The Strongest Link: Libraries and the Web of Linked Data

Click to edit Master subtitle style

Gillian Byrne & Lisa Goddard
Memorial University of Newfoundland

Emerging Technologies in Academic Libraries 2010
Trondheim, Norway - April 2010

What is Linked Data?

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- To employ the RDF data model to publish structured data on the Web.

- To [use http URIs] to set explicit RDF links between data items within different data sources.

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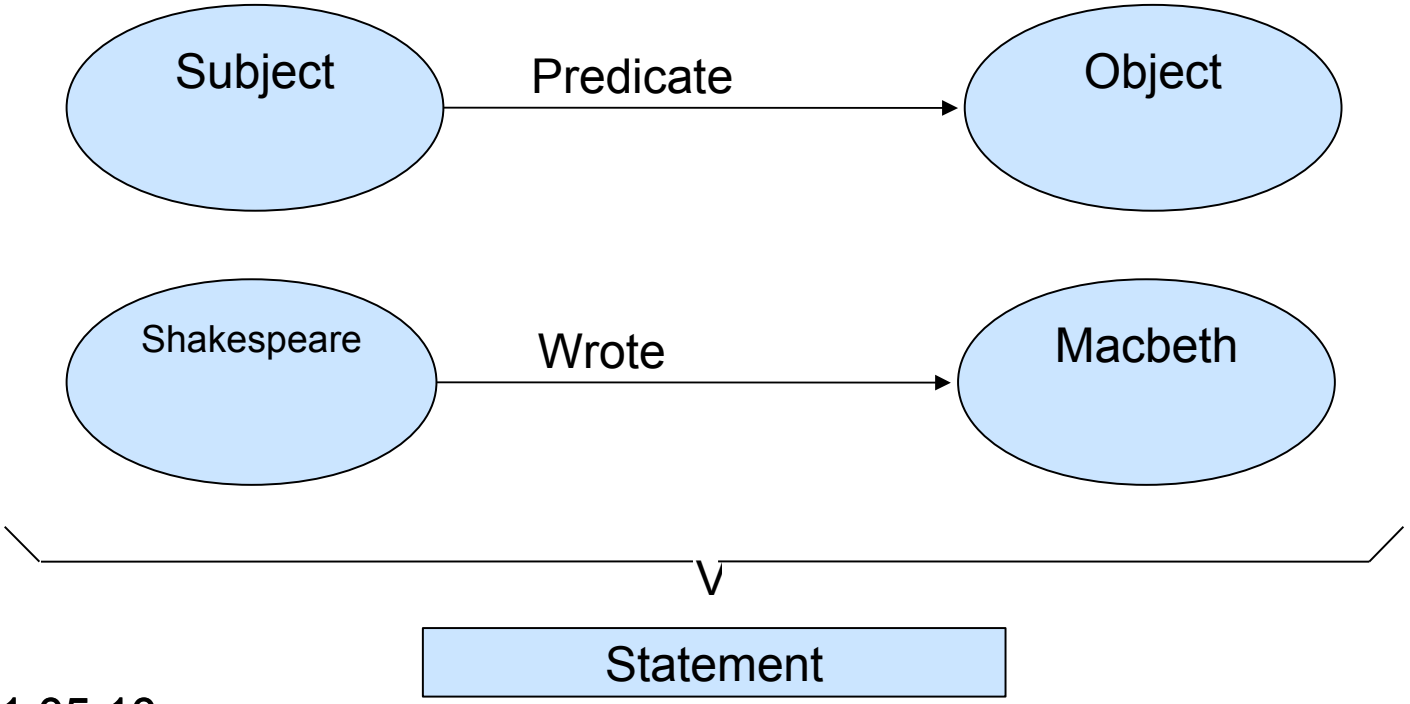
RDF Triples

Data model for writing simple statements about web objects.

RDF statements are written as “triples”.



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RDF Triples

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Subject	Predicate	Object
Shakespeare	Wrote	King Lear
Shakespeare	Wrote	Macbeth
Anne Hathaway	Married	Shakespeare
Shakespeare	Lived in	Stratford
Stratford	Is in	England
Macbeth	Set in	Scotland
England	Part of	UK
Scotland	Part of	UK

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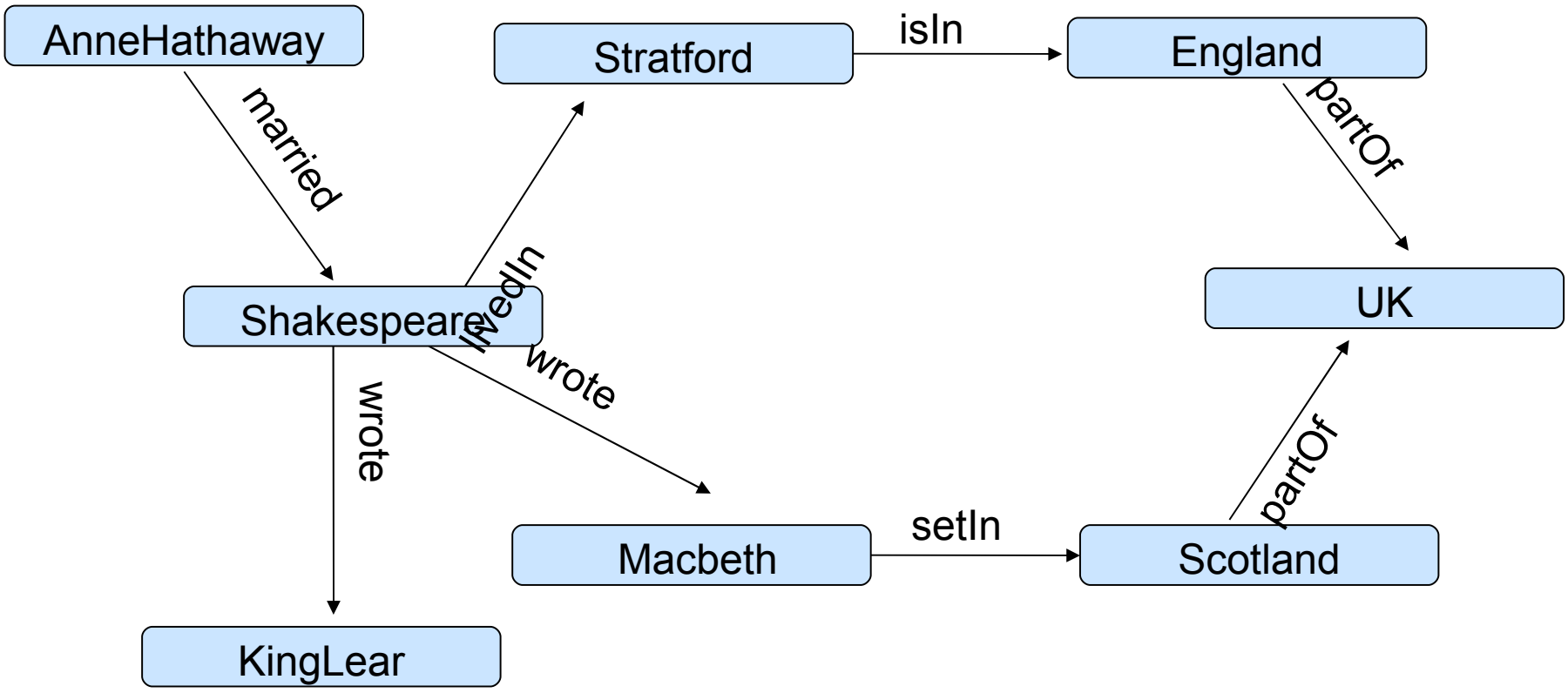
RDF Graph: A Semantic Net



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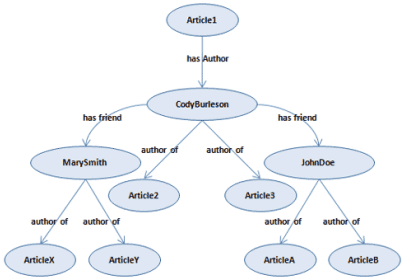
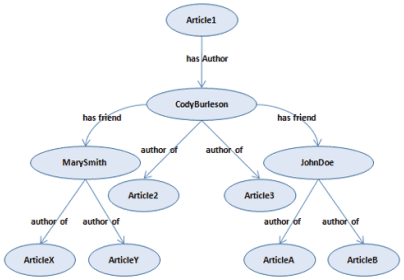
Linking Data

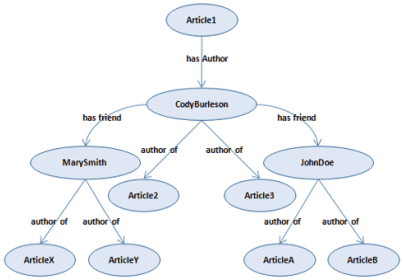


The LIBRARY of CONGRESS

The New York Times



BBC



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Linking Data

The LIBRARY of CONGRESS

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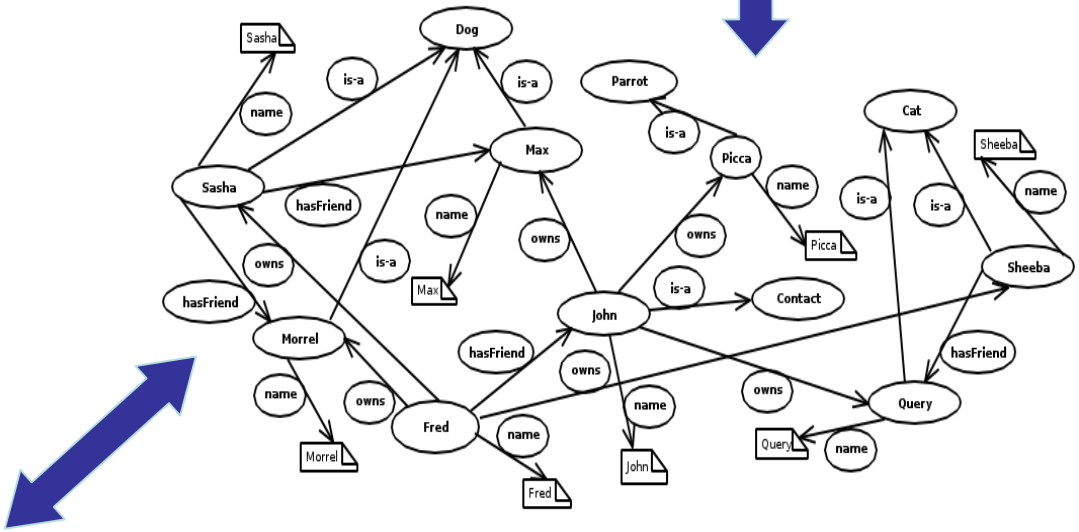
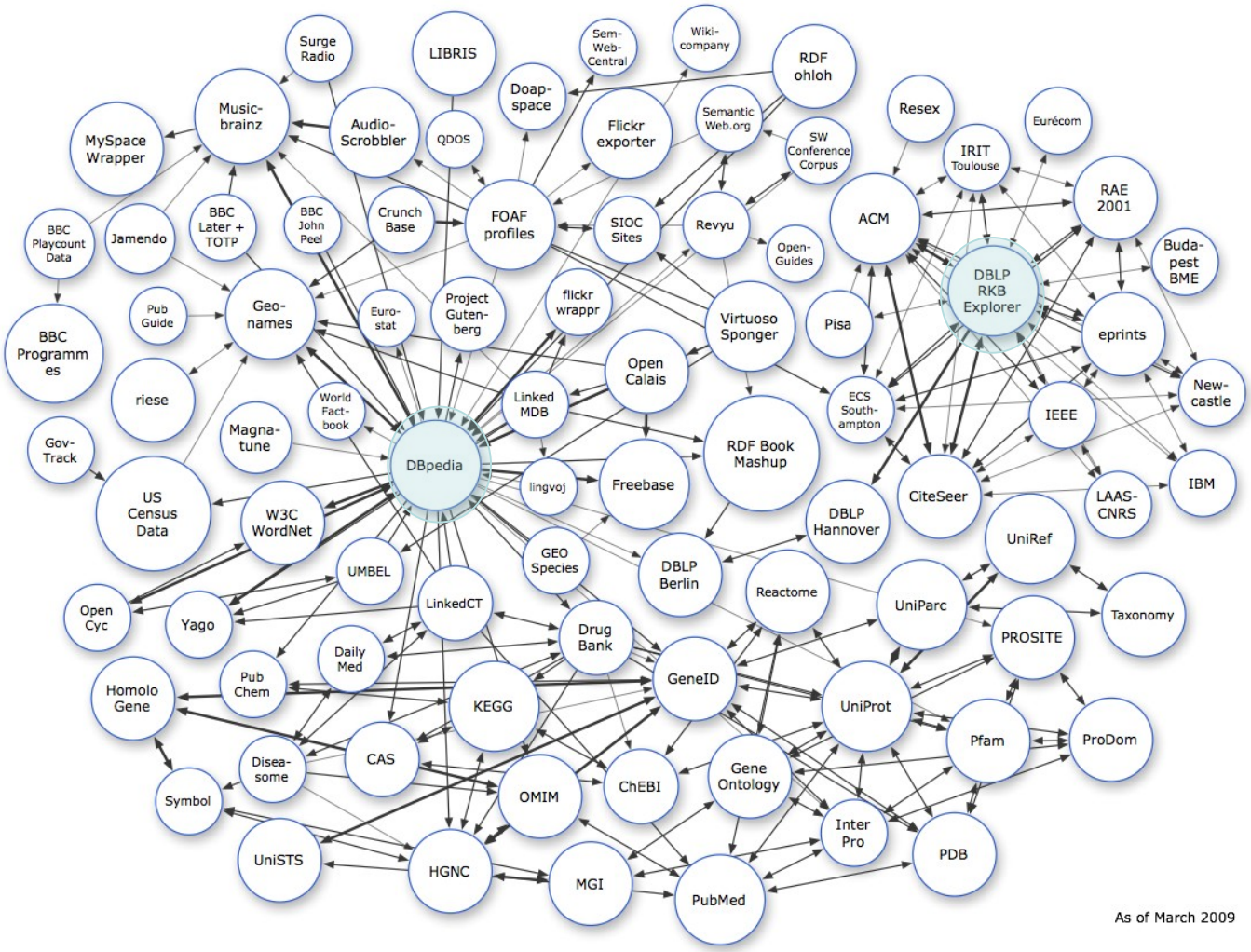


The New York Times

BBC

Linking Hubs



As of March 2009

11.

RDF Challenges

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- Identify people, places, things, and concepts in unstructured text documents
- Named entity extraction
- Term disambiguation

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Library RDF Converters

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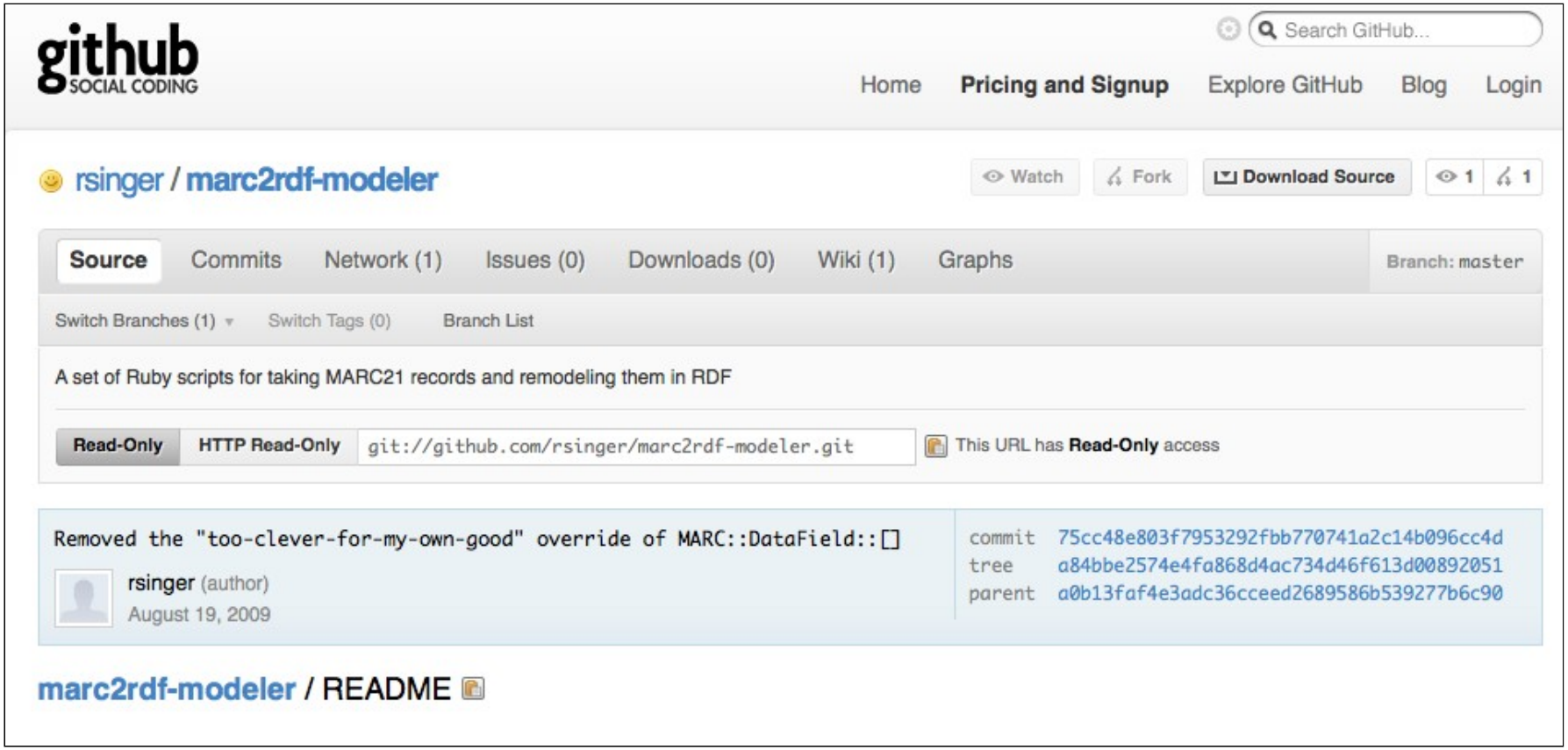
MARC2RDF Modeler



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MARC2RDF Output

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<rdf:Description xmlns:n1="http://RDVocab.info/Elements/"
xmlns:n2="http://purl.org/dc/terms/"
xmlns:n3=http://purl.org/dc/elements/1.1/
about="http://library.cca.edu/core/m/76079693">
<n1:statementOfResponsibility>J. Garth Taylor</n1:statementOfResponsibility>
<n2:contributor
rdf:resource="http://library.cca.edu/core/people/taylor_j_garth_1941-_james_garth"/>
<rdf:type rdf:resource="http://vocab.org/frbr/core#Manifestation"/>
<n2:type>Slide</n2:type>
<n2:date>1986</n2:date>
<n3:subject>Labrador</n3:subject>
<n2:subject rdf:resource="http://library.cca.edu/core/s/labrador#concept"/>

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Expressing Dublin Core metadata using the Resource Description Framework (RDF)

Creator:	Mikael Nilsson KMR Group, NADA, KTH (Royal Institute of Technology), Sweden Andy Powell Eduserv Foundation, UK Pete Johnston Eduserv Foundation, UK Ambjörn Naeve KMR Group, NADA, KTH (Royal Institute of Technology), Sweden
Date Issued:	2008-01-14
Identifier:	http://dublincore.org/documents/2008/01/14/dc-rdf/
Replaces:	http://dublincore.org/documents/2007/06/04/dc-rdf/
Replaces:	http://dublincore.org/documents/2002/07/31/dcmes-xml/
Replaces:	http://dublincore.org/documents/2002/05/15/dcq-rdf-xml/
Latest Version:	http://dublincore.org/documents/dc-rdf/
Status of Document:	This is a DCMI Recommendation.
Description of Document:	This document provides recommendations for expressing Dublin Core metadata using RDF, the Resource Description Framework.

