ACOUID® DREAM IT. DRUPAL IT.



Drupal and the Media Industry

Stéphane Corlosquet EMWRT IX, Sept 2013, Amsterdam

Agenda

1. Introduction

- 2. The case for Drupal in Media
- 3. Drupal and Acquia in the Enterprise
- 4. Drupal and Semantic content
- 5. Q&A discussion

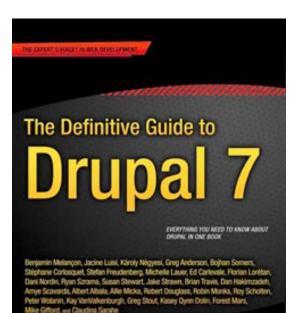


About the speaker

Stéphane "scor" Corlosquet

- 7 years with Drupal
- Software engineer
- Drupal 7 RDF core maintainer
- Drupal Security Team member
- Co-author
- Contrib modules: RDF Extensions, SPARQL, schema.org, WebID
- Member of the RDFa WG at W3C

Acould





Apres

Recurring Concerns in Media

- Building consistent, scalable & highly branded experiences
- Struggling to unify cross-channel digital experiences

 mobile, social, and the web –
- Attaining flexibility to configure and extend web platform
- Functional limitations to integrate and expand capabilities
- Reducing costs to build and enhance digital experiences



Drupal is the Largest Open Source Community in the World

Drupal Open source, web phenomenon

Market Presence2,000,000+ sitesGlobal Adoption228 countriesExtensive Capabilities22,000+ modulesBroad Community900,000+ membersActive Development27,000+ developers

2X the size of Linux developer community



Drupal Adoption in Key Verticals

- 5 of the Big 6 US media companies
- 11 of the top 18 US media brands
- 71 of the top 100 universities worldwide
- 3 of the top 3 global music companies
- 130 nations using Drupal for gov't websites
- 2 top global pharmaceutical companies







the official



GET OUR NEW MTVBASE CHART SHOW APP

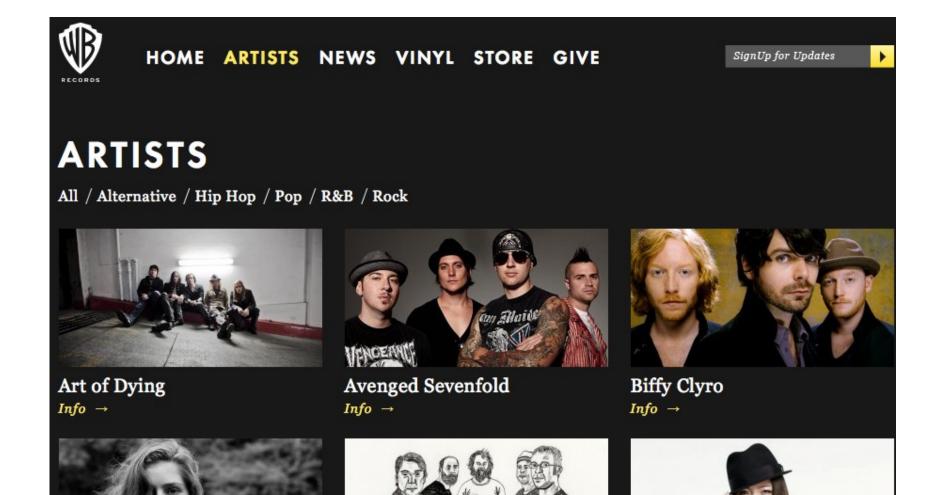
Check out the latest Base Chart, have your vote and get all the latest Urban news sent straight to your phone.



