels, Peer Reviewed Article, Periodical, Personal correspondence, Photograph, Photographs, Picture / Photo, Plan or blueprint, Plans/Blueprints, Poems, Policies, Policy draft, Post-print, Postcard, Postcards, Poster, Posters, Postprint, Pre-print, Preface, Preprint, Presentation, Presentations, Press releases, Print, Procedures, Proceedings, Project, Proposals, Published Article, Published article, QOLT 1.8, Recording, musical, Recording, oral, Reference Material, Registers (Lists), Report, Reports, Resolutions, Review, Reviews, Scrapbooks, Script, Sculpture, Self Assessment, Simulation, Slides, Software, Speeches, Sports, Student Publication, Student Research, Syllabus, Table, Technical Report, Text, Theses, Thesis, Thesis Project, Transcript, Transcripts, Translations, Tutorial, University/Department Report (Unpublished), Video, Video recording, Web document, Web page, Workbook, Working Paper, application/pdf, cartoon humorous, casket, cathedrals, chapels, diagram, dissertation, drawing, eTextbook, en\_US, ephemera, exam, exercise, experiment, figure, graph, image, index, lecture, mural painting, narrative text, other, painting, pamphlet, photograph, print, program, questionnaire, relief sculpture, reliquary, self assessment, slide, sound, stained glass, statuette, syllabus, table, text, textile, textiles, thesis, work

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# METADATA PROFILING – EXAMPLE

### ► Usage of type

- `select text_value, count(*) from metadatavalue where metadata_field_id in (66, 109, 110) group by text_value;`

Type	Count
Thesis	27307
Image	9254
syllabus	9101
Text	6948
Other	4622
Syllabus	4295
Article	2912
Project	2443
Theses	1407
Dissertation	1001

# METADATA PROFILING – EXAMPLE

- ▶ A narrower (campus) focus
- ▶ Only 16 types!
- ▶ But really, 4 types!
- ▶ Student Work, Faculty Works, Newspapers, and Creative Work

HOW DID WE SURFACE  
THESE ISSUES

# DSpace Metadata ( 110 )

[Home](#) / [Dspace Metadata](#)

Total items using field: 5752

Unique values for field: 63

Value	Count
Letters	1
Abstracts	41
Aerial photographs	1
Photographs	16
Dissertatiion	1
Proposals	13
Post-print	108

# Scholarworks @ CSU San Marcos

[Home](#) / [Dspace Communities](#) / [Scholarworks @ CSU San Marcos](#)

## ≡ Metadata Fields In Use

- [dc.advisor](#)
- [dc.contributor.advisor](#)
- [dc.contributor.author](#)
- [dc.contributor.committeemember](#)
- [dc.contributor.sponsor](#)
- [dc.contributor](#)
- [dc.creator](#)
- [dc.date.accessioned](#)
- [dc.date.available](#)
- [dc.date.created](#)
- [dc.date.embargountil](#)
- [dc.date.issued](#)
- [dc.date.submitted](#)
- [dc.date.updated](#)
- [dc.date](#)
- [dc.description.abstract](#)
- [dc.description.embargoterm](#)



# Metadata Profiler

[Home](#) / [Dspace Communities](#) / [Scholarworks @ CSU San Marcos](#)

## ≡ dc.type

- [Article](#)
- [Award Materials](#)
- [Creative Works](#)
- [Dissertation](#)
- [Empirical Research](#)
- [Mixed Media](#)
- [Newspaper](#)
- [Other](#)
- [Poster](#)
- [Project](#)
- [Report](#)
- [Thesis](#)
- [ephemera](#)
- [painting](#)
- [photograph](#)
- [textiles](#)

## Sub field values

--

≡ dc.type

- [Article](#)
- [Award Materials](#)
- [Creative Works](#)
- [Dissertation](#)
- [Empirical Research](#)
- [Mixed Media](#)
- [Newspaper](#)
- [Other](#)
- [Poster](#)
- [Project](#)
- [Report](#)
- [Thesis](#)
- [ephemera](#)
- [painting](#)
- [photograph](#)
- [textiles](#)

Thesis

- [dc.contributor](#)
- [dc.contributor.advisor](#)
- [dc.contributor.author](#)
- [dc.date.accessioned](#)
- [dc.date.available](#)
- [dc.date.created](#)
- [dc.date.issued](#)
- [dc.date.submitted](#)
- [dc.identifier](#)
- [dc.identifier.uri](#)
- [dc.description](#)
- [dc.description.abstract](#)
- [dc.description.provenance](#)
- [dc.description.sponsorship](#)
- [dc.format.extent](#)
- [dc.format.medium](#)
- [dc.language.iso](#)
- [dc.subject](#)
- [dc.subject.lcc](#)
- [dc.title](#)
- [dc.title.alternative](#)
- [dc.type](#)
- [dc.date.updated](#)
- [dc.contributor.sponsor](#)
- [dc.kaltura.mapping](#)
- [dc.description.embargoterm](#)
- [dc.kaltura.playlist](#)
- [dc.contributor.committeemember](#)
- [dc.note](#)
- [dc.date.embargountil](#)