OAI2RDF

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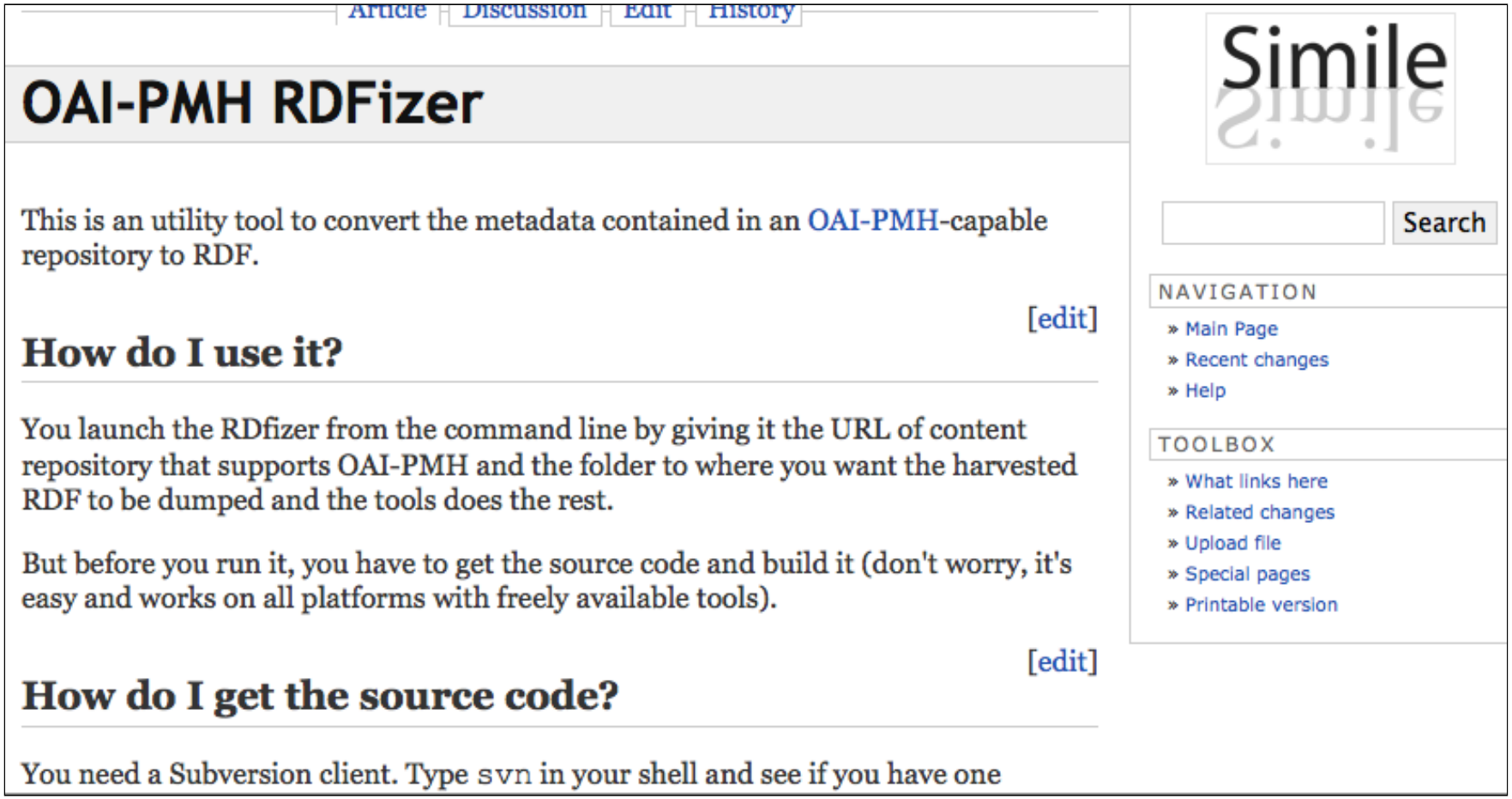

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OAI2RDF Output

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```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:default95="http://purl.org/dc/elements/1.1/">

<rdf:Description rdf:about="oai:collections.mun.ca:m_forbes/544">
        <default95:contributor>Forbes Family</default95:contributor>
        <default95:contributor>Glenn Deir, 1997</default95:contributor>
        <default95:date>1887</default95:date>
        <default95:description>1 photograph : b&amp;amp;w ; 9 x 6 cm</
default95:description>
        <default95:description>Irene (Matthews) Forbes, as a baby.</
default95:description>
<rdf:type rdf:resource="http://www.ontoweb.org/ontology/1#Publication"/>
```

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BibTeX to RDF

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bibtex2rdf - A configurable BibTeX to RDF Converter

Introduction

Many researchers use LaTeX to prepare their publications. They typically collect bibliographic references in the BibTeX format, because that way LaTeX can generate Reference lists automatically. In BibTeX, each reference is captured as one entry consiting of (tagged) fields. For an introduction to BibTeX see the references section. With the advent of the semantic web, several projects have started to translate this bibliographic information to RDF. bibtex2rdf is a highly configurable translator from BibTeX to RDF which allows to do exactly that. How it works and how to use it is explained in this document.

Usage

The most direct approach to understand how a program works is just to try it. Therefore, we start with the usage section.

bibtex2rdf is provided as jar file (the source code will be published soon). The current version is *1.0 beta 4*. Download it here. It is a command line tool and needs a Java JDK/JRE 1.4 as prerequisite. To translate `sample.bib` to `sample.rdf`, type