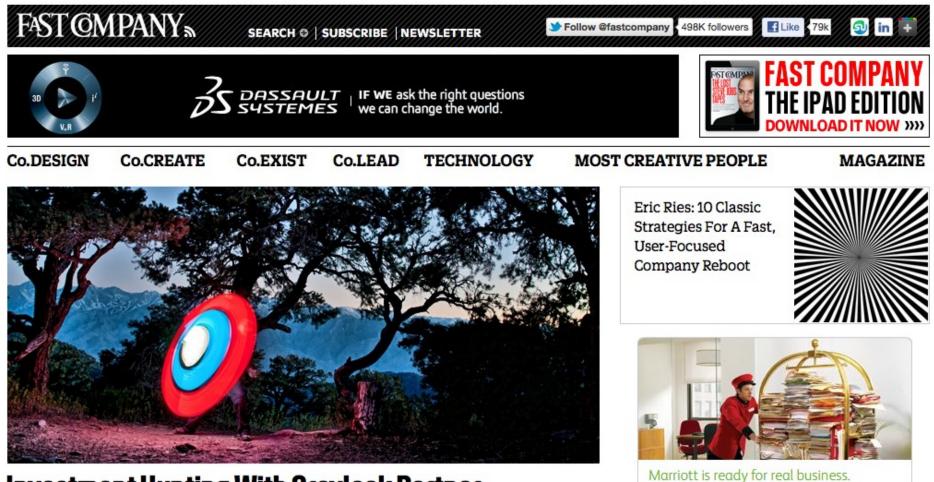




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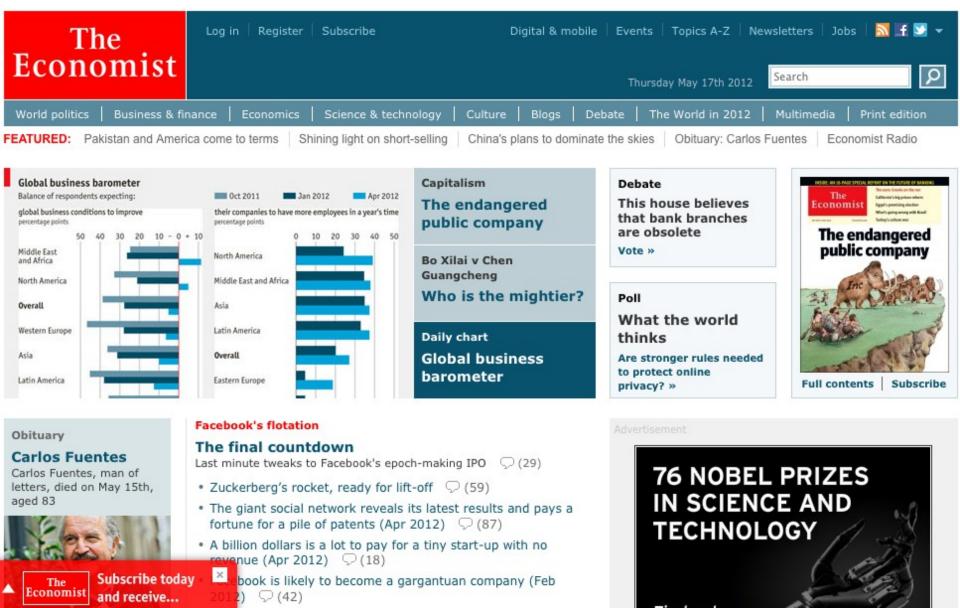




Investment Hunting With Greylock Partner, Instagram Backer John Lilly

Ready For Real Business 🛛 🗙 🏹

Are you?



ACOUID® DREAM IT. DRUPAL IT.



Acquia is the Enterprise Guide to Drupal



Acquia Named to America's Top **One-Hundred** Most Promising Companies

read more



- Co-founded by the creator of Drupal in 2007
- Acquia Network: Supports 18,000+ sites
- Acquia Cloud, The First Global Drupal PaaS
 - 9 Billion Requests/month
 - 140 Terabytes of content per month
- 2013 Forrester Wave for Web Content
- Management
- Positioned as Visionary by Gartner 3X
- One of the top 10 software companies on the Inc. 500 two years running.

