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

ISWC 2010, Shanghai, 8th November 2010
Lin Clark, DERI
What is Drupal?
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
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!

sioc:UserAccount
  foaf:name
  foaf:page

sioc:Item, foaf:Document
  dc:title
  dc:created, dc:date
  content:encoded
  dc:modified
  sioc:num_replies
  sioc:last_activity_date

sioc:has_creator

sioc:topic

sioc:reply_of

skos:Concept
  skos:prefLabel
  rdfs:label
  skos:description
  skos:inScheme

sioc:Post, sioc:Comment
  dc:title
  dc:created, dc:date
  content:encoded
  dc:modified
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Drupal  ISWC  RDFa

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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.
**RDF SPARQL Endpoint**

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

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

Payment methods:

- $
- £
- €
- Visa

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

Drupal Installation and basic mappings
RDF mapping UI
SPARQL Endpoint
SPARQL Views

Tutorials:
lin-clark.com/iswc-tutorials
semantic-drupal.com/setup