```
java -jar bibtex2rdf.jar sample.bib sample.rdf
```

The complete call syntax is `java -jar bibtex2rdf.jar [-schema <file>] [-baseuri <uri>] [-enc <enc>] <bibtex> [<output>]`. For parameter explanation, see the following table. The application generates a log file (`bibtex2rdf.log`) which contains all warnings and errors.

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Simile RDFizers

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[edit]

Ok, I'm interested, what RDFizers are there?

Here is the list of the RDFizers that we have built so far:

- JPEG -> RDF - scans a folder for JPEG files, parses the EXIF and IPCT metadata found in those files and dumps an RDF/N3 representation of it into a file.
- MARC/MODS -> RDF - transforms MARC records from Z39.2 format into MODS and then from MODS to an RDF representation of MODS.
- OAI-PMH -> RDF - harvests an OAI-PMH repository and transforms the captured metadata in an RDF representation thru pluggable XSLT stylesheets.
- OCW -> RDF - harvests metadata from the MIT OpenCourseWare web site and transforms it into an RDF representation of IEEE LOM.
- EMail -> RDF - transforms email mbox files into RDF/XML.
- BibTEX -> RDF - transforms BibTEX files into RDF/XML.
- POM -> RDF - transforms Maven POM (Project Object Model) files into RDF/N3.
- DEB -> RDF - extracts the metadata from a Debian software package and generates an RDF representation.
- CRW -> RDF - extracts the metadata from a Canon RAW image file and generates an RDF representation.
- Flat -> RDF - converts classic unix text database files, like /etc/passwd, into RDF/N3.

http://www.mulgara.org/

Simile

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RDF Publishing Tools

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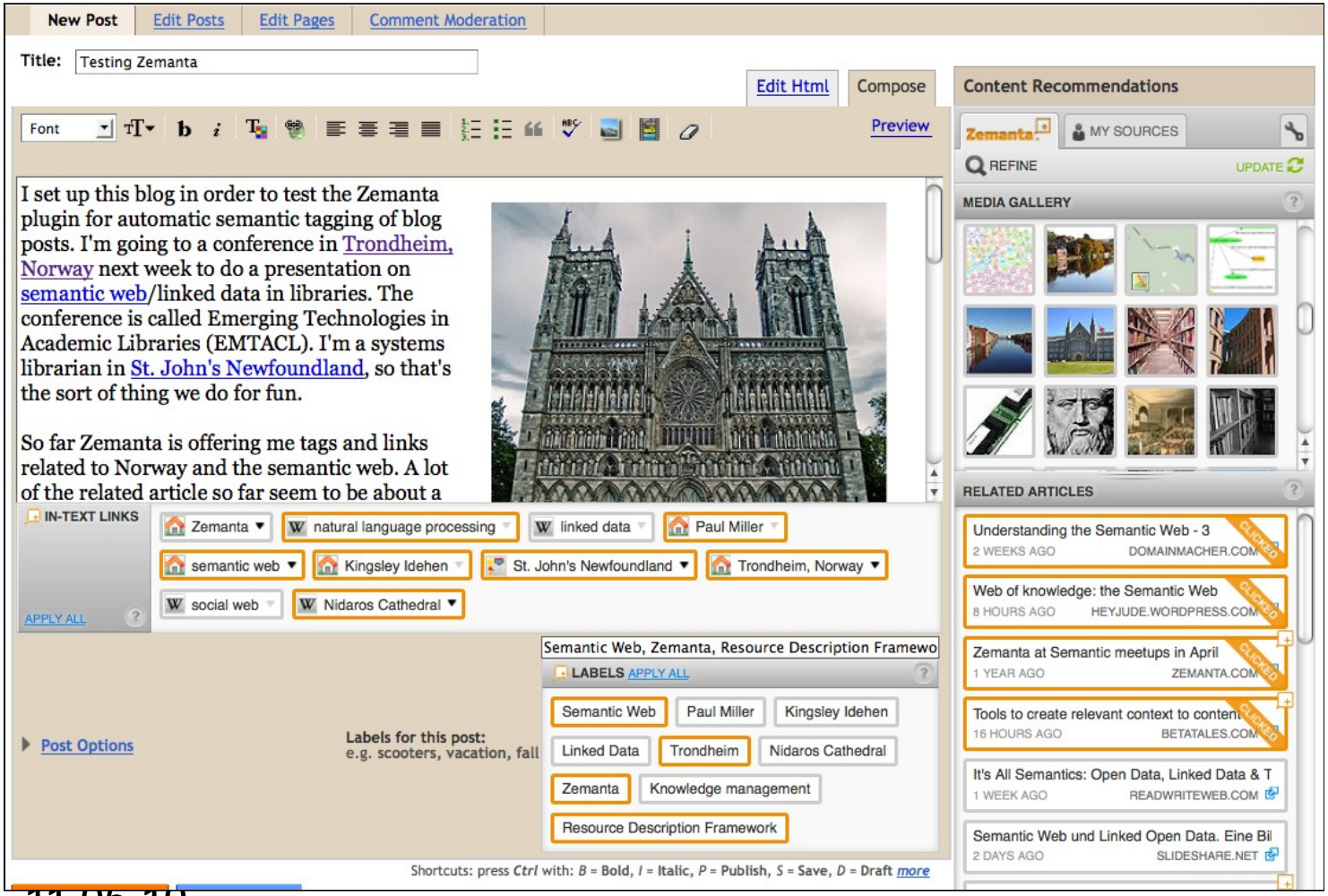
Semantic Blogging: Zemanta



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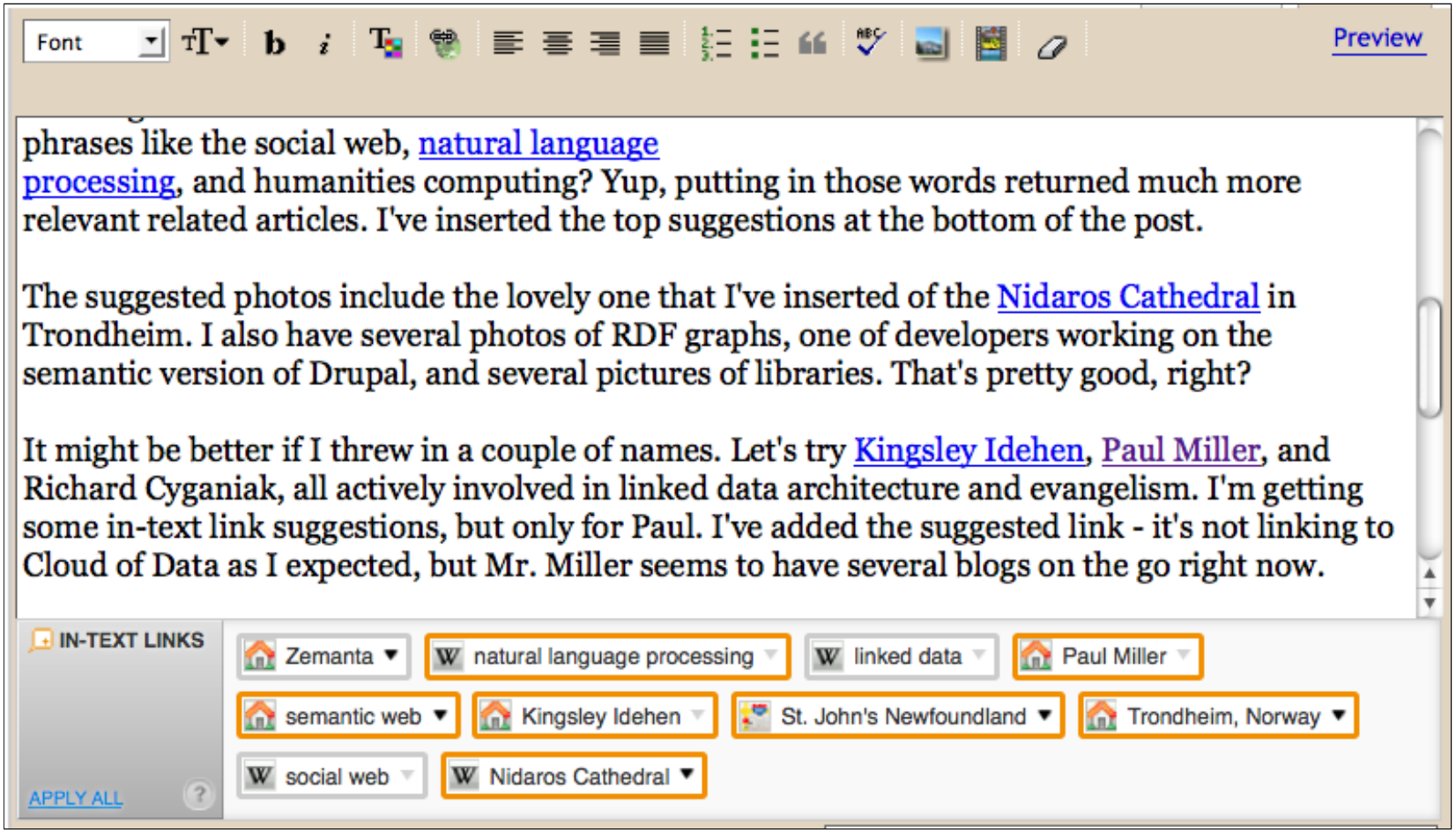
Semantic Blogging: Zemanta



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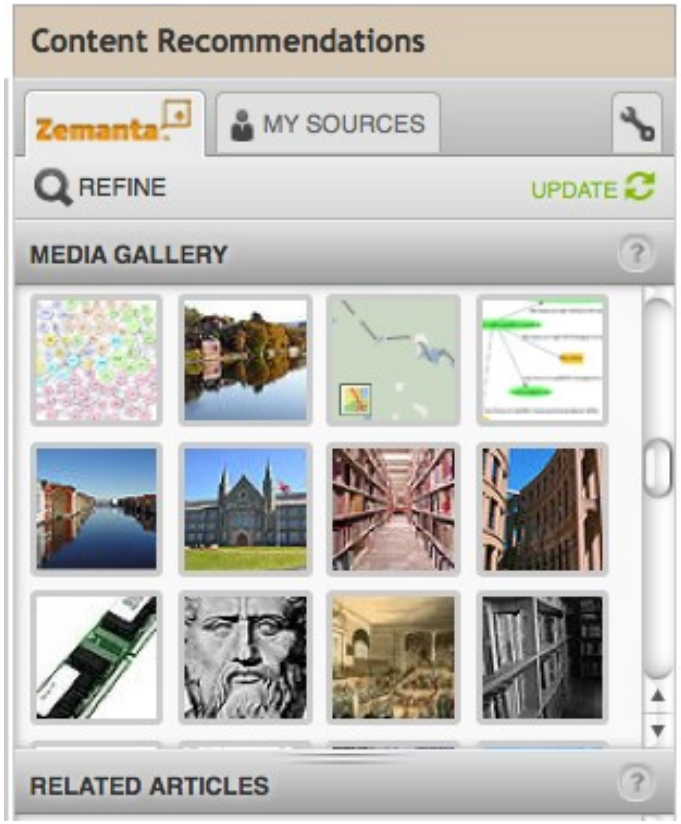
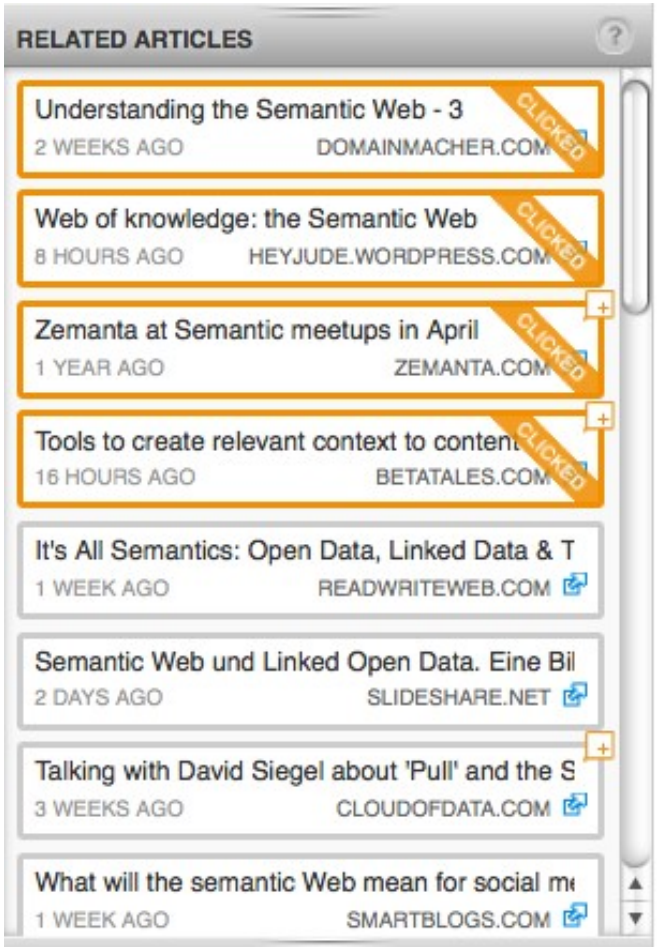
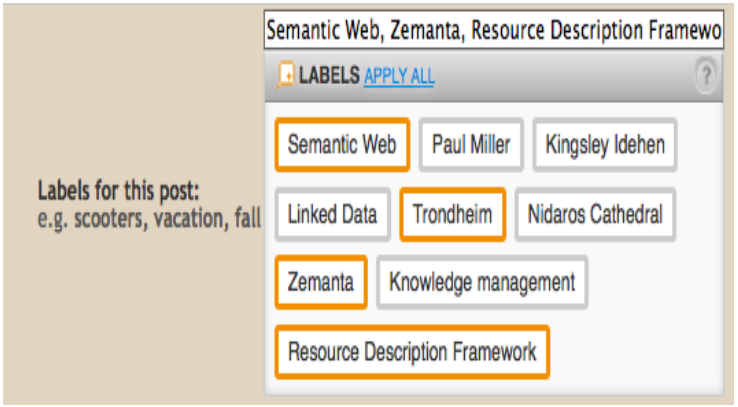


Related Media

Zemanta

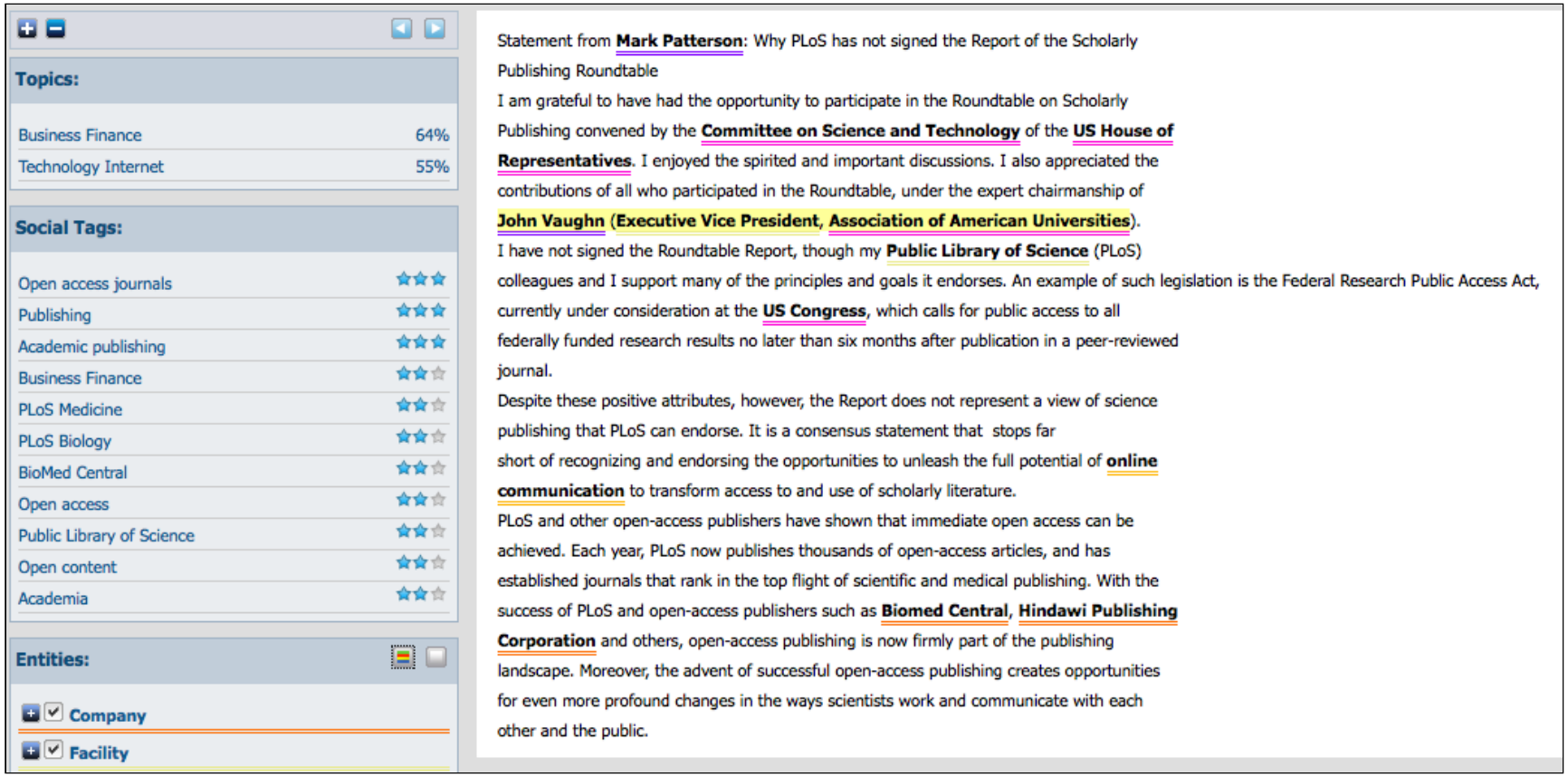
Related Articles





Related Tags

Calais Semantic Extraction



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Calais Semantic Extraction

Statement from **Mark Patterson**: Why PLoS has not signed the Report of the Scholarly Publishing Roundtable

I am grateful to have had the opportunity to participate in the Roundtable on Scholarly Publishing convened by the **Committee on Science and Technology** of the **US House of Representatives**. I enjoyed the spirited and important discussions. I also appreciated the contributions of all who participated in the Roundtable, under the expert chairmanship of **John Vaughn** (**Executive Vice President**, **Association of American Universities**).

I have not signed the Roundtable Report, though my **Public Library of Science** (PLoS) colleagues and I support many of the principles and goals it endorses. An example of such legislation is the Federal Research Public Access Act, currently under consideration at the **US Congress**, which calls for public access to all federally funded research results no later than six months after publication in a peer-reviewed journal.

Despite these positive attributes, however, the Report does not represent a view of science publishing that PLoS can endorse. It is a consensus statement that stops far short of recognizing and endorsing the opportunities to unleash the full potential of **online communication** to transform access to and use of scholarly literature.

PLoS and other open-access publishers have shown that immediate open access can be achieved. Each year, PLoS now publishes thousands of open-access articles, and has established journals that rank in the top flight of scientific and medical publishing. With the success of PLoS and open-access publishers such as **Biomed Central**, **Hindawi Publishing Corporation** and others, open-access publishing is now firmly part of the publishing landscape. Moreover, the advent of successful open-access publishing creates opportunities for even more profound changes in the ways scientists work and communicate with each other and the public.

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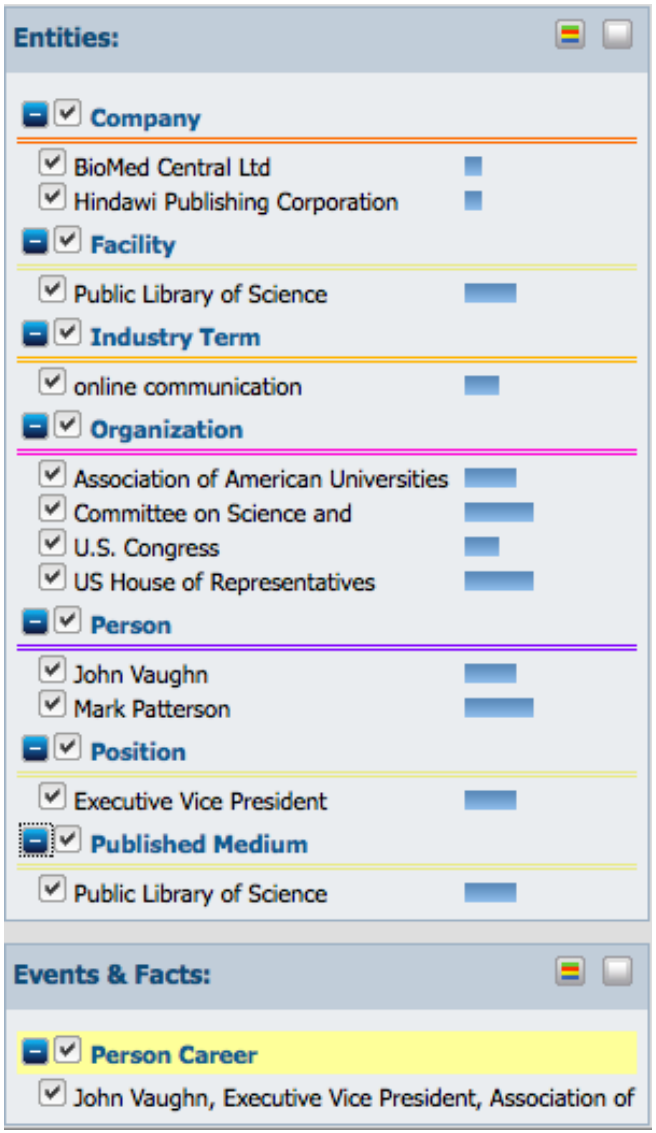
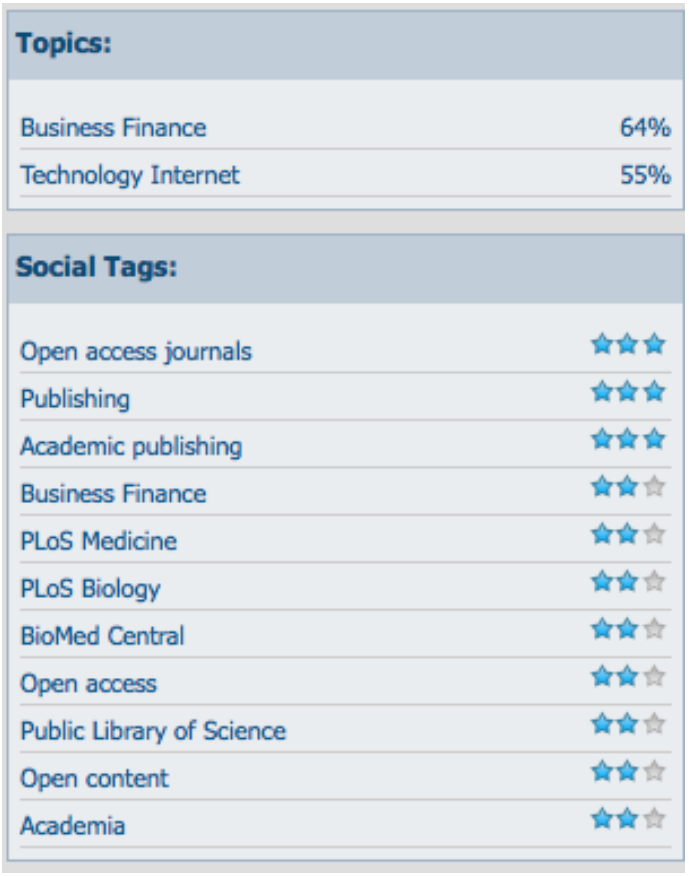


Entity Extraction

CALAIS
Powered by Thomson Reuters

Related Tags



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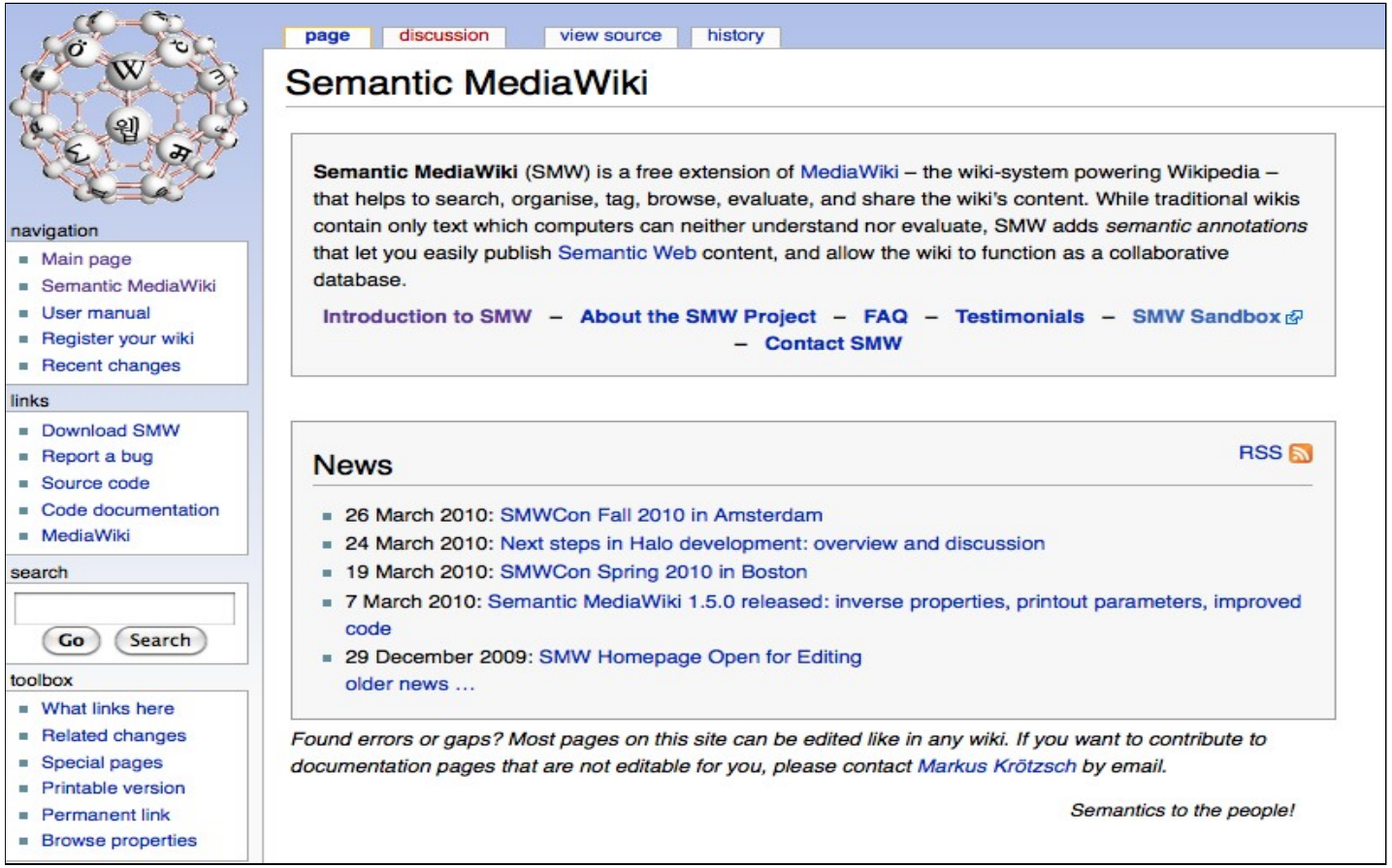
Semantic MediaWiki



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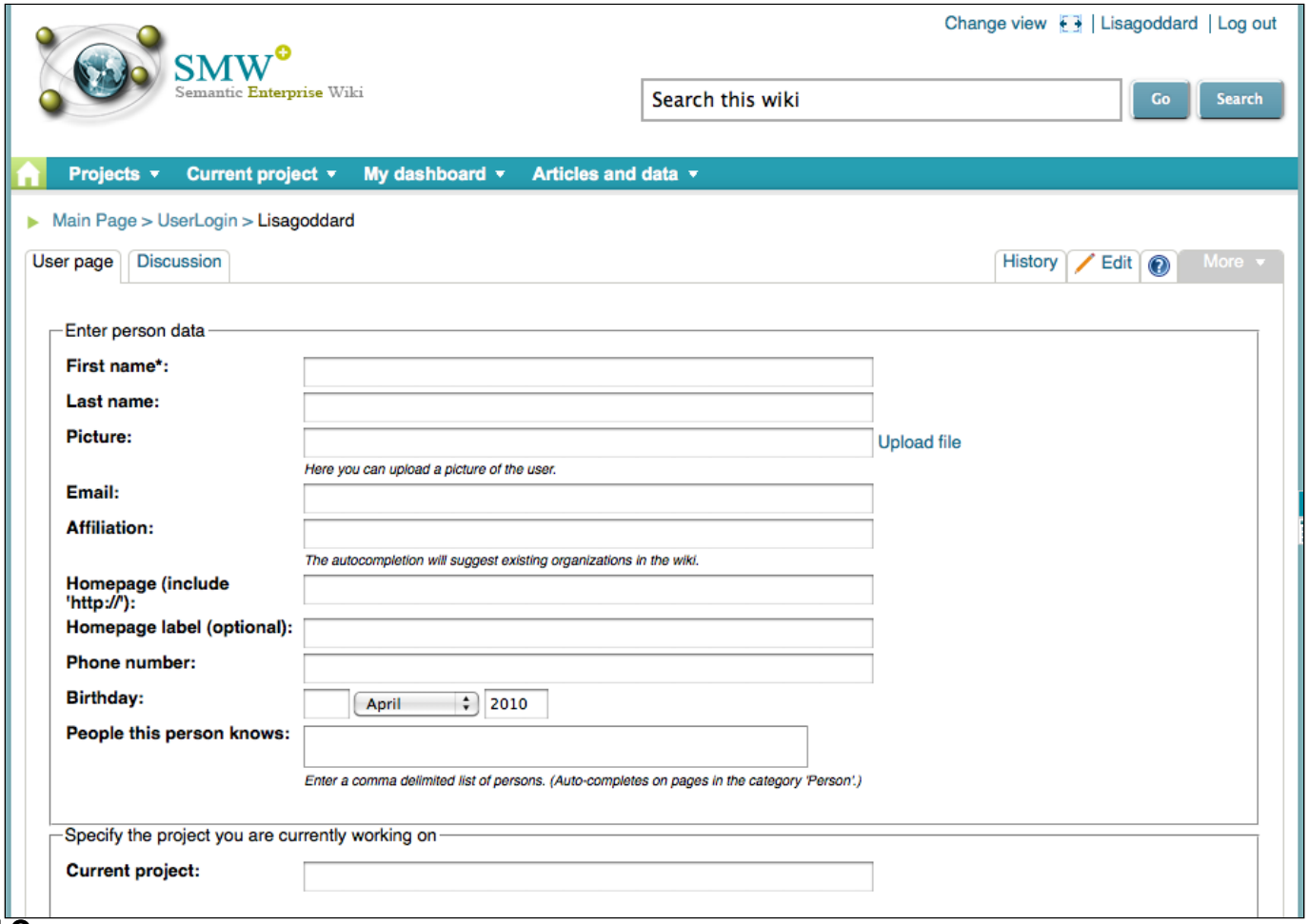

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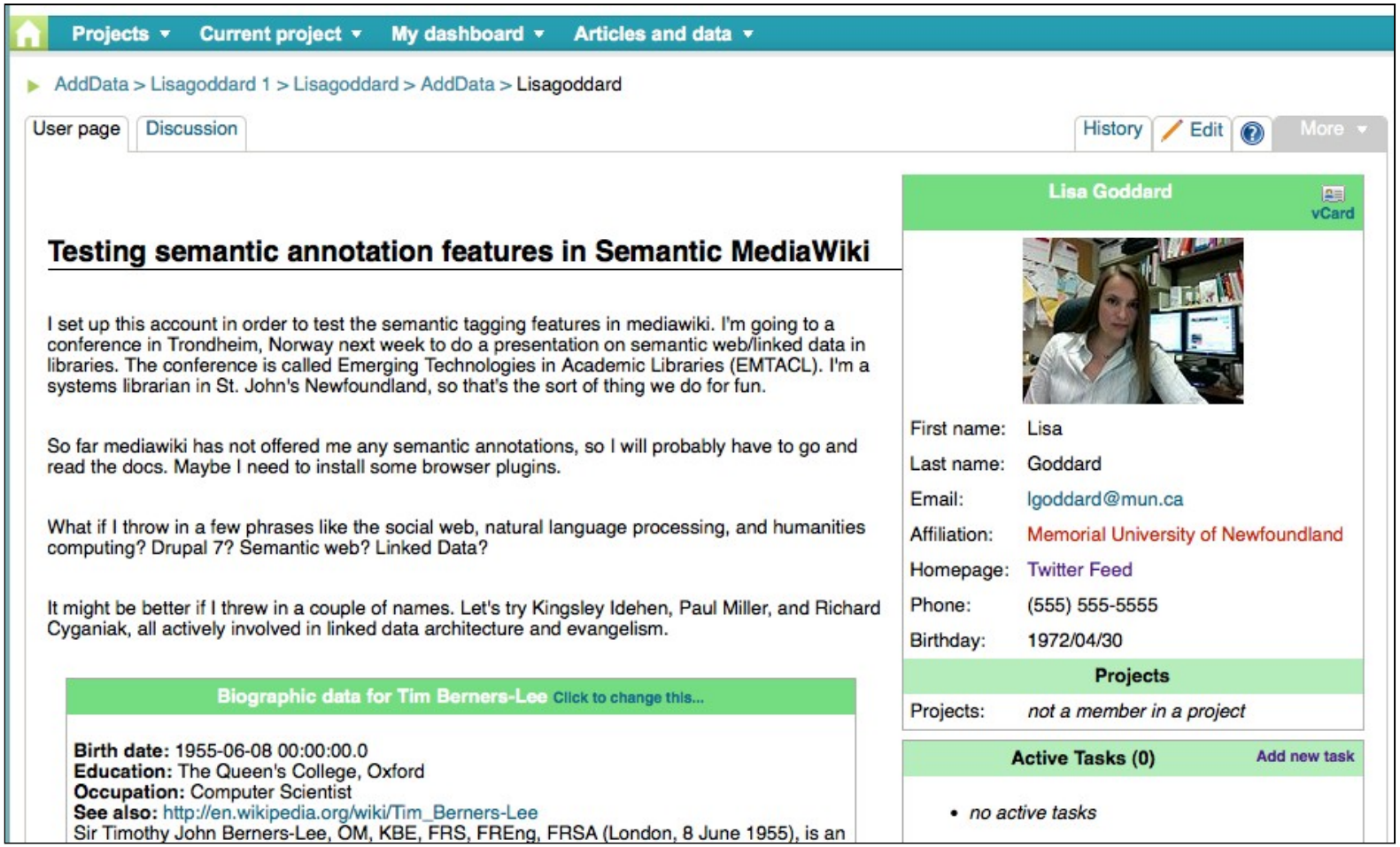

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Semantic MediaWiki

Facts about Lisagoddard RDF feed

Affiliation	Memorial University of Newfoundland
Birth date	30 April 1972
Current project	Libraries & Linked Data
Firstname	Lisa
HasCategory	Category:Person
HasGeocoordinates	49°27′25.181″N, 48°36′42.694″W
Homepage	http://twitter.com/lisagoddard
Knows	Jennifer Lokash, Gillian Byrne, and Tim Berners-Lee
Lastname	Goddard
Location	Pedagogues Close, St. John's, Newfoundland
Mbox	lgoddard@mun.ca
Name	Lisa Goddard
Phone	(555) 555-5555
