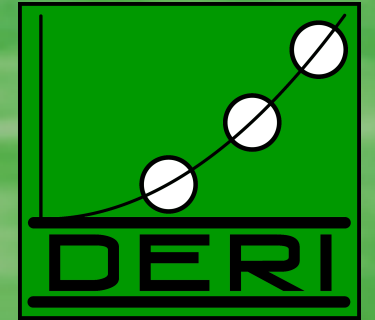




Combine the Web of Data and the Web of Documents Part 2: Drupal

ISWC 2010, Shanghai, 8th November 2010

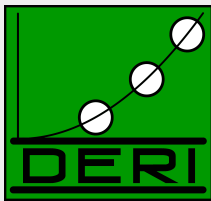
Lin Clark, DERI

lin.clark@deri.org
DERI NUI Galway
November 8, 2010

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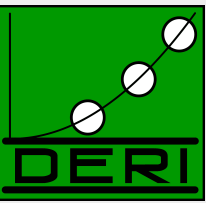
What is Drupal?



Digital Enterprise Research Institute

www.deri.ie

What IS Drupal?



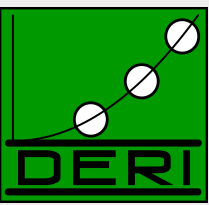
Content Management System

CMS

Content Management Framework

CMF

What IS Drupal?



CMS

A package that a non-developer (or non-Web developer) can download and install quickly and easily to create a complex website

Runs on many servers, particularly Apache and MySQL which are used by many hosting providers

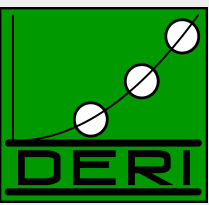
With Drupal 7, setup should take less than 10 minutes

A collection of modules that can be plugged into the main package to bring advanced functionality to the site

At last count in Spring of 2009, there were 4400 modules on Drupal.org

Common quote: "There's a module for that"

What IS Drupal?



CMF

Gets Web developers up and running with functionality quickly, but allows for a very high level of customization

A number of APIs for things such as form creation and processing

Hook system allows external modules to act when something happens in the main body of code

All templates can be overridden at a granular level

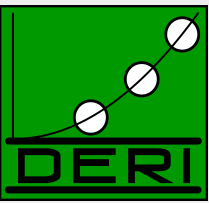
Allows Web developers to package up any custom functionality or configuration and distribute it widely to developers and non-developers alike

Modules

Themes

Installation Profiles and Features

What does RDF in Drupal mean?