Dries Buytaert, Creator of Drupa



Acquid

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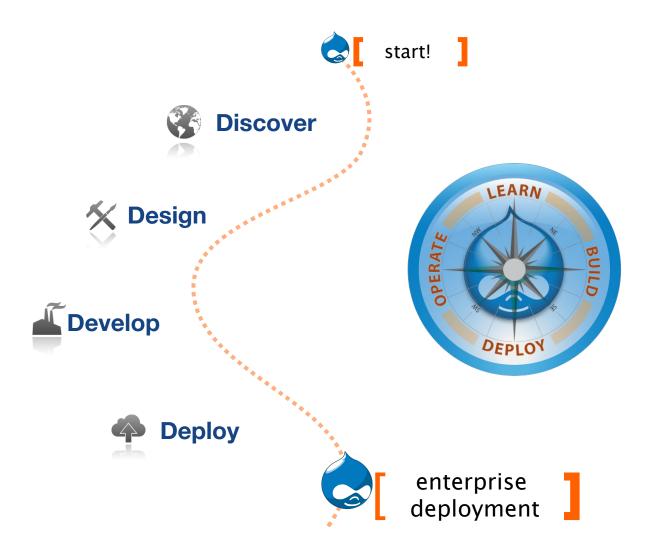
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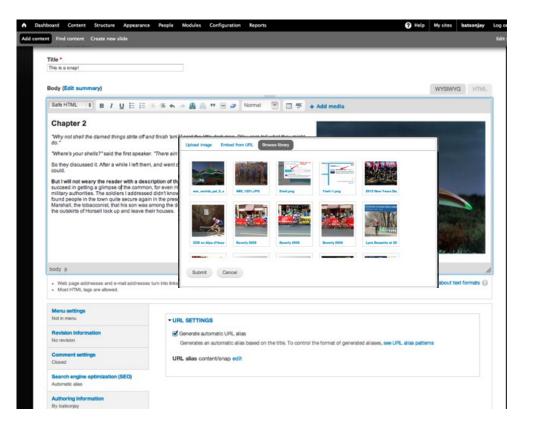
Acquia is the Enterprise Guide to Drupal



Professional Services ACOUIC®

Content Authoring

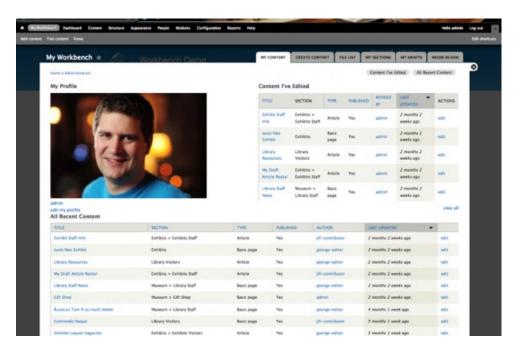
- Managed at Department level
- WYSIWYG editing
- Content & presentation separation
- Rich media integration & controls
- Drag and drop page layouts





Editorial Workflows

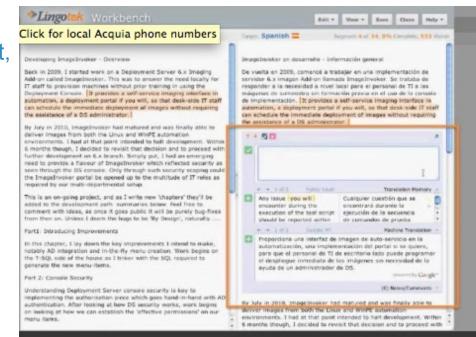
- Content creator/editor workbench
- Review, approval, publishing workflows
- Change reviewing
- Content versioning
- Role-based interface & permissions





Language Translation and Multi-Site

- Multilingual content
 - Support for handling text content, fields, variables, …
 - Language translation workflow
- Localized Drupal UX
- Single site and multisite