## ≡ dc.type

- Article
- Award Materials
- Creative Works
- Dissertation
- Empirical Research
- Mixed Media
- Newspaper
- Other
- Poster
- Project
- Report
- Thesis
- ephemera
- painting
- photograph
- textiles

## Thesis

- dc.contributor
- dc.contributor.advisor
- dc.contributor.author
- dc.date.accessioned
- dc.date.available
- dc.date.created
- dc.date.issued
- dc.date.submitted
- dc.identifier
- dc.identifier.uri
- dc.description
- dc.description.abstract
- dc.description.provenance
- dc.description.sponsorship
- dc.format.extent
- dc.format.medium
- dc.language.iso
- dc.subject
- dc.subject.lcc
- dc.title
- dc.title.alternative
- dc.type
- dc.date.updated
- dc.contributor.sponsor
- dc.kaltura.mapping
- dc.description.embargoterm
- dc.kaltura.playlist
- dc.contributor.committeemember
- dc.note
- dc.date.embargountil

## Sub field values

- Biological Science
- Biological Sciences
- Biology
- Biotechnology
- Brown, Tracey
- Cline, Zulmara
- College of Education
- College of Education, Health & Human Services
- College of Education, Health, and Human Services
- Communicative Sciences and Disorders
- Computer Science
- Computer Science and Information Systems
- Computer science
- Cybersecurity
- Department of Nursing
- Education
- Education, Communicative Sciences and Disorders
- Educational Administration
- Graduate Nursing - Extended Learning
- History
- Literate & Writing Studies
- Literature & Writing
- Literature & Writing Studies
- Literature and Writing
- Literature and Writing Studies
- Master of Arts in Sociological Practice
- Master's of Arts in Sociological Practice

DECISIONS

DECISIONS

DECISIONS

WHAT

TO

DO?

# AIP PACKAGER GEM

► <https://github.com/aaron-collier/aip>

DSpace ITEM:

```
desc_metadata_prefix: "//xmlns:mdWrap[@OTHERMDTYPE='DIM']/xmlns:xmlData/  
dim:dim[@dspaceType='ITEM']"  
namespace:  
  xmlns: http://www.loc.gov/METS/  
  dim: http://www.dspace.org/xmlns/dspace/dim
```

# Dublin Core Field Mapping

```
fields:  
  abstract: # Thesis  
    xpath:  
      - "/dim:field[@mdschema='dc'][@element='description'][@qualifier='abstract']"  
    type: Array  
  advisor:  
    xpath:  
      - "/dim:field[@mdschema='dc'][@element='advisor'][not(@qualifier)]"  
      - "/dim:field[@mdschema='dc'][@element='contributor'][@qualifier='advisor']"  
    type: Array
```

## AIP PACKAGER GEM

► <https://github.com/aaron-collier/aip>

DSpace ITEM:

```
desc_metadata_prefix: "//xmlns:mdWrap[@OTHERMDTYPE='DIM']/xmlns:xmlData/  
dim:dim[@dspaceType='ITEM']"
```

namespace:

```
xmlns: http://www.loc.gov/METS/
```

```
dim: http://www.dspace.org/xmlns/dspace/dim
```

# Dublin Core Field Mapping

fields:

```
abstract: # Thesis
```

xpath:

```
- "/dim:field[@mdschema='dc'][@element='description'][@qualifier='abstract']"
```

type: Array

```
advisor:
```

xpath:

```
- "/dim:field[@mdschema='dc'][@element='advisor'][not(@qualifier)]"
```

```
- "/dim:field[@mdschema='dc'][@element='contributor'][@qualifier='advisor']"
```

type: Array

**Hyrax Work Property  
Name**

## AIP PACKAGER GEM

► <https://github.com/aaron-collier/aip>

DSpace ITEM:

```
desc_metadata_prefix: "//xmlns:mdWrap[@OTHERMDTYPE='DIM']/xmlns:xmlData/
dim:dim[@dspaceType='ITEM']"
namespace:
  xmlns: http://www.loc.gov/METS/
  dim: http://www.dspace.org/xmlns/dspace/dim
```

# Dublin Core Field Mapping

fields:

abstract: # Thesis

xpath:

```
- "/dim:field[@mdschema='dc'][@element='description'][@qualifier='abstract']"
```

type: Array

advisor:

xpath:

```
- "/dim:field[@mdschema='dc'][@element='advisor'][not(@qualifier)]"
- "/dim:field[@mdschema='dc'][@element='contributor'][@qualifier='advisor']"
```

type: Array

**AIP XPATH Query  
(From DSpace -  
Dubline Core)**



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type: Array

**Array => Multivalued  
String => Single Value**

# MORE TOOLS FOR YOU

- ▶ ScholarWorks wiki

- ▶ <https://calstate.atlassian.net/wiki/display/SCHOL>

- ▶ Metadata Profiling Dashboard\*

- ▶ <https://github.com/aaron-coller/departure>

- ▶ SWORD\*

- ▶ <http://github.com/aaron-coller/sword>

- ▶ Dspace2hydra

- ▶ <https://github.com/osulp/dspace2hydra>



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