User image	

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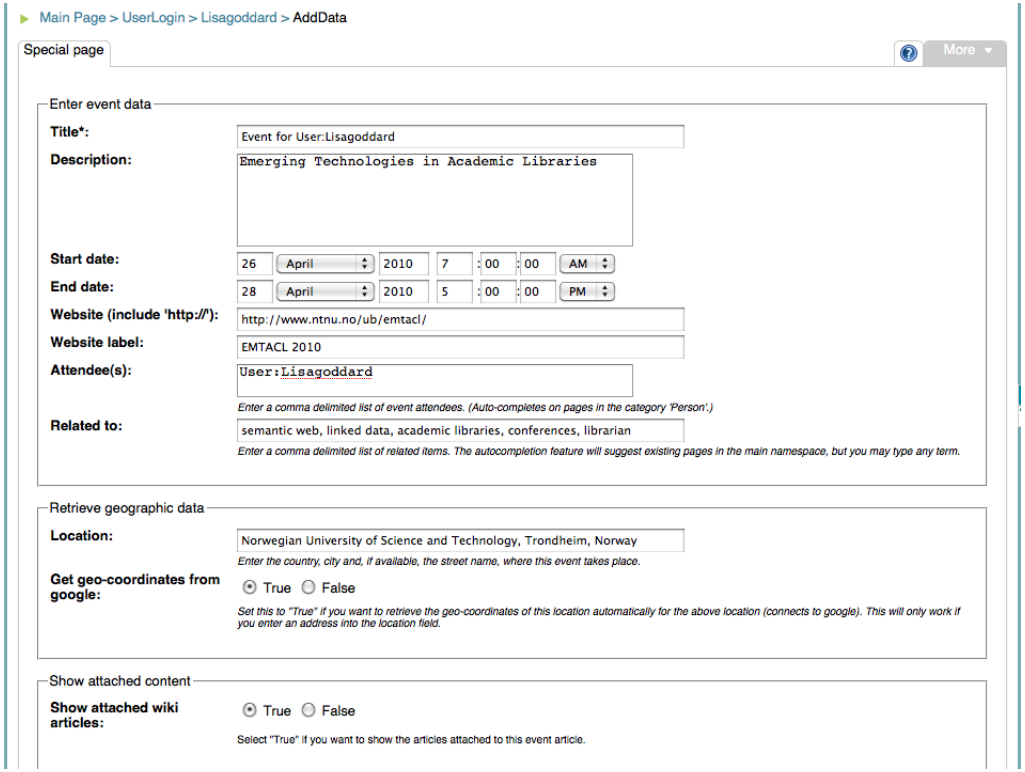
Semantic MediaWiki



Event for User:Lisagoddard iCal

Description:	Emerging Technologies in Academic Libraries

Details

Start:	2010/04/26 07:00:00 AM
End:	2010/04/28 05:00:00 PM
Homepage:	EMTACL 2010

People attending

User:Lisagoddard

Related items

semantic web, linked data, academic libraries, conferences, librarian

Location of Event for User:Lisagoddard 1

Location:	Norwegian University of Science and Technology, Trondheim, Norway
Geographic coordinates:	63.4244477°N, 10.4182722°E

If you want to retrieve the geo-coordinates with google then first activate the Google web service. After that open this article with the "edit with form"-tab and set "Get geo-coordinates from google" true.

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Drupal 6 CMS

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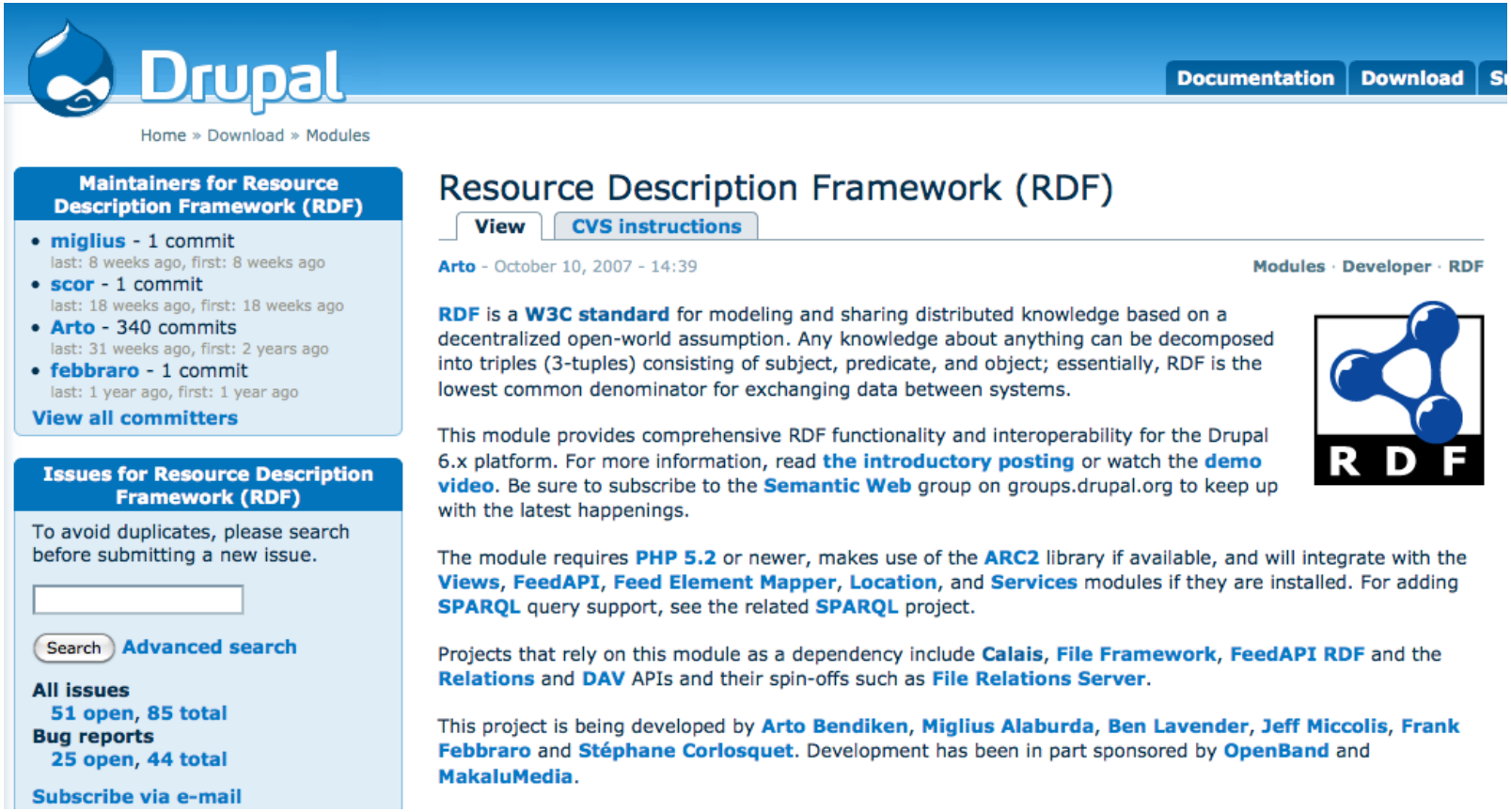

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Drupal 6 CMS

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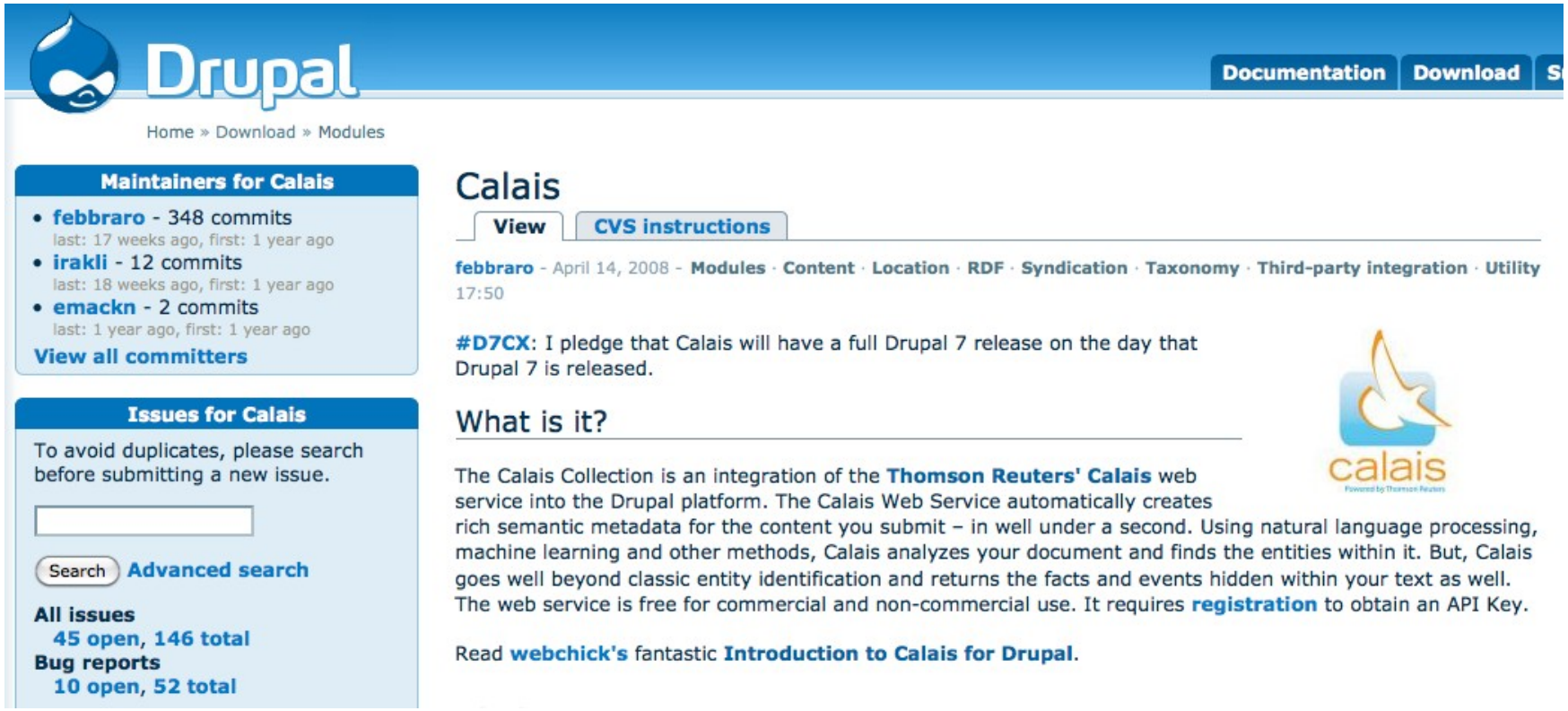

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Drupal CMS

OPENspring

Home

RDFa In Drupal 7: Last Call For Feedback Before Alpha Release

Posted on January 12th, 2010 by Stéphane

in alpha release Drupal Drupal7 Planet Drupal RDF RDF mappings RDFa review

The first alpha release of Drupal 7 will be created next Friday Jan 15th. We've already incorporated most of the feedback we received from the semweb community so far, but I wanted to give the community a last chance to review the RDFa markup and the default RDF mappings we use before it's too late. I should emphasize that all the markup and default RDF mappings that we ship in core will be pretty much set in stone after the stable release of Drupal 7, hence this call for feedback. Site administrators who care about semantics will be able to alter these mappings by installing extra modules, but many people (read several 10K sites) will just install Drupal 7 and not care about the semantics it generates. Therefore we want to make sure the RDFa generated by Drupal out of the box is somewhat correct and does not make folks from the semantic/pedantic web community angry :) - we've tried to keep the semantics as generic as possible for that reason.

RDF mappings

I've created a diagram representing the default semantics of the core data structure which has been committed and I would appreciate feedback on the RDF terms we've used.

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Drupal 7 CMS

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Blogs People Organizations Projects About

DERI

Project blogs

Navigation

- SPARQL endpoint

Users

- Manfred Hauswirth
- Stefan Decker
- Aidan Hogan
- Andreas Harth
- Axel Polleres

more

Manfred Hauswirth

First name: Manfred
Last name: Hauswirth
Homepage: http://www.manfredhauswirth.org/
Colleagues: Aidan Hogan
Andreas Harth
Axel Polleres
Benjamin Melançon
Stefan Decker
URI: http://data.semanticweb.org/person/manfred-hauswirth
http://semanticweb.org/id/Manfred_Hauswirth
Organizations: Digital Enterprise Research Insitute
National University of Ireland, Galway

RDF

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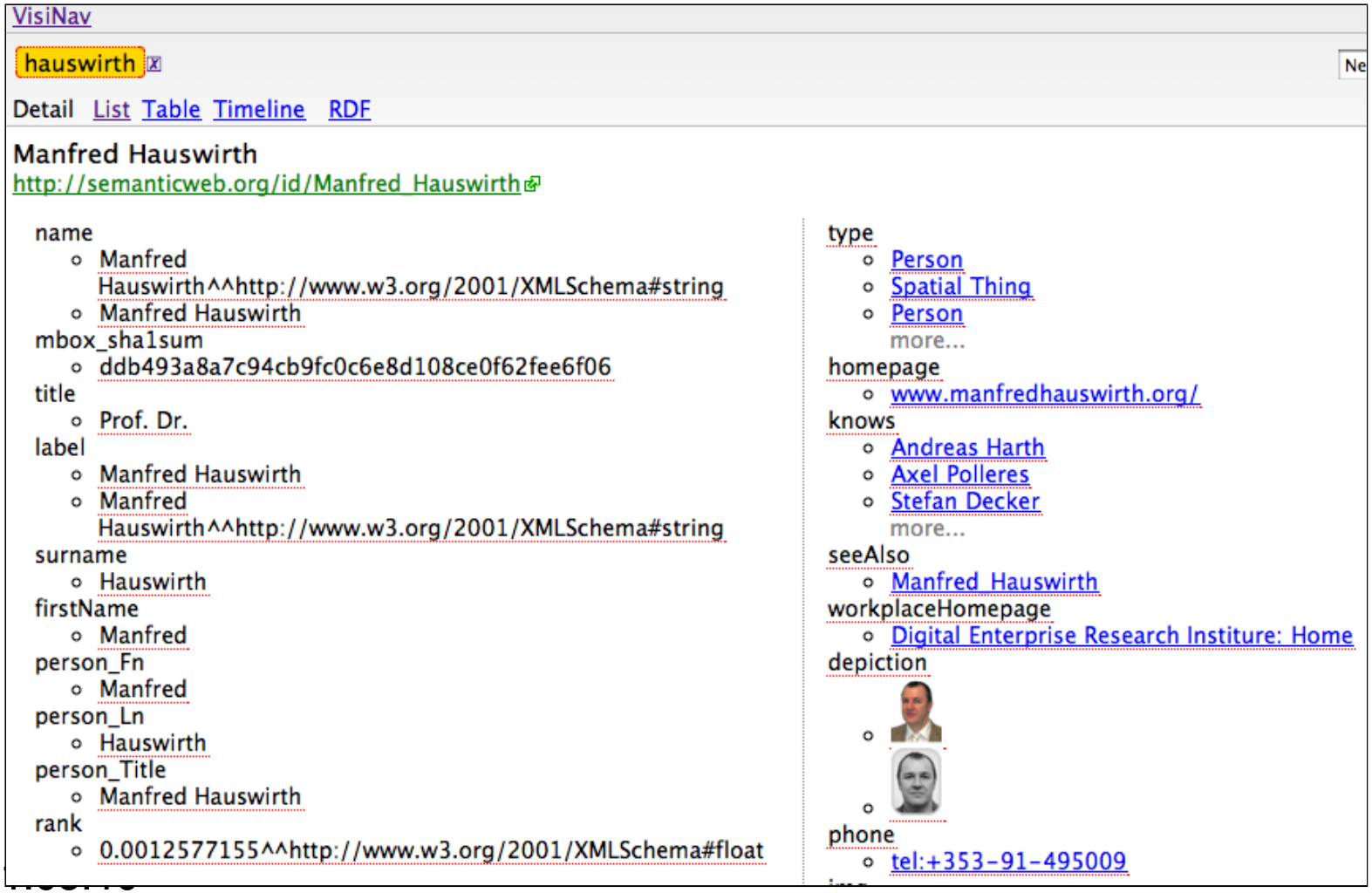
Drupal 7 RDFa - Visinav



VisiNav

manfred hauswirth Knows

Detail List Table RSS

Axel Polleres
http://www.polleres.net/foaf.rdf#me

Person Spatial Thing Person

Benjamin Melançon
http://srvgal65.deri.ie/projectblogs/node/2#this
Person Spatial Thing Person

Stefan Decker
http://www.deri.ie/about/team/member/Stefan_Decker#me

Person Spatial Thing Person

Aidan Hogan
http://sw.deri.org/~aidanh/foaf/foaf.rdf#Aidan_Hogan

Person Spatial Thing Person

VisiNav

manfred hauswirth Knows made

Detail List Table Timeline RSS

Transforming co-NP Checks to Answer Set Computation by Meta-Int...
http://dblp.l3s.de/d2r/resource/publications/conf/agp/EiterP03
document InProceedings
2003

Context Dependent Reasoning for Semantic Documents in Sindice
http://data.semanticweb.org/workshop/ssws/2008/paper/main/6
document Post InProceedings

polleres-feier
http://data.semanticweb.org/conference/eswc/2006/paper/polleres...

Axel Polleres' Personal Web Page
http://www.polleres.net/
document
This is the homepage of Axel Polleres. I currently work as a senior researcher and lecturer at the National University Galway, where I am afffiliated with the Digital Enterprise Research Institute (DERI).
2007-06-25

debruijn-lausen
http://data.semanticweb.org/conference/eswc/2006/paper/debruijn...

paper-119
http://data.semanticweb.org/conference/eswc/2007/paper-119

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Library RDF Publishing Tools

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Dspace & RDF

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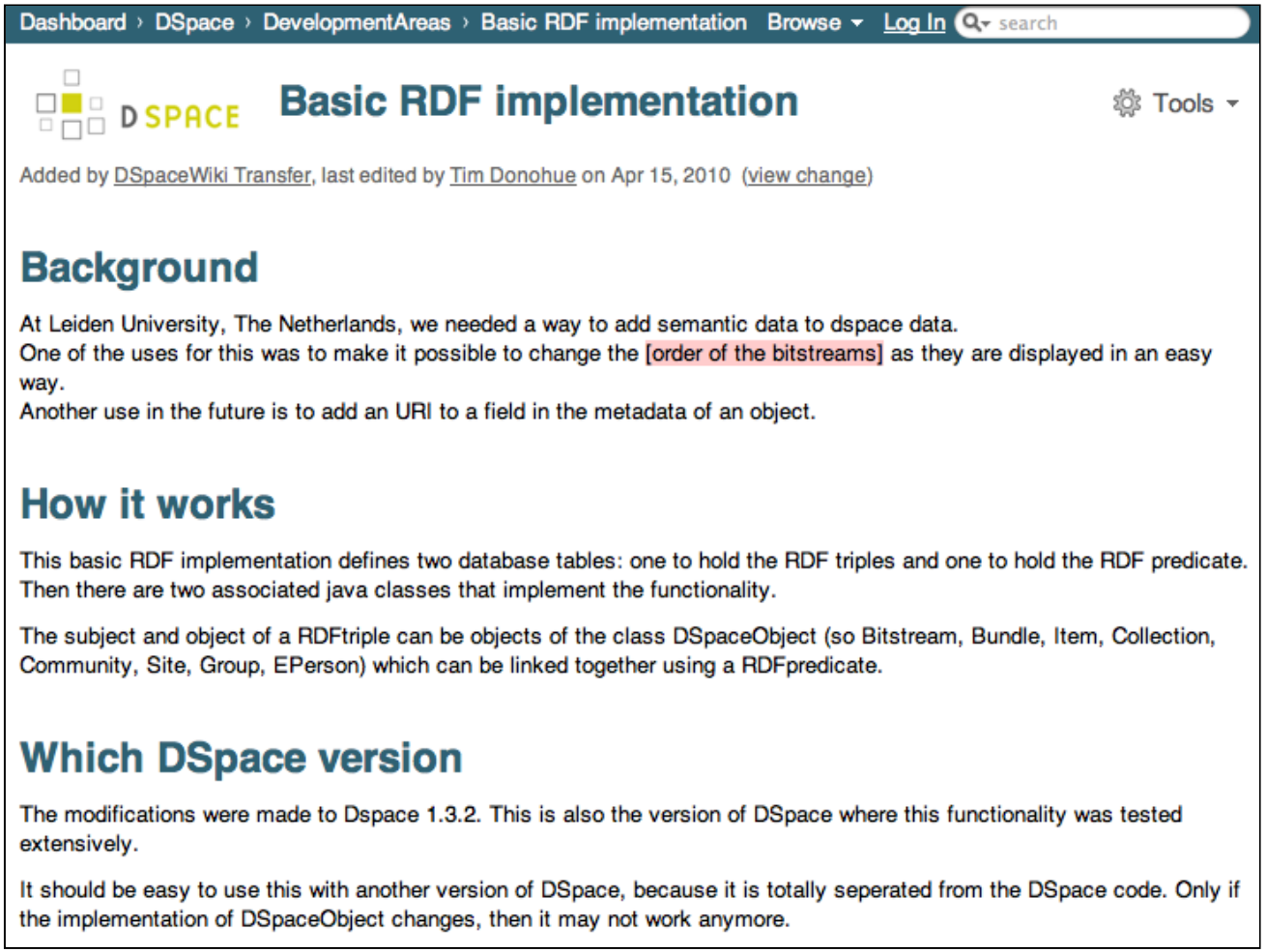

Dashboard › DSpace › DevelopmentAreas › Basic RDF implementation Browse Log In search

DSPACE

Basic RDF implementation

Tools

Added by DSpaceWiki Transfer, last edited by Tim Donohue on Apr 15, 2010 (view change)

Background

At Leiden University, The Netherlands, we needed a way to add semantic data to dspace data.
One of the uses for this was to make it possible to change the [order of the bitstreams] as they are displayed in an easy way.