Manage Sites & Push Changes at Scale with Site Factory

Central Dashboard for Multisite Management

- Keep all your sites in sync and reduce maintenance headaches
- Access, manage and monitor sites in one place
- Apply new Drupal configurations across any number of sites with a single click





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Automated Maintenance with Insight

Acquia Insight tracks module "updated-ness" – we investigate for you!

ght/modules?s=1721		🚖 Ġ 🌆 🌄 🕲 🔄 🔻 🍊 🕄 🚷 Google	ght.acquia.com/insight/modules/diff/1130689226?s=		
Support Info Current Sub: Dev Cloud Demo Hosting: Dev Cloud Edit Sub (D5) View Sub (D5)	Under the hood The Insight score for your site is representative of your security, performance, and best practices scores. How is this score generated?	Insight score How is this calculated? 67%	Support Info Current Sub: Dev Cloud Demo Hosting: Dev Cloud Edit Sub (DS) View Sub (DS)	Data for Module: Theme developer << back Module Version: 7.x-1.x-dev Drupal.org Project Page:	
Dashboard [‡] *	Page caching disabled	Help me fix it 🛛 🛇	Dashboard **	http://drupal.org/project/devel_themer	
🔻 Insight	Overview Code Server Statistics		Insight Overview	Changed or New Files:	
Overview Analysis			Analysis	File: sites/all/modules/devel_themer/devel_themer.css	
SEO Grader	Distribution		SEO Grader	We were unable to request this file's contents from your site.	
Cloud	Distribution name:	Drupal	Cloud	This is either caused by you opting not to provide file contents for dif	
Search	Base Drupal version:	7.19	Search	File: sites/all/modules/devel_themer/devel_themer.info	
	Code altered:	No		We were unable to request this file's contents from your site.	
ules?s=1721		🚖 🕒 🔤 🌌 🖉 🍉 🏠 🗵 C 💽 🚷 - Google	Last Data Update	This is either caused by you opting not to provide file contents for dif	
	Module name Vers	sion Modified	Configuration check: 2013-02-11 14:48PM		
	Taxonomy 7.19 Code examination:			File: sites/all/modules/devel_themer/devel_themer.js	
		19	2013-02-11 14:48PM	We were unable to request this file's contents from your site.	
		x-1.x-dev View diff (rp)	View Full History	This is either caused by you opting not to provide file contents for dif	
		x-1.4			
		19		File: sites Adjumules/devel_themer/devel_themer.module	
		19			
		×-3.5			





Insight

Easily Deploy using staging tools



Git URL: devcloud2@svn-3.devcloud.hosting.acquia.com:devcloud2.git

Dev visit ₪ Online	Stage visit @ 🔅 - Online	Prod visit 🖗 🔅 🗸 Online, Production Mode
the Code:	+ Code: tags/WELCOME \$	+ Code: tags/2011-10-25 \$
+ Files		+ Files
+ DB: devcloud2	+ DB: devcloud2	+ DB: devcloud2
+ DB: magic	⊕ DB: magic	+ DB: magic
+ DB: new_db	+ DB: new_db	+ DB: new_db

Continuous Integration Workflow Reduces Customization Risk

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- Extend the base Drupal distribution through a shared codebase applied to all sites
- Validate production-readiness of your custom code
- Test customizations in a sandbox and deploy to all production sites when ready



Multiple Paths to Drupal Success



Acquia role

- · Training
- Development support
- · Maintenance

Customer role

- · Site planning
- Architecture design
- · Project management
- · Site development
- · Testing
- · Deployment



Acquia role

- · Training
- · Site planning
- Architecture design
- Development support
- · Code validation
- Maintenance

Customer role

- · Project management
- · Site development
- Testing
- Deployment

3 Advise, Architect & Deliver

Acquia role

- · Training
- · Site planning
- · Architecture design
- · Project management
- · Build to specif cation
- · Development support
- · Testing
- Deployment
- · Maintenance