CMS

Out of the box, content structures are mapped to RDF


Drupal + RDF

Produce and Consume Linked Data with Drupal

posted on October 22 by **Stéphane**

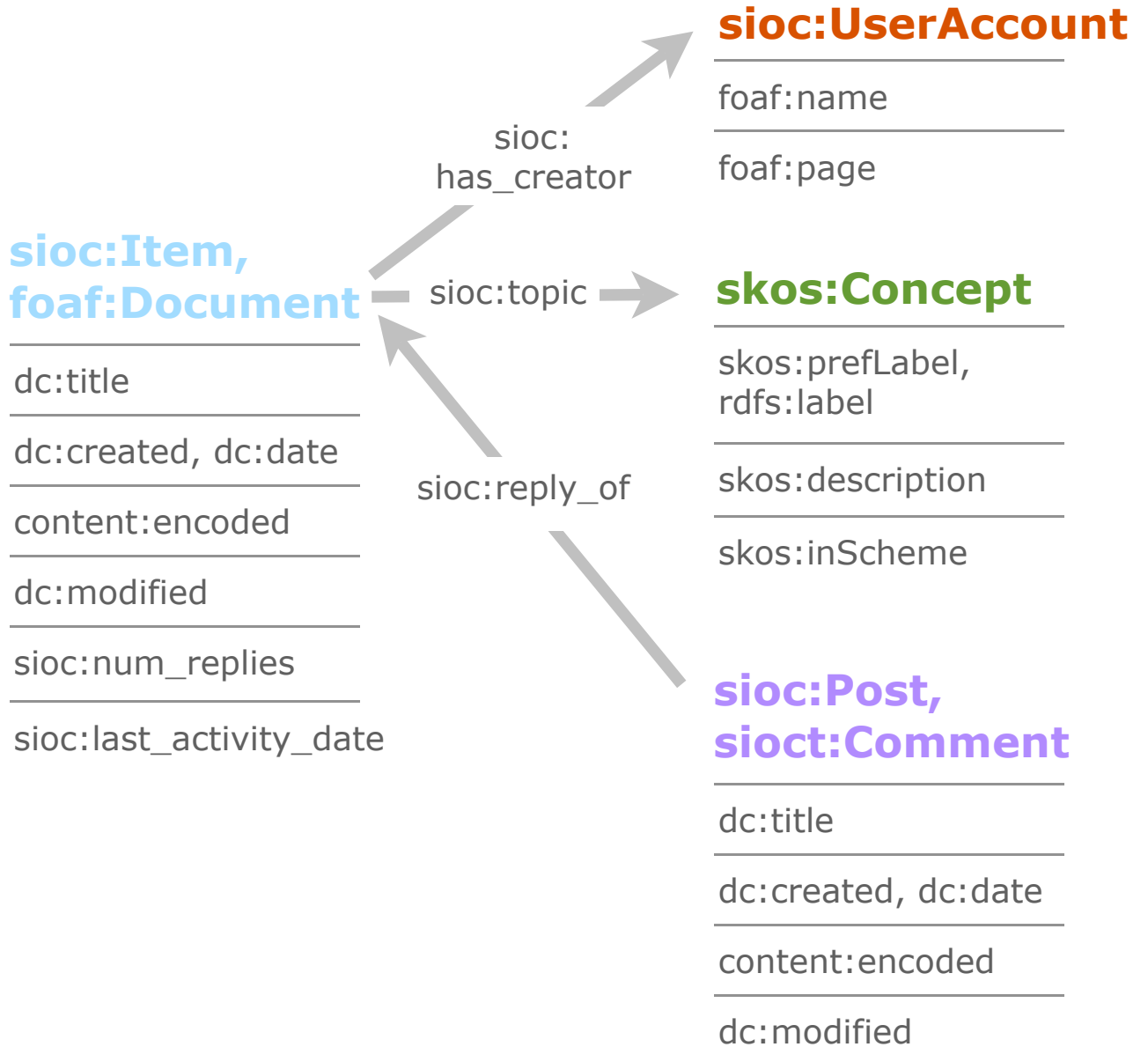
Produce and Consume Linked Data with Drupal! is the title of the paper I will be presenting next week at the 8th International Semantic Web Conference (ISWC 2009) in Washington, DC.

Drupal ISWC RDFa

Wow, that's rad!

posted on October 23 by **Lin**

Nice work!