Another use in the future is to add an URI to a field in the metadata of an object.

How it works

This basic RDF implementation defines two database tables: one to hold the RDF triples and one to hold the RDF predicate. Then there are two associated java classes that implement the functionality.

The subject and object of a RDFtriple can be objects of the class DSpaceObject (so Bitstream, Bundle, Item, Collection, Community, Site, Group, EPerson) which can be linked together using a RDFpredicate.

Which DSpace version

The modifications were made to Dspace 1.3.2. This is also the version of DSpace where this functionality was tested extensively.

It should be easy to use this with another version of DSpace, because it is totally seperated from the DSpace code. Only if the implementation of DSpaceObject changes, then it may not work anymore.

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Dspace & RDF

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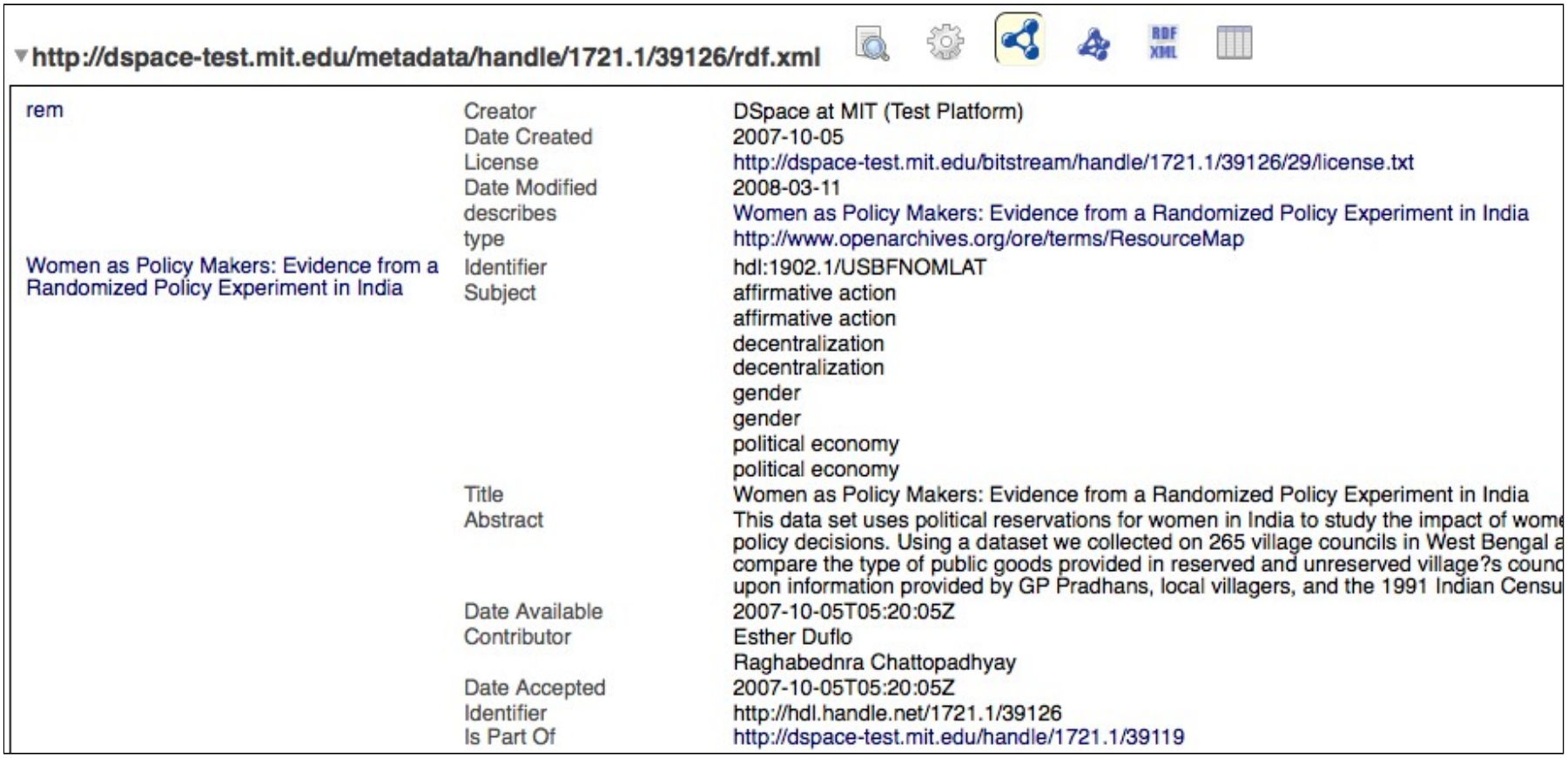
Dspace & RDF



http://dspace-test.mit.edu/metadata/handle/1721.1/39126/rdf.xml

rem	Creator	DSpace at MIT (Test Platform)
	Date Created	2007-10-05
	License	http://dspace-test.mit.edu/bitstream/handle/1721.1/39126/29/license.txt
	Date Modified	2008-03-11
	describes	Women as Policy Makers: Evidence from a Randomized Policy Experiment in India
	type	http://www.openarchives.org/ore/terms/ResourceMap
Women as Policy Makers: Evidence from a Randomized Policy Experiment in India	Identifier	hdl:1902.1/USBFNOMLAT
	Subject	affirmative action affirmative action decentralization decentralization gender gender political economy political economy
	Title	Women as Policy Makers: Evidence from a Randomized Policy Experiment in India
	Abstract	This data set uses political reservations for women in India to study the impact of wome policy decisions. Using a dataset we collected on 265 village councils in West Bengal a compare the type of public goods provided in reserved and unreserved village?s counc upon information provided by GP Pradhans, local villagers, and the 1991 Indian Censu
	Date Available	2007-10-05T05:20:05Z
	Contributor	Esther Duflo Raghabednra Chattopadhyay
	Date Accepted	2007-10-05T05:20:05Z
	Identifier	http://hdl.handle.net/1721.1/39126
	Is Part Of	http://dspace-test.mit.edu/handle/1721.1/39119

11.05.10

Fedora & RDF

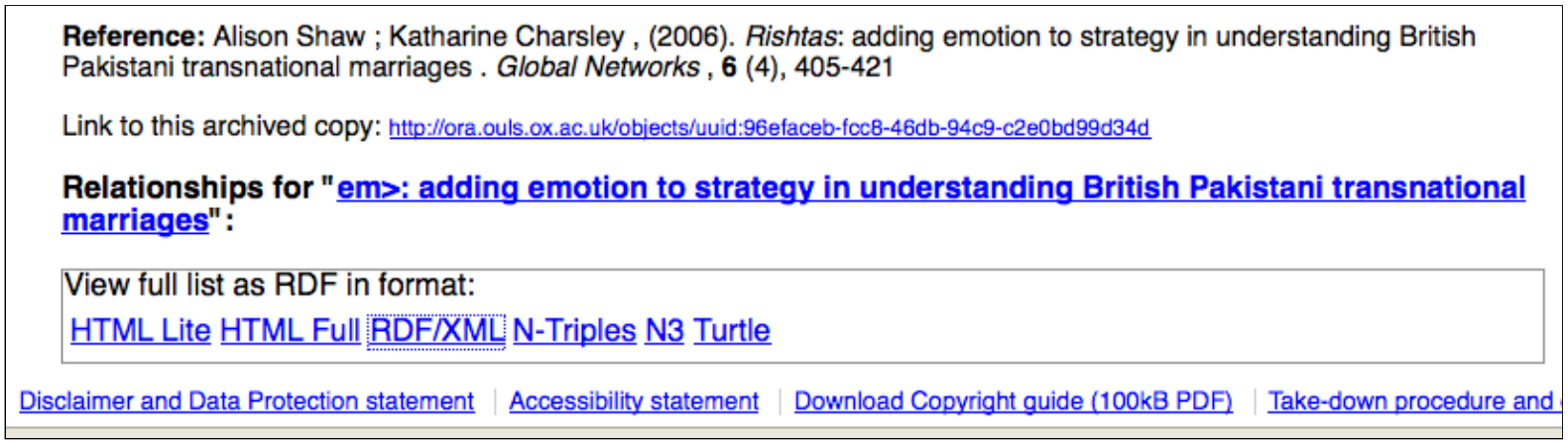
MEMORIAL UNIVERSITY

11.05.10

Fedora & RDF

11.05.10

Fedora & RDF



Reference: Alison Shaw ; Katharine Charsley , (2006). *Rishtas*: adding emotion to strategy in understanding British Pakistani transnational marriages . *Global Networks* , **6** (4), 405-421

Link to this archived copy: http://ora.ouls.ox.ac.uk/objects/uuid:96efaceb-fcc8-46db-94c9-c2e0bd99d34d

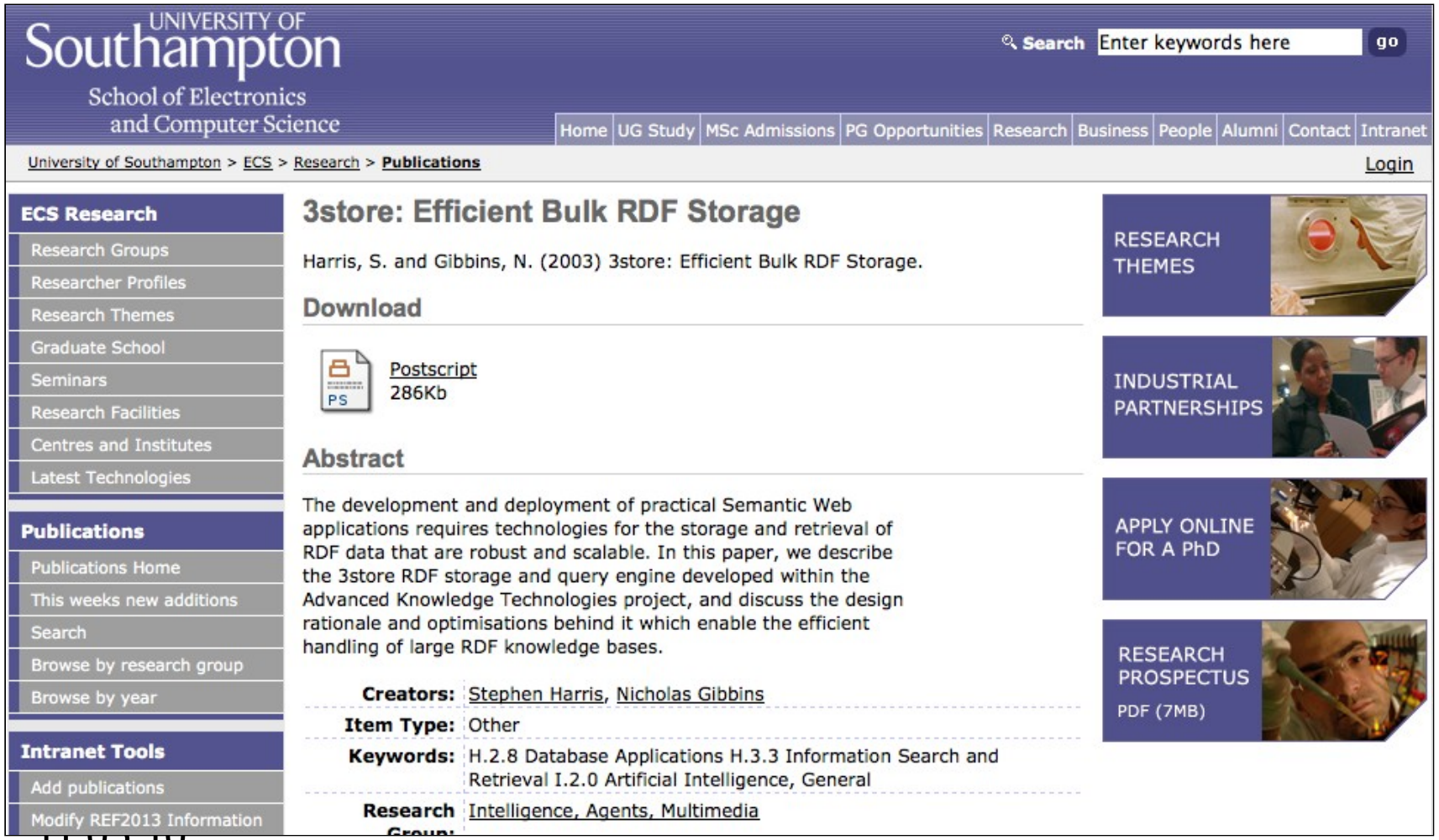
Relationships for "em>: adding emotion to strategy in understanding British Pakistani transnational marriages":

View full list as RDF in format:
HTML Lite HTML Full RDF/XML N-Triples N3 Turtle

Disclaimer and Data Protection statement | Accessibility statement | Download Copyright guide (100kB PDF) | Take-down procedure and

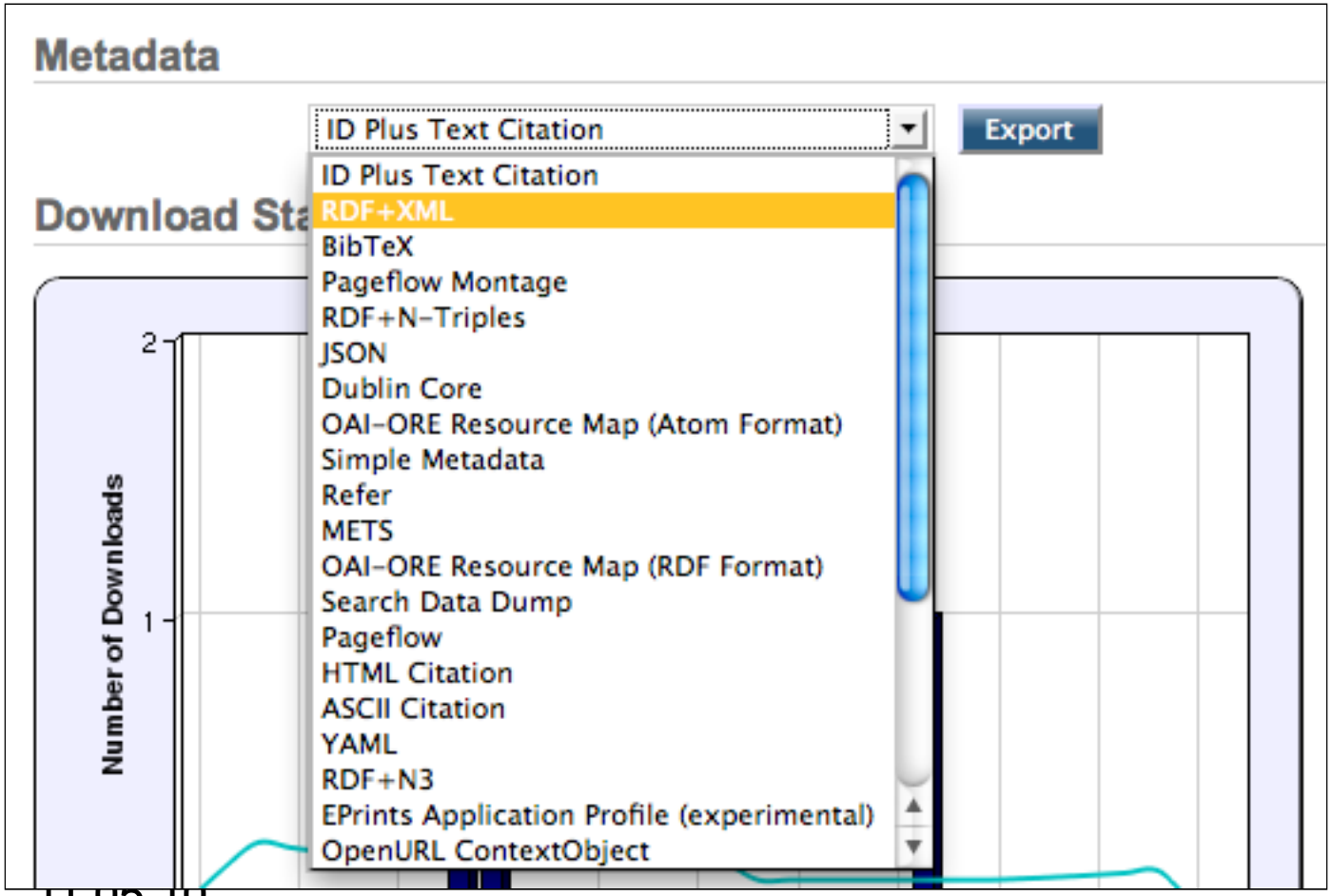
11.05.10

Eprints & RDF



11.05.10

Eprints & RDF


Metadata
ID Plus Text Citation
Export
Download Sta
ID Plus Text Citation
RDF+XML
BibTeX
Pageflow Montage
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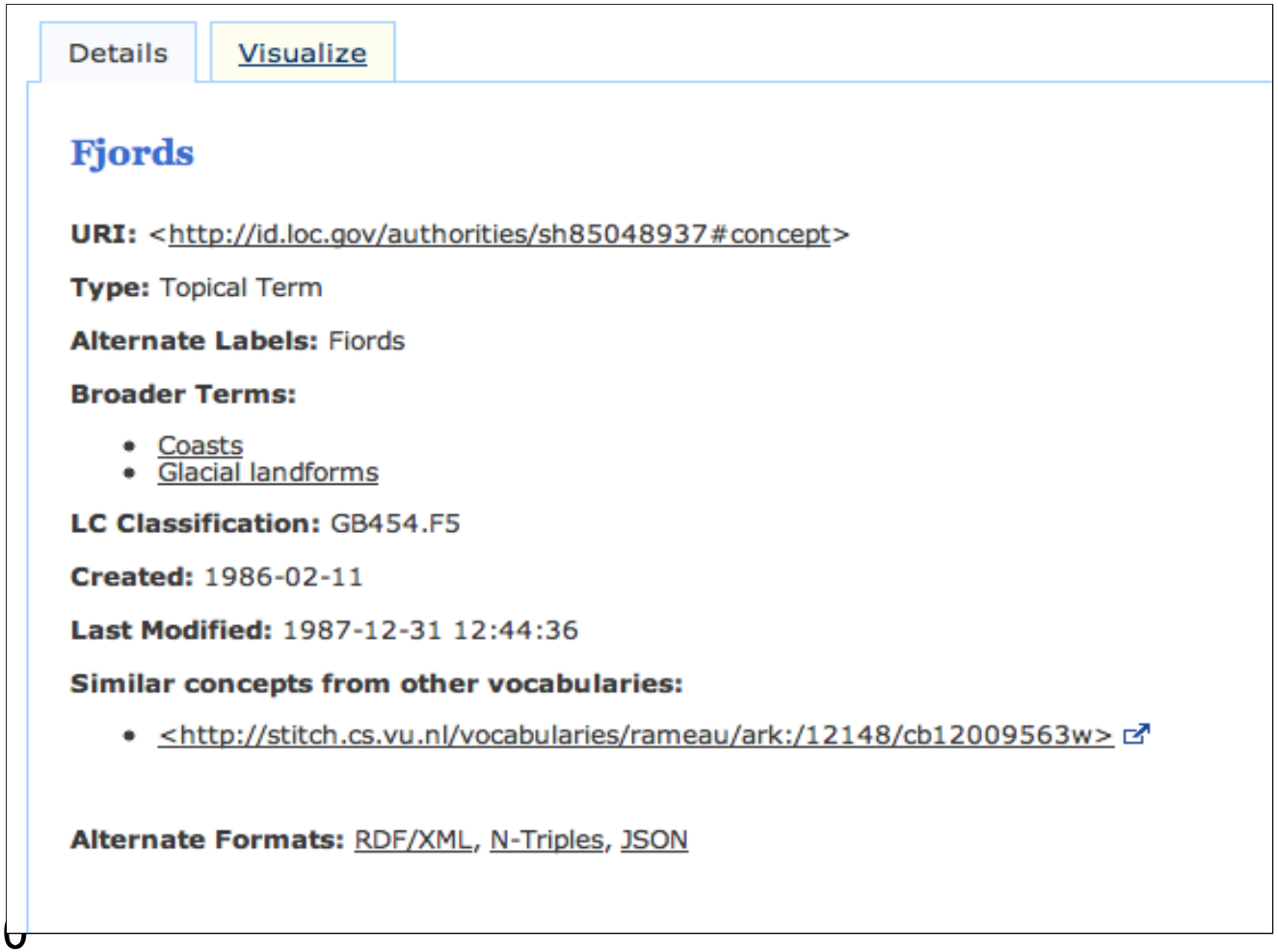
JSON
Dublin Core
OAI-ORE Resource Map (Atom Format)
Simple Metadata
Refer
METS
OAI-ORE Resource Map (RDF Format)
Search Data Dump
Pageflow
HTML Citation
ASCII Citation
YAML
RDF+N3
EPrints Application Profile (experimental)
OpenURL ContextObject
Number of Downloads
2
1
11.05.10

Library Linking Hubs

Linked Data is about reusing existing ontologies and data as far as possible – so it isn't just about about allowing users to link to our data, but linking when the data already exists.

11.05.10

Subject linking: loc.id.gov



Details | Visualize

Fjords

URI: <http://id.loc.gov/authorities/sh85048937#concept>

Type: Topical Term

Alternate Labels: Fiords

Broader Terms:

- Coasts
- Glacial landforms

LC Classification: GB454.F5

Created: 1986-02-11

Last Modified: 1987-12-31 12:44:36

Similar concepts from other vocabularies:

- <http://stitch.cs.vu.nl/vocabularies/rameau/ark:/12148/cb12009563w>

Alternate Formats: RDF/XML, N-Triples, JSON

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Subject linking: loc.id.gov

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http://id.loc.gov/authorities/sh85048937.rdf

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Subject linking: loc.id.gov

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Swedish subject heading: "Mödrar"

Broader terms
- Föräldrar

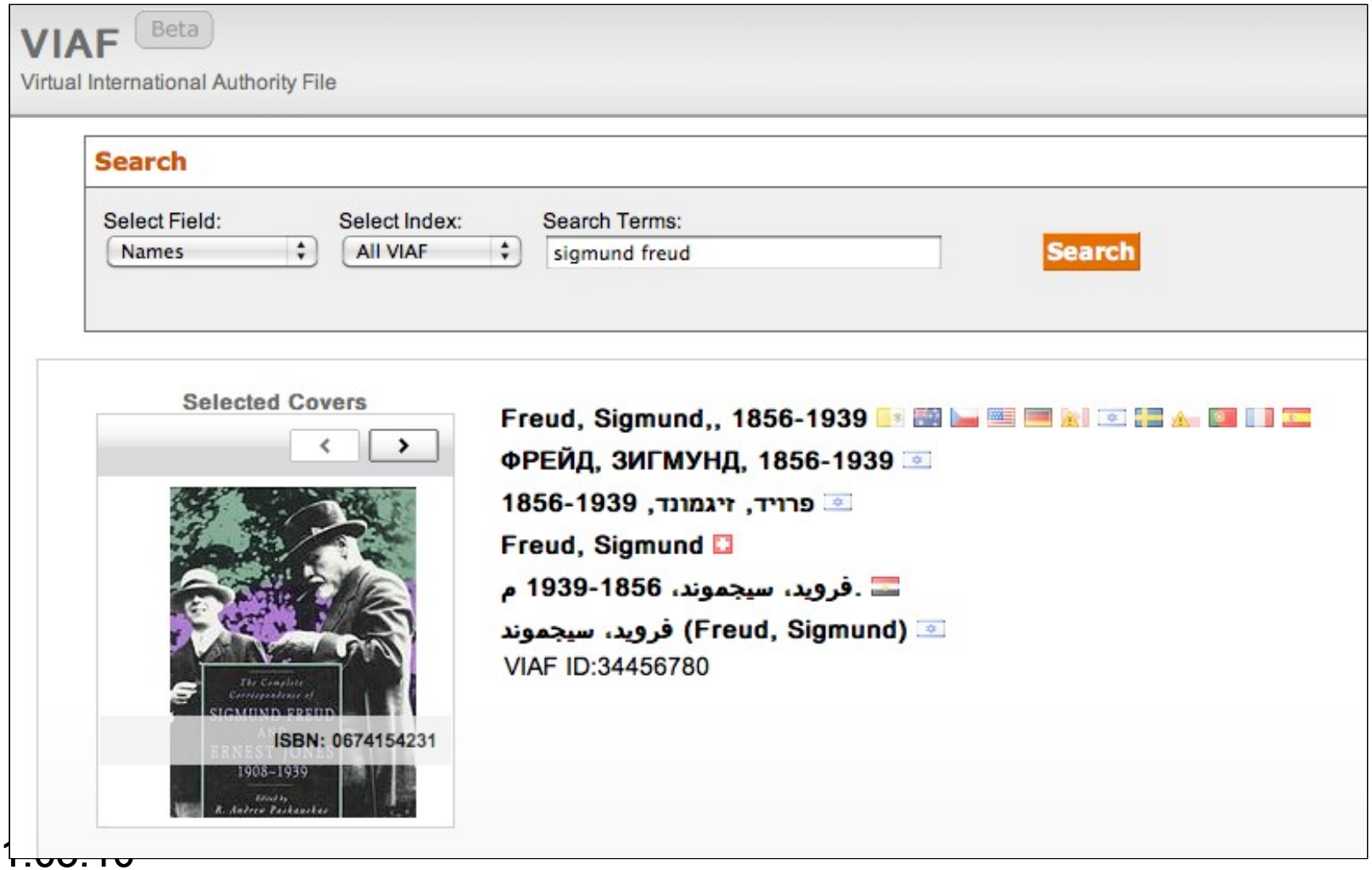
Narrower terms
- Ensamstående mödrar
- Lesbiska mödrar
- Soldatmödrar
- Styvmödrar
- Surrogatmödrar
- Unga mödrar
- Yrkesarbetande mödrar

Related terms
- Gravida kvinnor
- Mor-barnrelationer

LCSH:
- Mothers

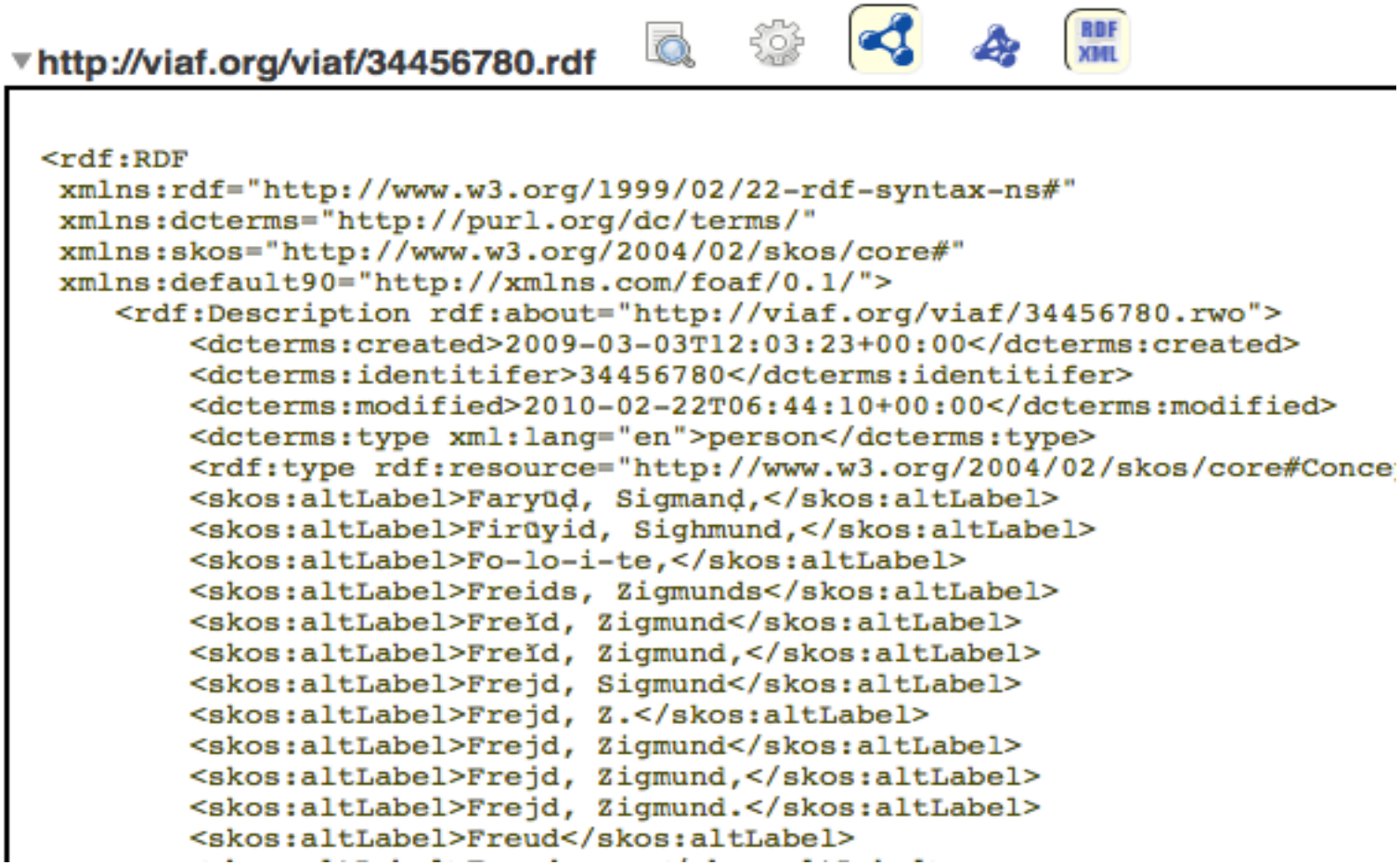
misc.
- text/rdf+n3
- application/rdf+xml
- OpenLink RDF browser

Virtual International Authority File



Virtual International Authority File

MEMORIAL UNIVERSITY



11.05.10

Authority Linking: VIAF

Person: Strindberg, August, 1849-1912

Other names
- Strindberg, Johan August, 1849-1912