Customer role

· Focus on business goals



Acquia Network



- · Support & maintenance
- Network services
- Cloud deployment
- · Developer tools
- Drupal monitoring
- Performance testing



Semantic Content in Drupal



The Web today: Many information silos



Challenges

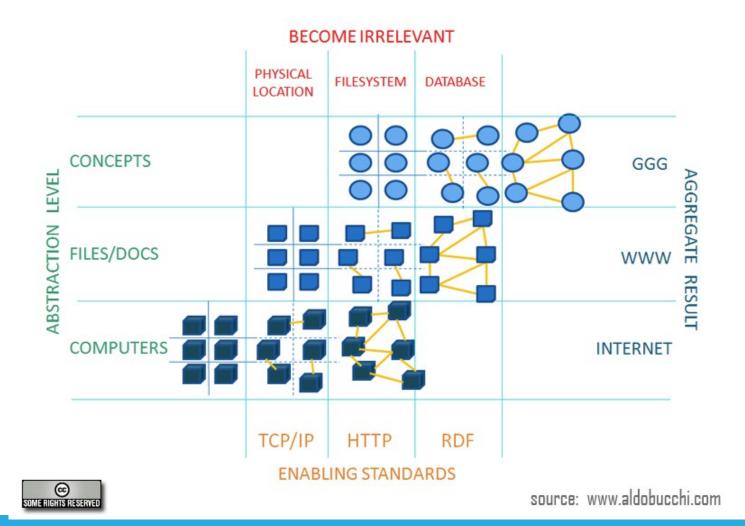
- Growing amount of information

- How can machines help us manage and search all this information?

- How can we help machines to understand this information?