Drupal + RDF

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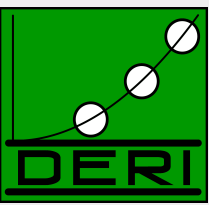
Nice work!

```

posted on
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  October 22
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```

What does RDF in Drupal mean?

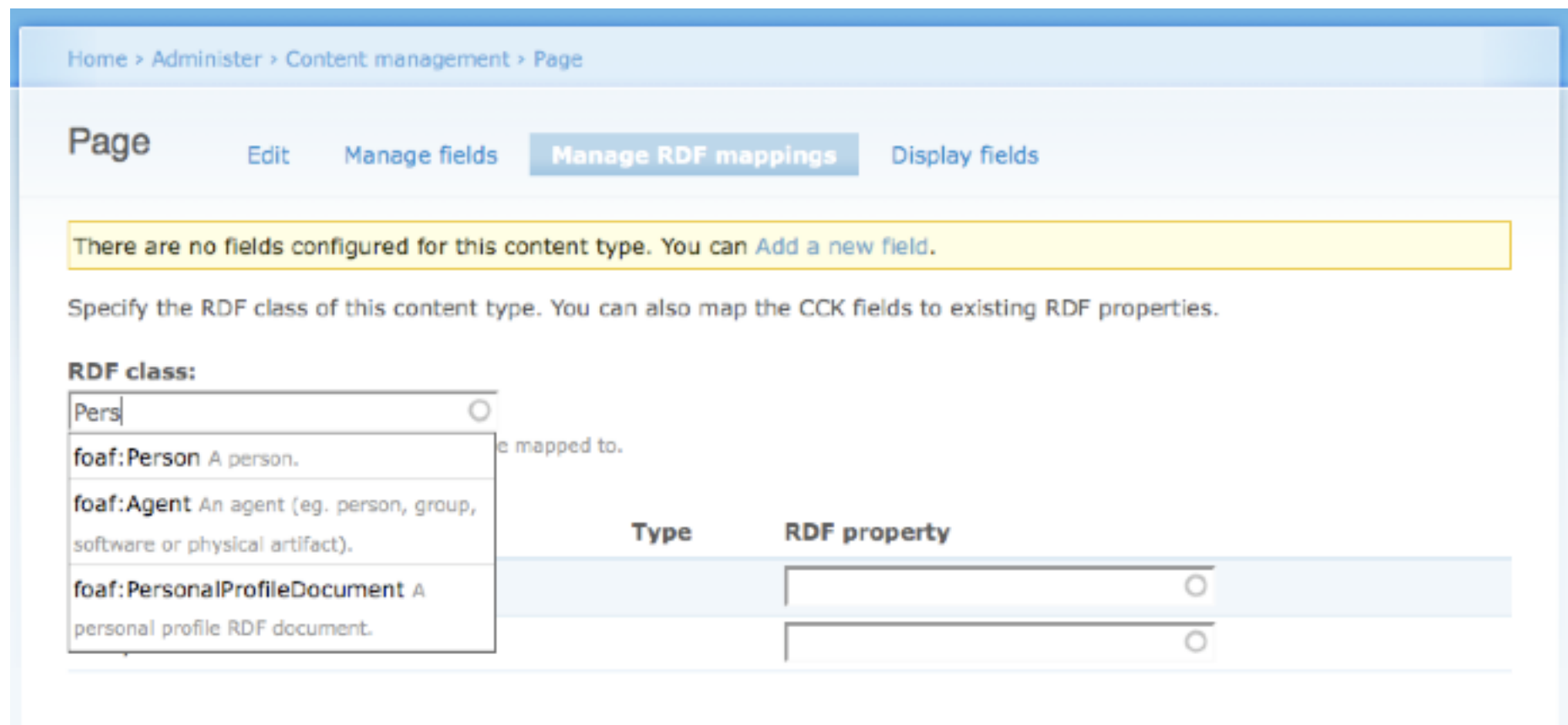


CMS

Out of the box, content structures are mapped to RDF
Contributed modules offer advanced functionality without
having to code anything

RDF Mapping User Interface

User interface for site administrators to define new mappings or alter existing mappings.



Home > Administer > Content management > Page

Page Edit Manage fields **Manage RDF mappings** Display fields

There are no fields configured for this content type. You can [Add a new field](#).

Specify the RDF class of this content type. You can also map the CCK fields to existing RDF properties.

RDF class:

Pers

- foaf:Person A person.
- foaf:Agent An agent (eg. person, group, software or physical artifact).
- foaf:PersonalProfileDocument A personal profile RDF document.

mapped to.

Type	RDF property

RDF SPARQL Endpoint

A RDF store that makes your site information available for SPARQL queries.

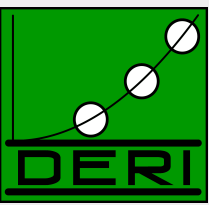
author_name	title
Axel Polleres	inContext Dissemination workshop and focus group
Axel Polleres	inContext Special Interest Group Meeting
Stephane Corlosquet	CFP: 4th European Young Researchers Workshop on Service-Oriented Computing (YR-SOC'09)
Axel Polleres	Dates fixed for the next review meeting in Vienna
Stephane Corlosquet	inContext case studies video
Axel Polleres	Entailment for domain-restricted RDF paper accepted at ESWC2008
Axel Polleres	ESWC 08 submission 119: Best Paper Candidate
Axel Polleres	XSPARQL at the W3C technical plenary!
Axel Polleres	Orri Erling on XSPARQL

SPARQL Views

A way of connecting to external RDF sources and displaying the results within the context of your site, using different styles as appropriate.



What does RDF in Drupal mean?



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CMF

RDF Mapping API in Drupal core package

E-Commerce Module

Item for sale



gr:Offering

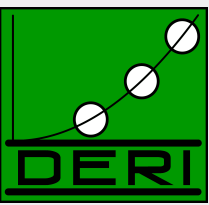
gr:hasPriceSpecification

gr:hasWarrantyScope

gr:hasWarrantyPromise



What does RDF in Drupal mean?



CMS

Out of the box, content structures are mapped to RDF
Contributed modules offer advanced functionality without having to code anything

CMF

RDF Mapping API in Drupal core package
A collection of RDF functions in a contributed API

Drupal Installation and basic mappings

RDF mapping UI

SPARQL Endpoint

SPARQL Views

Tutorials:

lin-clark.com/iswc-tutorials

semantic-drupal.com/setup