- Härved, Ulf, 1849-1912
- Strindberg, Avgust Juchan, 1849-1912
- Estrindberg, Agust, 1849-1912
- Strintmperg, August, 1849-1912

DBPedia
- http://dbpedia.org/resource/August_Strindberg

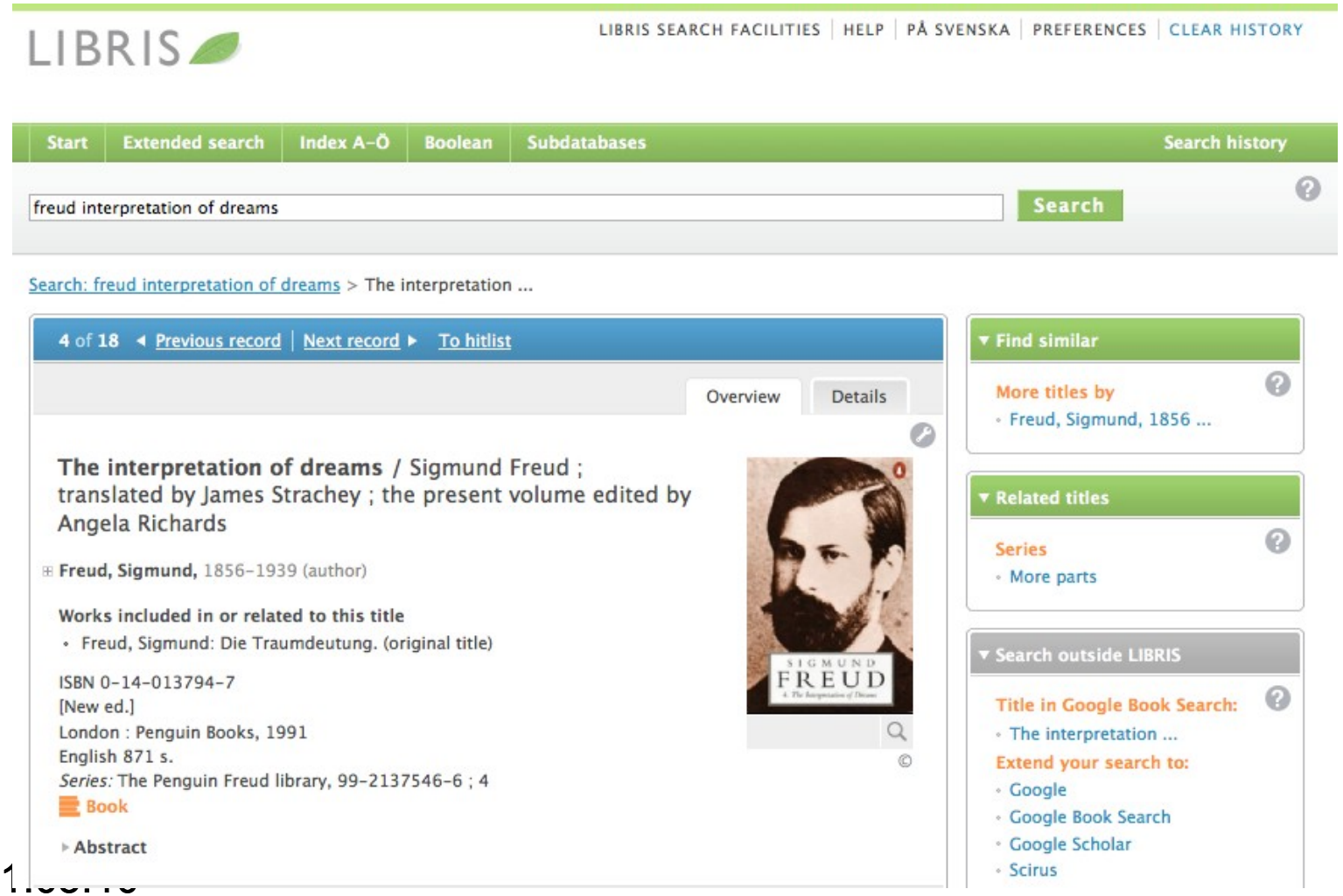
Wikipedia
- http://sv.wikipedia.org/wiki/August_Strindberg

VIAF
- http://viaf.org/viaf/54154627

Depiction
- http://libris.kb.se/images/August_Strindberg.jpg

misc.
- text/rdf+n3
- application/rdf+xml
- OpenLink RDF browser

Linked Marc Records



OPENLINK SOFTWARE **Data Explorer** http://libris.kb.se/bib/4573797

What | Where | When | Who | Images | Grid view | Tag Cloud | SVG Graph | Navigator | Custom

This view shows all RDF data grouped by subject resource.

Cache Total 41 triples All: Check Uncheck Invert Sel Purge Refresh Permalink

☑ http://libris.kb.se/bib/4573797 - 41 triples - Remove - Refresh - Permalink

There are 41 triples available.

visible columns

#	Subject	Predicate	Object
35	4573797	bibo:isbn10	0140137947
2	4573797	dc:creator	Sigmund Freud
3	4573797	dc:creator	Freud, Sigmund, 1856-1939
4	4573797	dc:creator	217605
34	4573797	dc:date	1991
1	4573797	dc:identifier	URN:ISBN:0140137947
37	4573797	dc:publisher	Penguin Books
32	4573797	dc:title	The interpretation of dreams
33	4573797	dc:type	text
5	4573797	frbr_related	7817672
6	4573797	frbr_related	8072283
7	4573797	frbr_related	1935802
8	4573797	frbr_related	3267992
9	4573797	frbr_related	11414070
10	4573797	frbr_related	2723414
11	4573797	frbr_related	7817699

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RDF Book Mashup

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Book Search Results for “interpretation of dreams freud”

Search for books: interpretation of dreams freud Go

Note: You can use an RDF-aware user agent (e.g. Browser) to explore the RDF based Linked Data (Metadata) associated

The Interpretation Of Dreams
Sigmund Freud
http://www4.wiwiss.fu-berlin.de/bookmashup/books/8562022489

Signmud Freud's The Interpretation of Dreams - Freud's seminal exploration of human nature (Discus
Sigmund Freud, James Strachey
http://www4.wiwiss.fu-berlin.de/bookmashup/books/

THE INTERPRETATION OF DREAMS - Freud's Seminal Exploration of Human Nature
Sigmund (James Strachey Transl.) Freud
http://www4.wiwiss.fu-berlin.de/bookmashup/books/

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Linked Periodicals Data

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Work Employment & Society

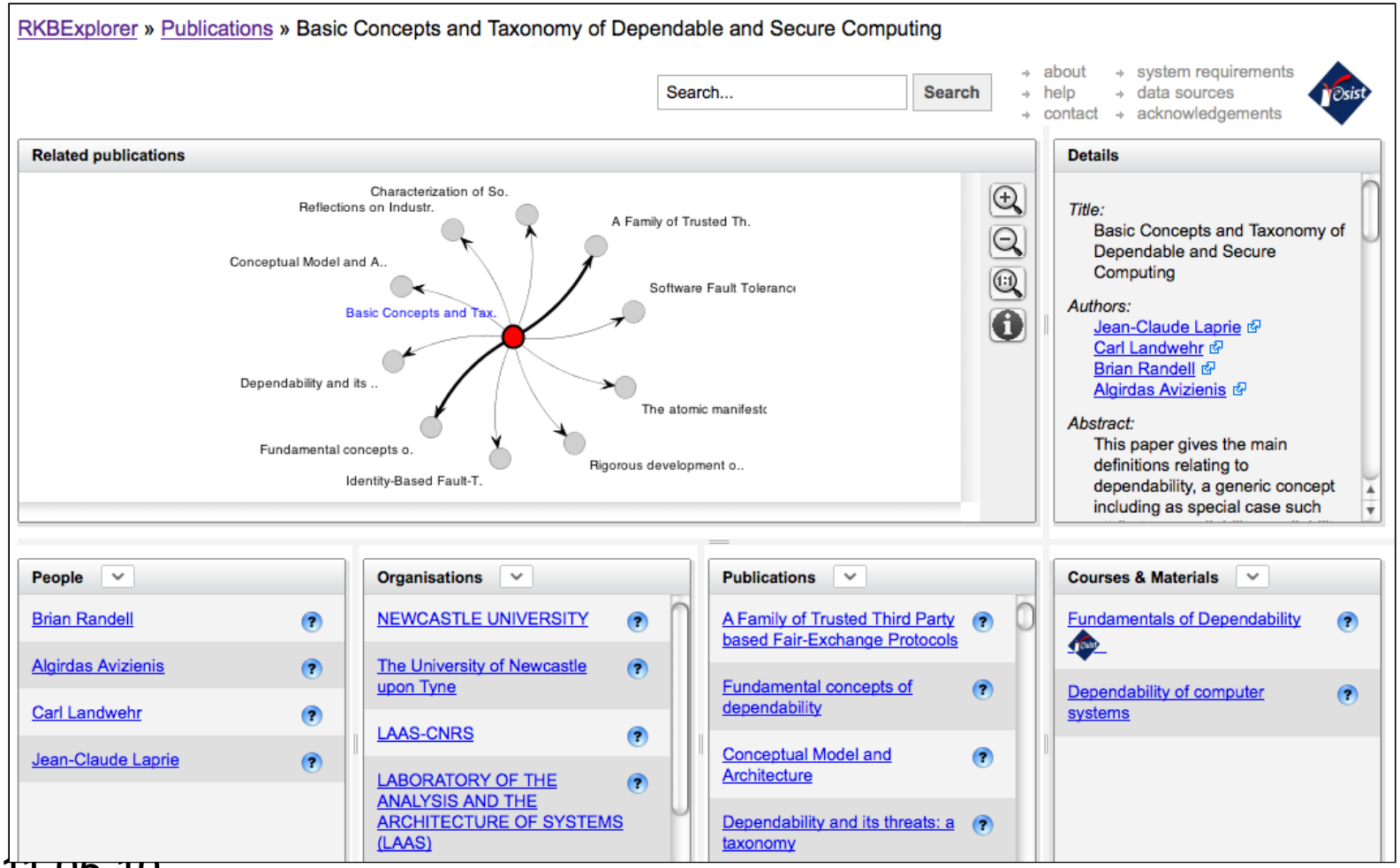
http://periodicals.dataincubator.org/journal/work-employment-and-society

RDF/XML JSON Turtle

Search

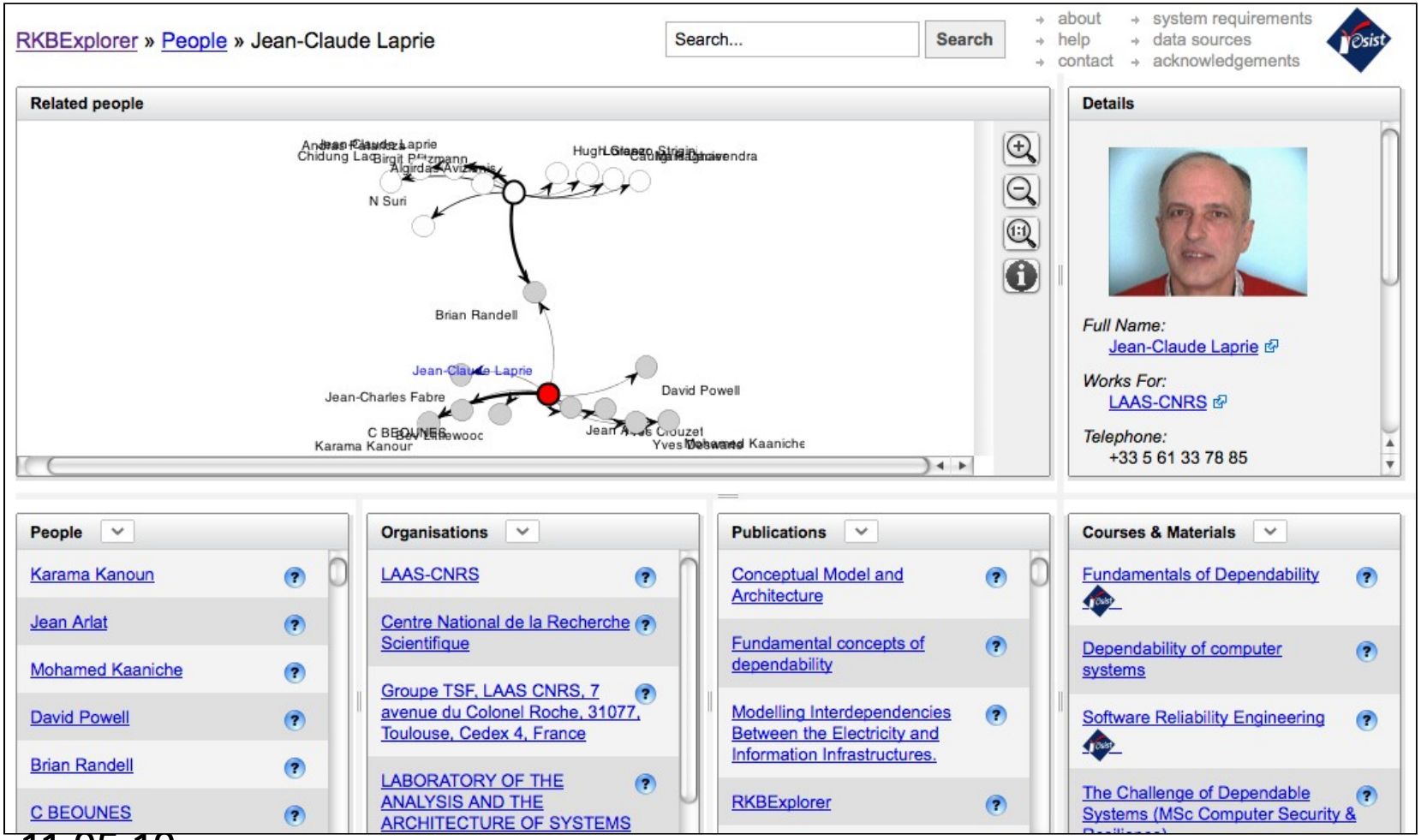
Titles	Work Employment & Society
	Work, Employment & Society
Type	bibo:Journal
Publisher	organization:sage-publications
Subjects	authorities:sh85065928
	authorities:sh85065946
	authorities:sh85148133
Subjects	Arbeidssociologie
	Industrial relations
	Industrial sociology
	Relations industrielles
	Sociologie industrielle
	Travail
	Work
Homepage	http://wes.sagepub.com
ISSN	0950-0170
EISSN	1469-8722

RKBExplorer - Publication



11.05.10

RKBExplorer - Person



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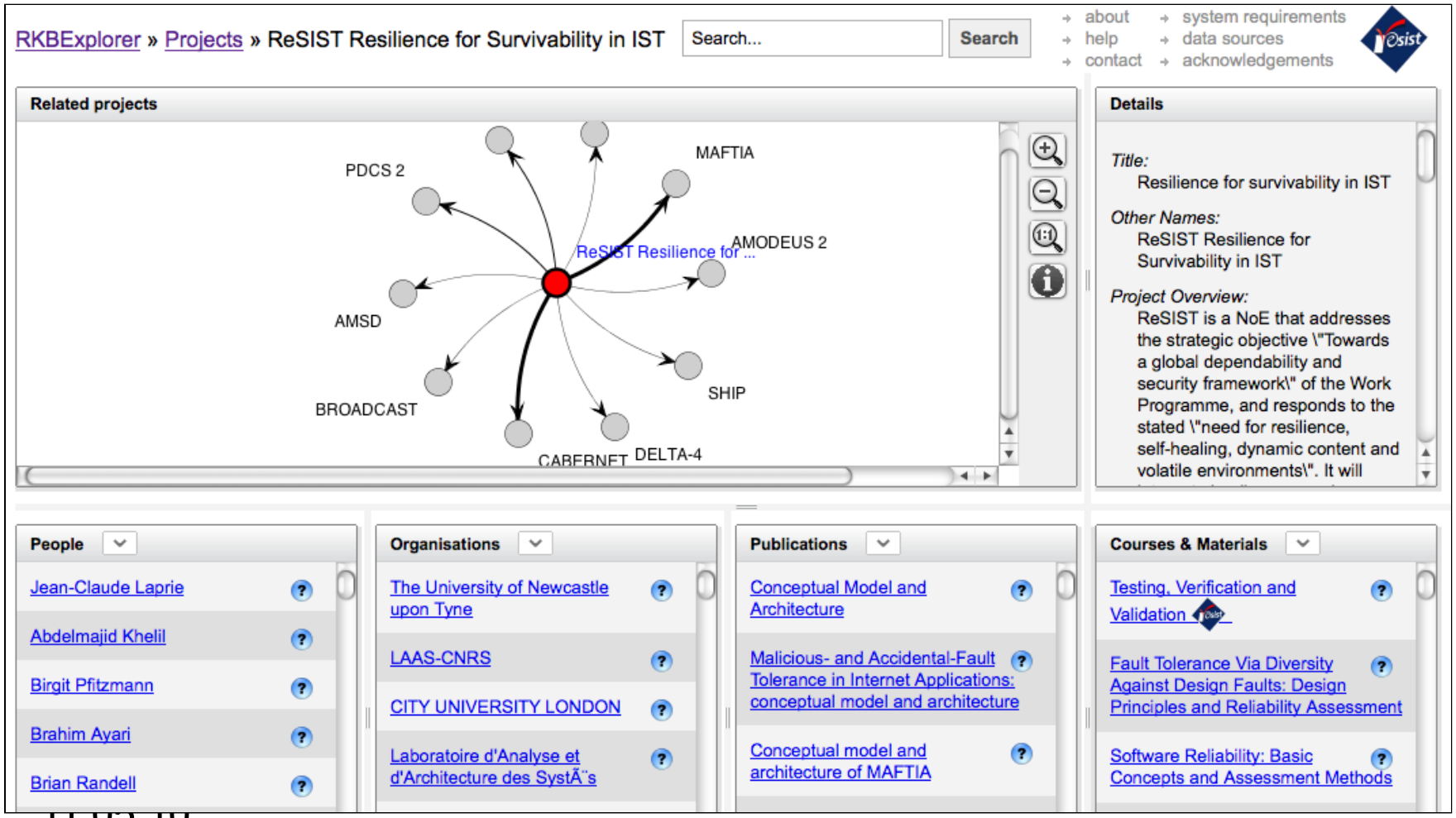
RKBExplorer - Project



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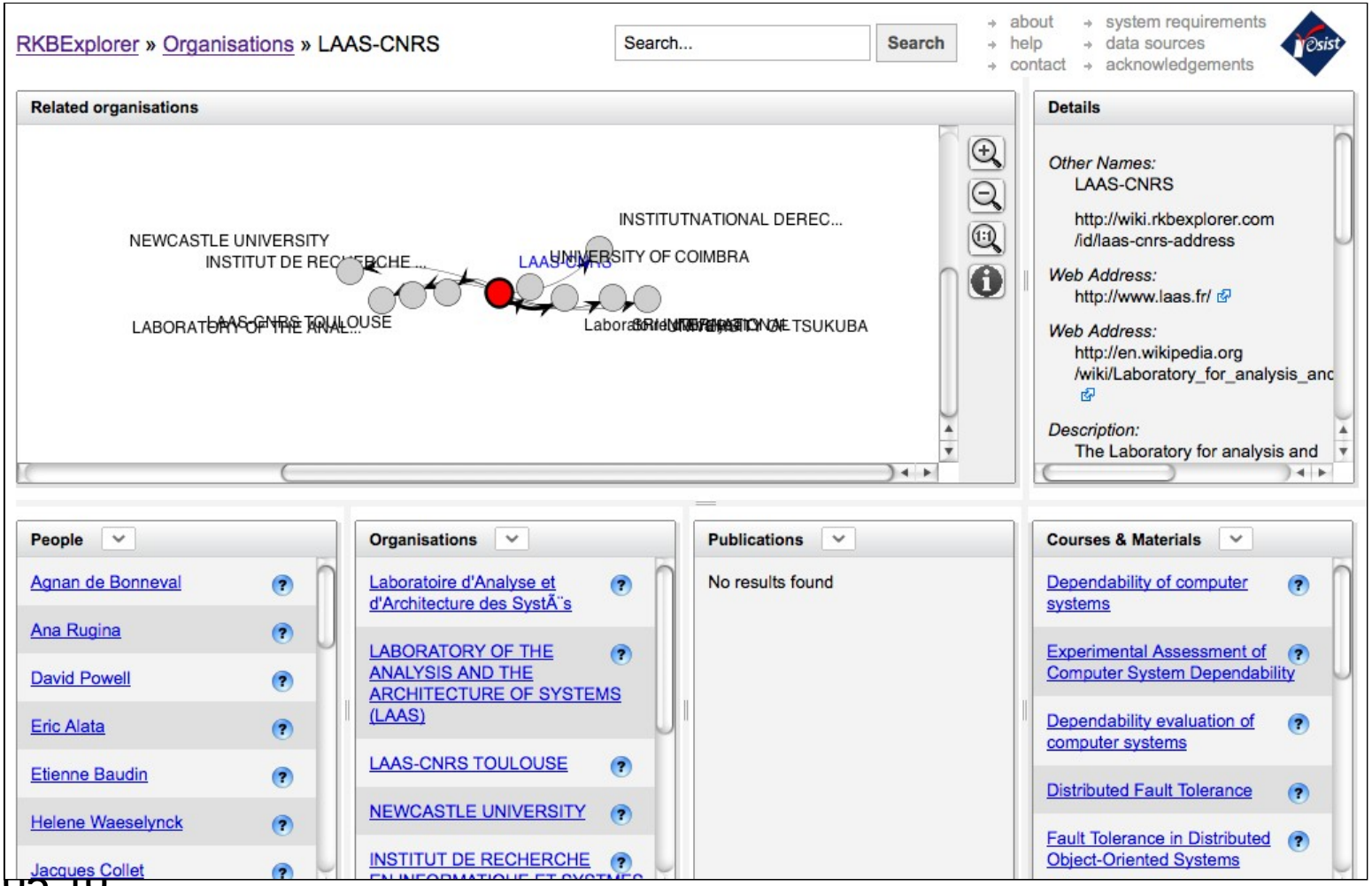
RKBExplorer - Organization



11.05.10

What's the promise?

- Better, smarter discovery
- Enriched content
- Enhanced personalization

11.05.10

Smarter linking

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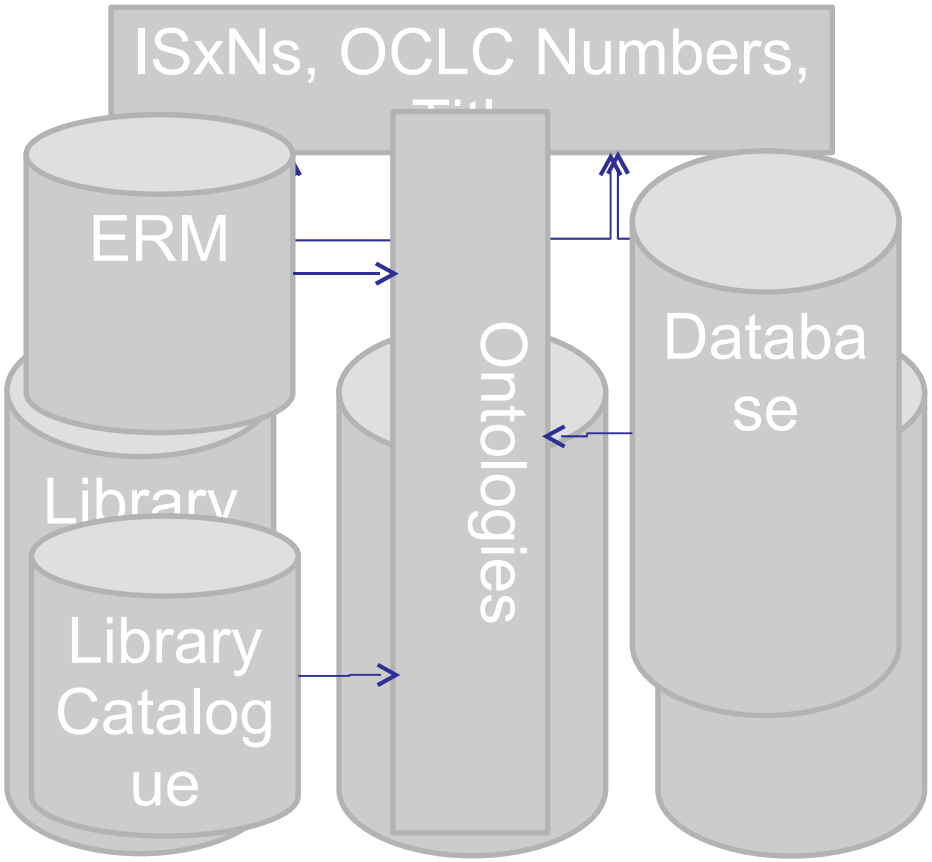
Title:	**Deviance and crime in colleges and universities: What goes on in the halls of ivy.**
Authors:	Hickson, Mark, III Roebuck, Julian B.
Source:	Springfield, IL, US: Cha
ISBN:	978-0-398-07879-9 (Ha 978-0-398-07880-5 (Pa
Language:	English
Keywords:	interdisciplinary typolog drinking; date rape; as
Abstract:	(from the cover) This ***b*** shootings were aberrat binge drinking, date rap ***behavior*** and crime in including coaching ***beh*** ***behavior***, sexual issue commercialism at the e pressures of external g deviance and crime tha academic would rather all rights reserved)
Subjects:	*Antisocial Behavior; *Colleges; *Criminal Behavior; *School Environment; *Taxonomies; Campuses; Classroom Environment; Crime; Educational Administration; Higher Education; Morality; Social Behavior
Classification:	Classroom Dynamics & Student Adjustment & Attitudes (3560) Criminal ***Behavior*** & Juvenile Delinquency (3236)
Population:	Human (10)
Age Group:	Adulthood (18 yrs & older) (300)
Intended Audience:	Psychology: Professional & Research (PS)
Format Covered:	Print
Publication Type:	***Book***; Authored ***Book***
Release Date:	20100118
Accession Number:	2009-17252-000

Deviance and crime in colleges and universities : what goes on in the halls of ivy

Personal Author: Hickson, Mark.
Title: Deviance and crime in colleges and universities : what goes on in the halls of ivy / by Mark Hickson III and Julian B. Roebuck.
Publication info: Springfield, Ill. : Charles C Thomas, c2009.
Physical descrip: xiv, 253 p. ; 26 cm.
Subject term: Universities and colleges--United States--Sociological aspects.
Subject term: Universities and colleges--Corrupt practices--United States.
Subject term: College discipline--United States.
Subject term: Deviant behavior--United States.
Subject term: College students--United States--Psychology.