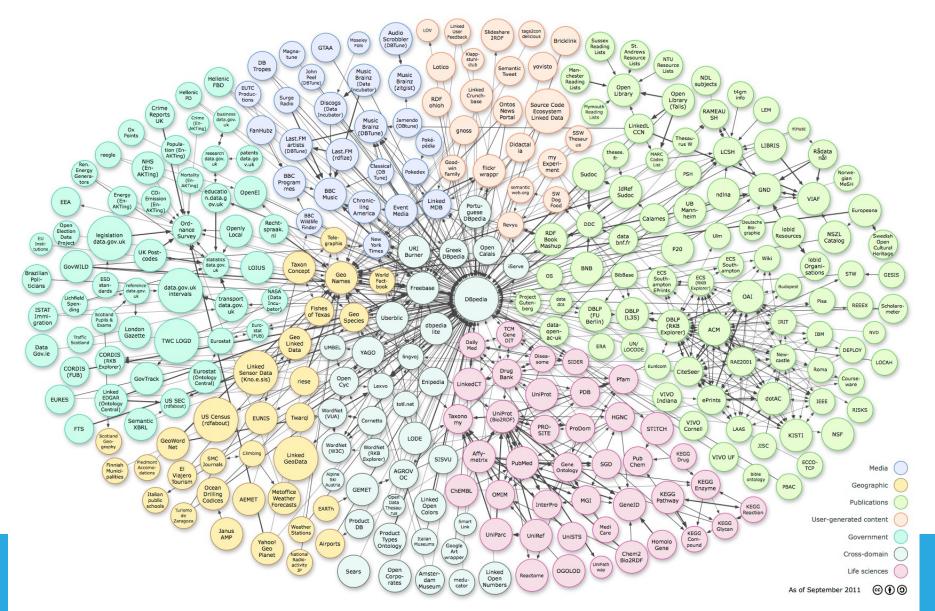


Evolution of the Web





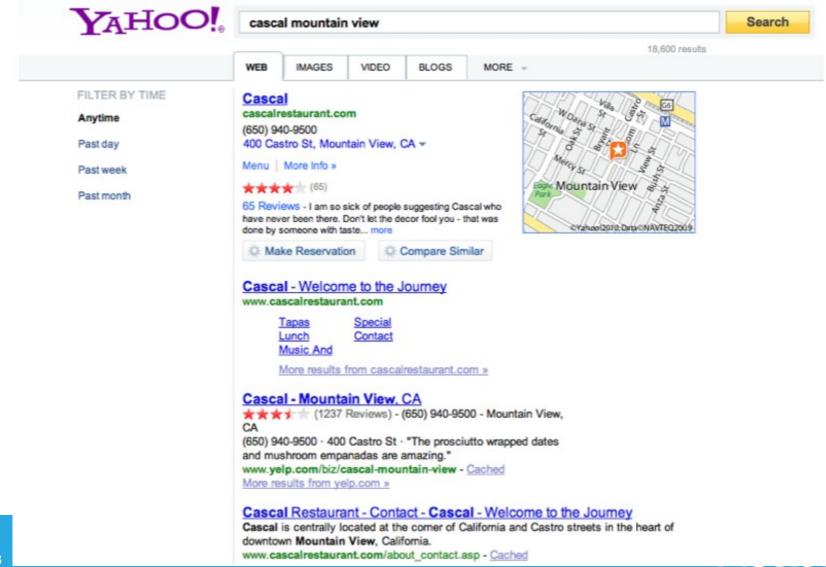
Linked Open Data Cloud



Google

Googl	e	banana bread recipes	
Search		About 5,210,000 results (0.40 seconds)	
Everything		Banana Banana Bread Recipe - Allrecipes.com + Q	
Images		allrecipes.com/recipe/banana-banana-bread/ - Cached	
		Why compromise the banana flavor? This banana bread is moist and delicious with	
Maps		loads of banana flavor! Friends and family love my recipe and say it's by far	
Videos		Banana Bread I Recipe - Brown Sugar Banana Nut Bread I - Nutty Banana Bread	
News		Banana Bread Recipes - Allrecipes.com	
		allrecipes.com > Recipes > Bread - Cached	
Shopping		Looking for the perfect banana bread recipe? Allrecipes has more than 120	
Recipes		Janet's Rich Banana Bread Recipe - Allrecipes.com 🖅 🔍	
		allrecipes.com/recipe/janets-rich-banana-bread/ - Cached	
More		**** 1327 reviews - 1 hr 10 mins - 218 cal	
		Sour cream guarantees a moist and tender loaf. And bananas are sliced	
San Francisco.	CA		
Change location		Show more results from allrecipes.com	
		Banana Bread Recipe Simply Recipes 💷 🔍	
Ingredients	Yes No	simplyrecipes.com/recipes/banana_bread/ - Cached	
bananas		1 hr 5 mins	
baking soda		Jun 15, 2006 – Moist and delicious classic banana bread recipe. Easy to make, no	
walnuts		need for a mixer. Ripe bananas, butter, sugar, egg, vanilla, baking soda,	
pecans	00	Banana Nut Muffins - Orange Bread - Glazed Lemon Bread	
vanilla extract	00		
baking powder	00	Banana Bread Recipe :: Food Network 🐨 🔍	
cinnamon		www.foodnetwork.com > Recipes > Baking > Bread - Cached	
sour cream		3 days ago - Food Network invites you to try this Banana Bread recipe.	

Yahoo!



Bing!

bing Web

avatar reviews

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Avatar Review

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Never before have so many cynics wanted to hate a movie, and never have they been so thoroughly thwarted, as with James Cameron's Avatar. I had more than my share of ... www.pastemagazine.com/articles/2009/12/avatar-review.html

Avatar Reviews, Ratings, Credits, and More at Metacritic

Expert score: 83/100 · PG-13 · 162 min · 35 reviews Jake Sully is a former Marine confined to a wheelchair. But despite his broken body, Jake is still a warrior at heart. He is recruited to travel light years to the ... www.metacritic.com/redirectcritic?m=avatar

Structured Data in HTML

- Helps machines extract relevant data from HTML
- Can make use of this data in new ways:



- enhanced search results
- Knowledge graph
- Search engines only index HTML



Schema.org

schema.org			Search
	Home	Schemas	Documentation

What is Schema.org?