Bibliography note: Includes bibliographical references and index.
Added author: Roebuck, Julian B.
ISBN: 9780398078799 (hard)
ISBN: 0398078793 (hard)
ISBN: 9780398078805 (pbk.)
ISBN: 0398078807 (pbk.)

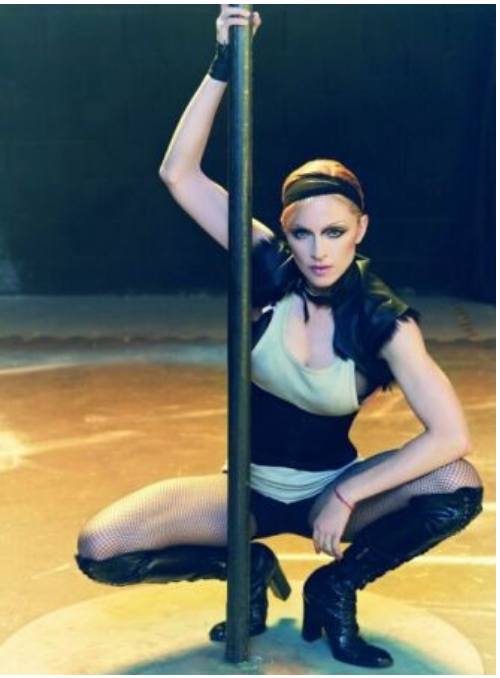
Summary
This volume aims to present a complete picture of deviant behavior and crime at universities, based on the authors' personal experiences from 1945-2007, stories of professors, staff, journalists, and students, and news accounts in the Chronicle of Higher Education from 2004-2007, and other sources. From a sociological viewpoint, the authors examine fraternity and sorority, athletic, administrative, and other deviance, including hazing, binge drinking, and date rape; gambling and cheating in sports; plagiarism, sexual issues, tenure issues, false reports, and bullying; and illegal hiring practices, commercialism at the expense of learning, intellectual scandal, and research conflict of interest. Other groups investigated include donors and governing boards. They also identify potential solutions to these problems. Hickson, who has degrees in sociology and law, has taught at Auburn U., Mississippi State U., the American U., and the U. of Alabama at Birmingham. Roebuck, a former case worker for the US Bureau of Prisons, has taught at the U. of North Alabama, the U. of Maryland, and the US European and African Oversea School Program. Annotation ©2009 Book News, Inc., Portland, OR (booknews.com) Distributed by Syndetic Solutions, Inc.

Data integration



11.05.10

Disambiguation



Madonna at Raphael's nightclub (NSFW)

Raphael's Madonna (NSFW)

11.05.10

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Related Works to Relationships

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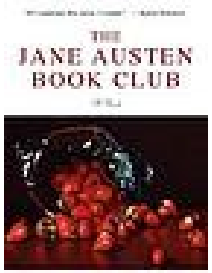

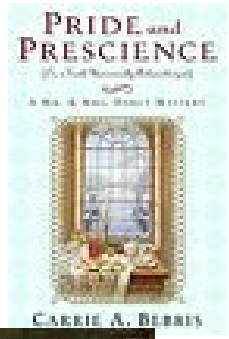

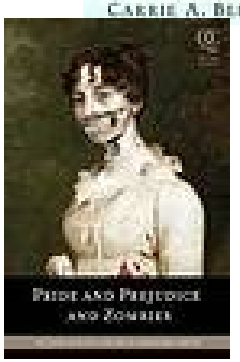

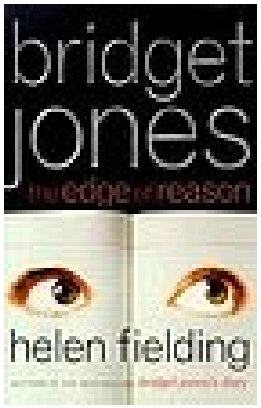

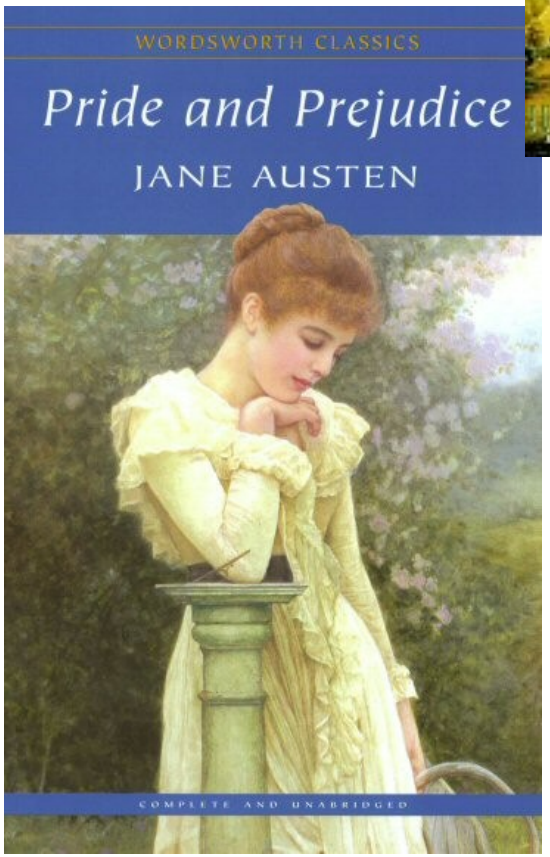

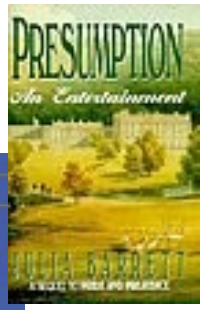

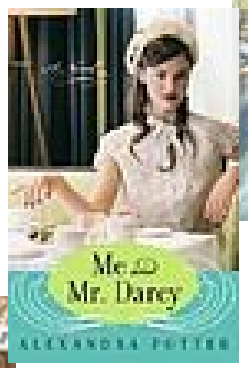

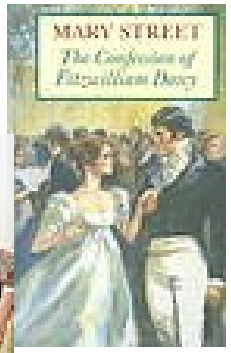

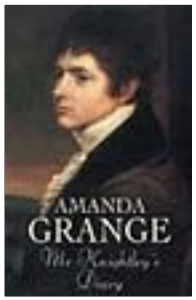

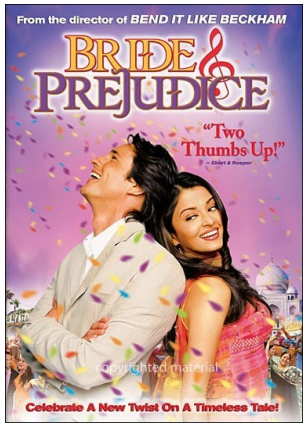

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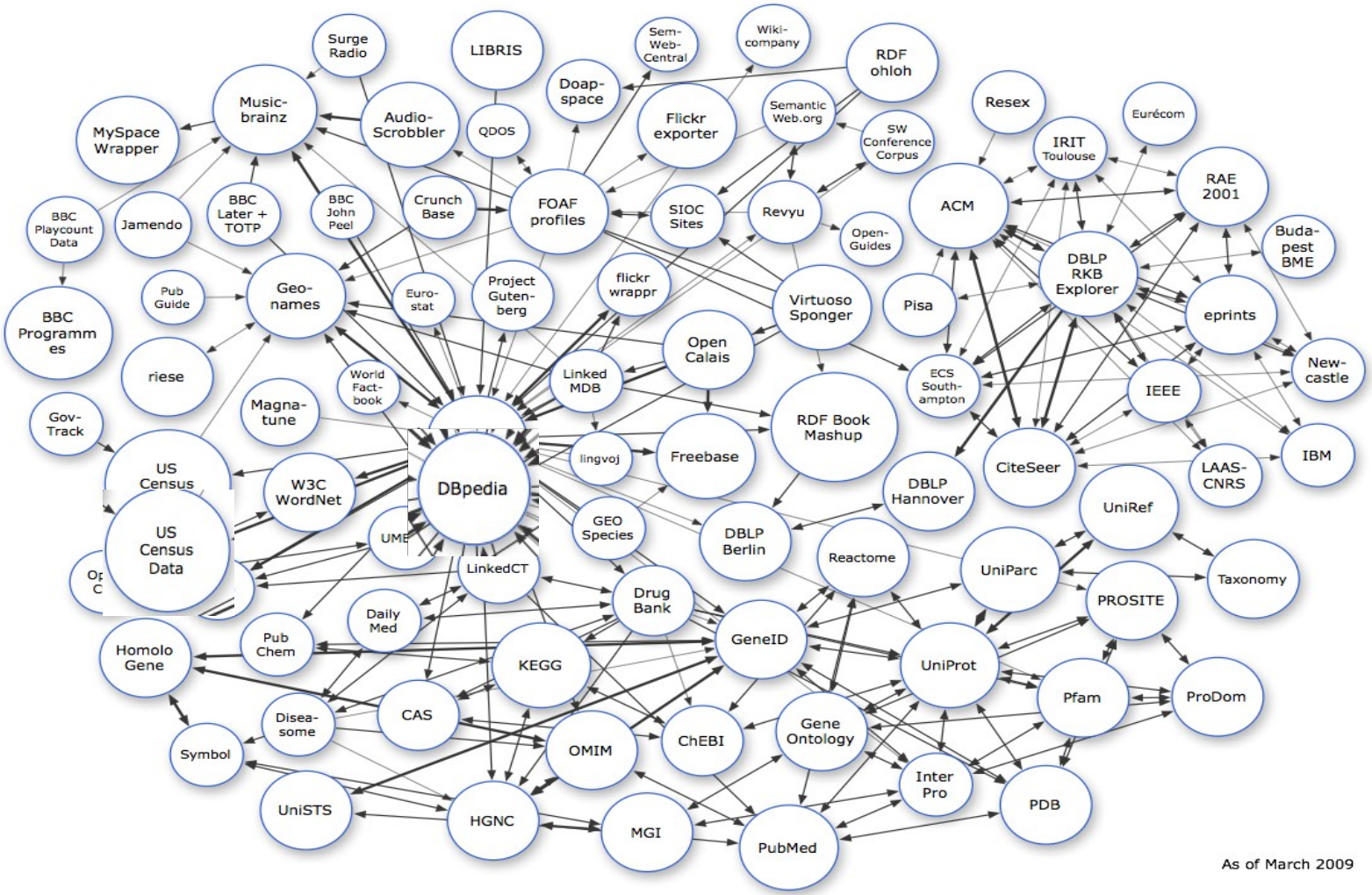
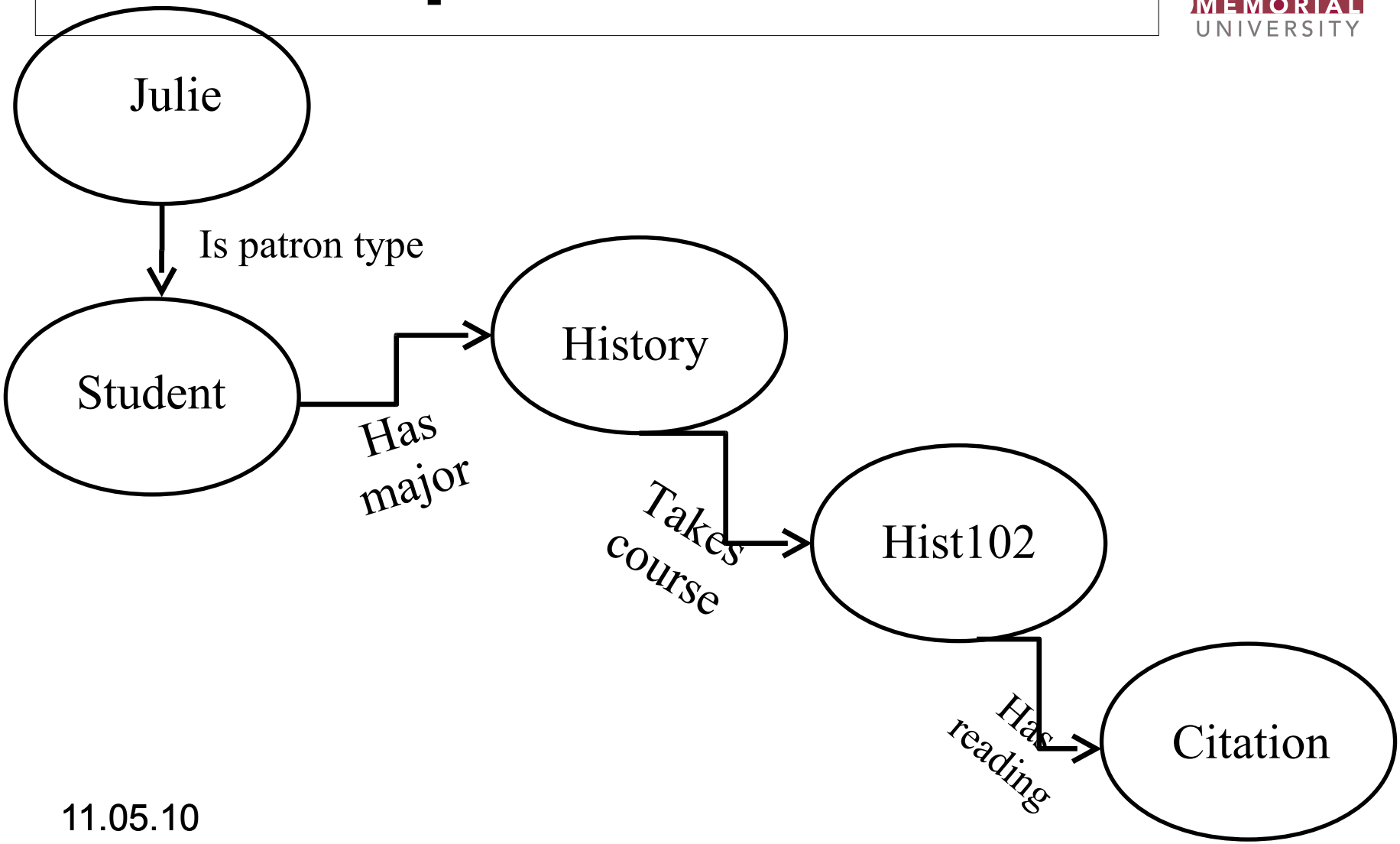
Enriched content



Enhanced personalization



11.05.10

The Holy Grail?

11.05.10

What are the obstacles?

- Privacy
- Trust
- Data ownership
- It's…well…hard

Privacy/Trust

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The largest hurdle to library adoption of Linked Data, though, may not be educational or technological … The sticking point for librarians may be an issue of trust.

- Ross Singer, “Linked Data Now!”

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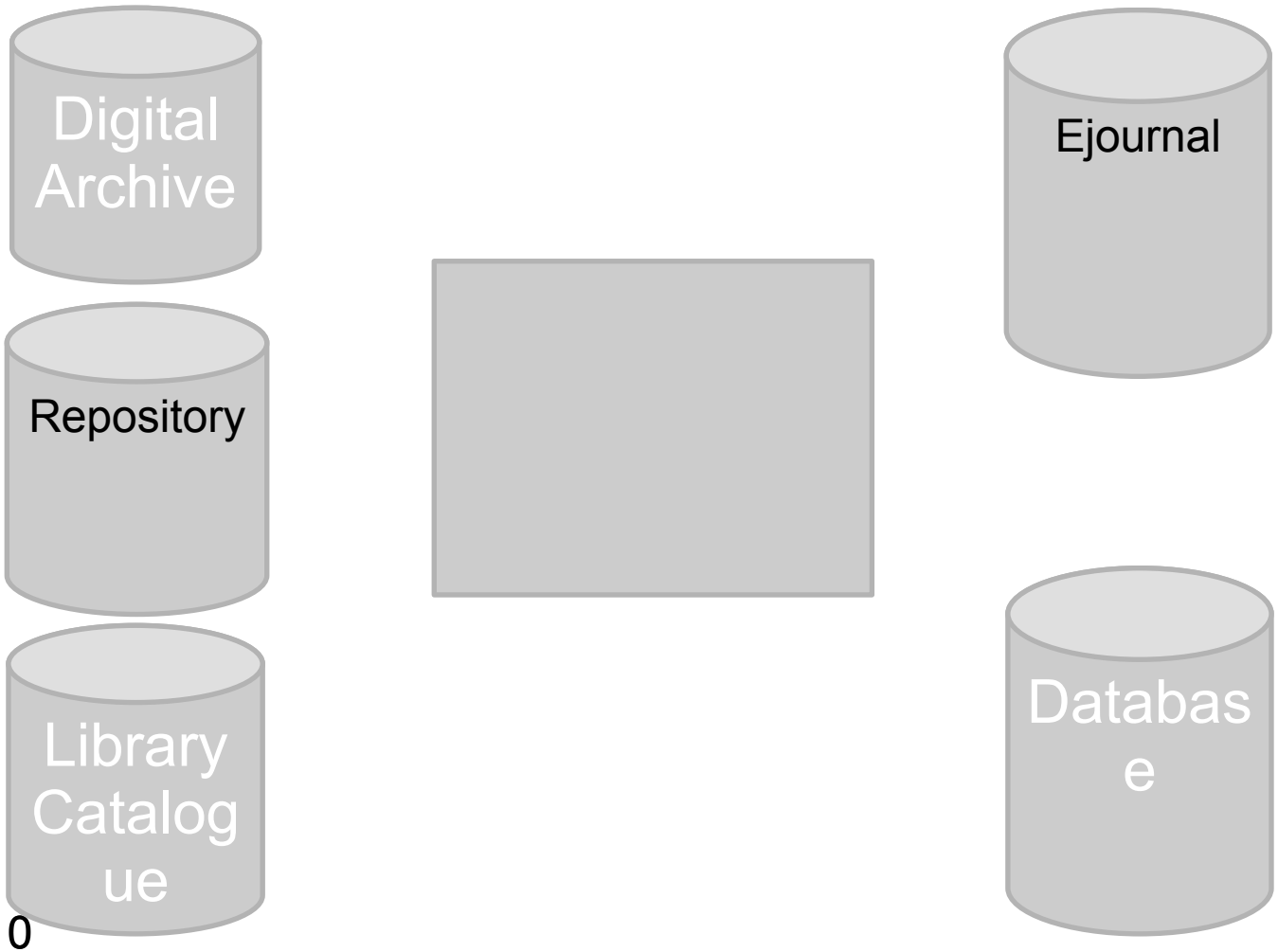
Data ownership



11.05.10

Rocking the foundations

- MARC
- RDA
- DCMI/RDA Task Group

11.05.10

What can we do...now?

- **Eric Miller noted in a 2004 talk that libraries have four major roles in the semantic web:**
  1. exposing collections – use Semantic Web technologies to make content available;
  2. web'ifying thesaurus/mappings/services;
  3. sharing lessons learned;
  4. persistence.

Exposing collections

.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/
OAI-PMH.xsd">
sponseDate>
="oai_dc" set="cns">http://collections.mun.ca/cgi-bin/oai.exe</request>

s/0</identifier>
>

v.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
penarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
<dc:title>Cover</dc:title>
<dc:relation>(4.7 MB) -- http://collections.mun.ca/PDFs/cns/FF_1015_C57.pdf</dc:relation>
<dc:identifier>http://collections.mun.ca/u?/cns,0</dc:identifier>
</oai_dc:dc>
</metadata>
</record>
- <record>
- <header>
<identifier>oai:collections.mun.ca:cns/1</identifier>
<datestamp>2005-10-17</datestamp>
<setSpec>cns</setSpec>
</header>
- <metadata>
- <oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:xsi="http://www.w3.org/200
xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
<dc:title>Inside Cover</dc:title>
<dc:identifier>http://collections.mun.ca/u?/cns,1</dc:identifier>
</oai_dc:dc>
</metadata>
</record>
- <record>
- <header>
<identifier>oai:collections.mun.ca:cns/2</identifier>
<datestamp>2005-10-17</datestamp>
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</header>
- <metadata>
- <oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:xsi="http://www.w3.org/200
xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
<dc:title>Opening Page</dc:title>
<dc:identifier>http://collections.mun.ca/u?/cns,2</dc:identifier>
</oai_dc:dc>
</metadata>
</record>

web'ifying thesaurii, etc.

Cataloguing
NT
Descriptive cataloguing
RT
Authority control (Local)
Subject analysis

Charging/discharging (library materials)
USE **Circulation**

Circulation
UF Borrowing (library materials)
Charging /discharging (Library materials)
Lending (library materials)
Loans (library materials)
RT
Holds (library materials) (Local)
Loan periods (Local)
Recall (library materials) (Local)
Renewals (Local)
Reserve materials (Local)

Citations (Local)
UF Bibliographic citations

Classification

Classification schemes
RT
Controlled vocabularies

Collection development
NT
Selection of materials

Colleges and universities

Computer searching
USE **Online searching**

```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:skos="http://www.w3.org/2004/02/skos/core#">
<skos:Concept rdf:about="http://staff.library.mun.ca/staff/staffdir/libweb/controlled/concept/13" />

<skos:prefLabel>Circulation</skos:prefLabel>
<skos:altLabel>Borrowing</skos:altLabel>
<skos:altLabel>Loans</skos:altLabel>
<skos:scopeNote>Refers to functions related to circulating material, not the administrative
department.</skos:scopeNote>
<skos:narrower rdf:resource="http://staff.library.mun.ca/staff/staffdir/libweb/controlled/concept/38"/>
 <skos:narrower rdf:resource="http://staff.library.mun.ca/staff/staffdir/libweb/controlled/concept/103"/>
<skos:narrower rdf:resource="http://staff.library.mun.ca/staff/staffdir/libweb/controlled/concept/16"/>
<skos:inScheme rdf:resource="http://staff.library.mun.ca/staff/staffdir/libweb/controlled"/>

</skos:Concept>

 </rdf:RDF>
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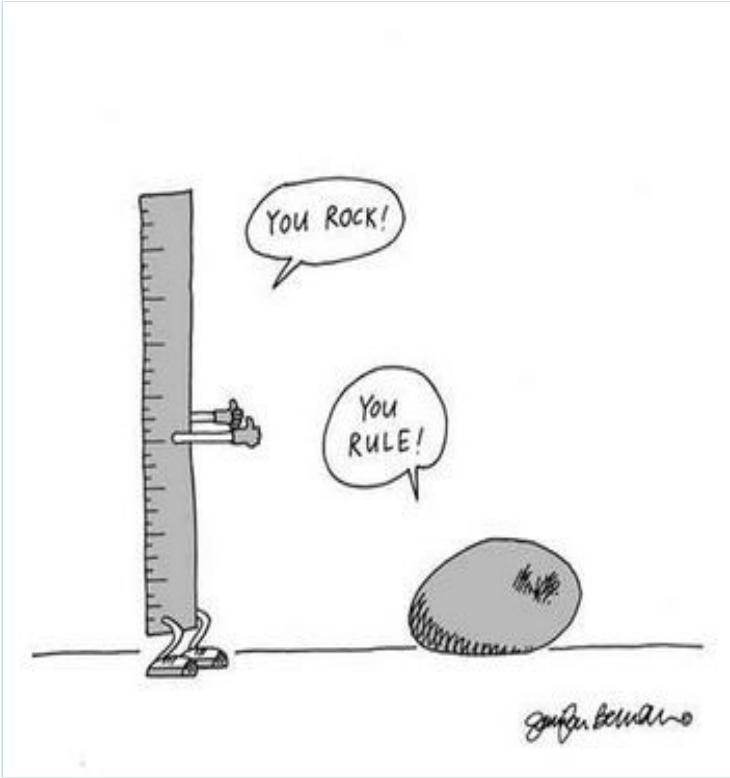
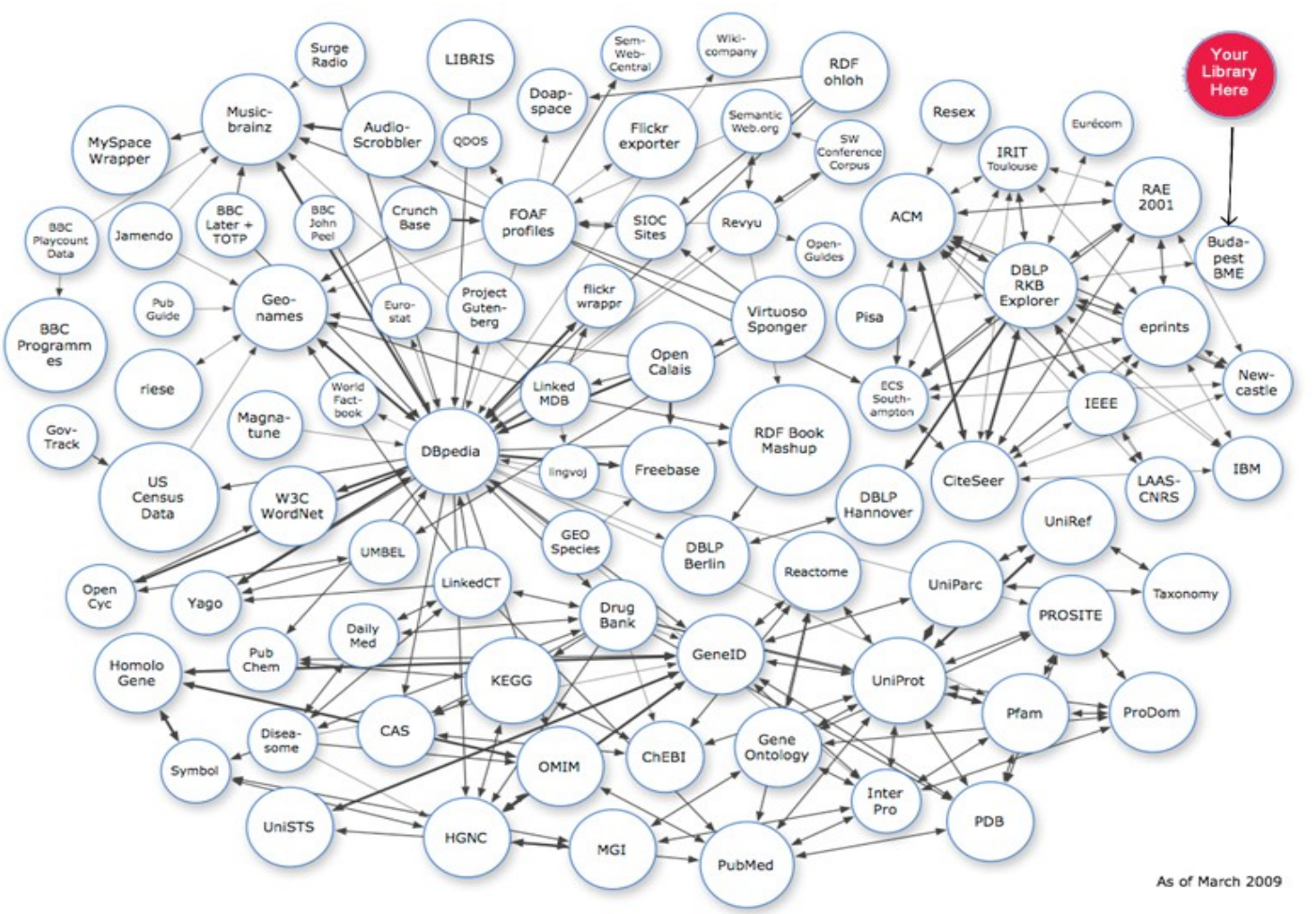
Sharing lessons



11.05.10

Persistence