This site provides a collection of schemas, i.e., html tags, that webmasters can use to markup their pages in ways recognized by major search providers. Search engines including Bing, Google and Yahoo! rely on this markup to improve the display of search results, making it easier for people to find the right web pages.

Many sites are generated from structured data, which is often stored in databases. When this data is formatted into HTML, it becomes very difficult to recover the original structured data. Many applications, especially search engines, can benefit greatly from direct access to this structured data. On-page markup enables search engines to understand the information on web pages and provide richer search results in order to make it easier for users to find relevant information on the web. Markup can also enable new tools and applications that make use of the structure.

A shared markup vocabulary makes easier for webmasters to decide on a markup schema and get the maximum benefit for their efforts. So, in the spirit of sitemaps.org, Bing, Google and Yahoo! have come together to provide a shared collection of schemas that webmasters can use.

We invite you to get started!

New! View our blog at blog.schema.org.



schema.org

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Thing > Event An event happening at a certain time at a certain location.

Property	Expected Type	Description
Properties fro	om Thing	
description	Text	A short description of the item.
image	URL	URL of an image of the item.
name	Text	The name of the item.
url	URL	URL of the item.
Properties fro	om <mark>Event</mark>	
attendees	Person or Organization	A person attending the event.
duration	Duration	The duration of the item (movie, audio recording, event, etc.) in ISO 8601 date format.
endDate	Date	The end date and time of the event (in ISO 8601 date format).
location	Place or PostalAddress	The location of the event or organization.
offers	Offer	An offer to sell this item-for example, an offer to sell a product, the DVD of a movie, or
performers	Person or Organization	The main performer or performers of the event—for example, a presenter, musician, or a
startDate	Date	The start date and time of the event (in ISO 8601 date format).

Schema.org

Describe the type of your content (Person, Event, Recipe, Product, Book, Movie, etc.)

- 416 types and counting
- Each type has a set of properties
 - Common properties: name, description, image, url
 - Specific properties depending on the type (see type page on schema.org)
 - 544 properties and counting



How does schema.org apply to Drupal?

Content types



Content Type	Fields
Article	TitleAuthorPublished
Event	NameDateLocation
Related Stories	• Title • Author • Link



13m	X	Did you and your kid you did. Well now yo Flynn Ryder himself, That's right Zachary movie one sheet pos one plus a bonus pri	u can win a Tangled Mr. Zachary Levi of Levi is signing a bur ters and one of my	f poster signed by TV's CHUCK. Inch of Tangled readers can win
		Kan Murray Boston Novie Examiner Browne more Arts & B	nartalisment articles	
Win a TANGLED	Mirrar westance	Danny Woodhead	Winter Storm	Styling unusual

Breaking News Story

Architecture

User driven data model





Schema.org module for Drupal

Map your content types and fields to the schema.org terms

Type	
ApartmentComplex ArtGallery Article	
DepartmentStore	
NewsArticle PerformingArtsTheater ScholarlyArticle VisualArtsEvent	

http://drupal.org/project/schemaorg

Content types and Fields

cussions o		EDIT MANAGE FIELDS MAI
LABEL	NAME	FIELD
	title	Node module element
+ Body	body	Long text and summary
🕂 Featured Image	field_forums_image	Image
+ Related Content	field_related_content	Node reference
+ References	field_references	Node reference
+ Attachment	field_forums_attachment	File
🕂 XML sitemap	xmlsitemap	XML sitemap module element
+ URL redirects	redirect	Redirect module form elements
🕂 URL path settings	path	Path module form elements
+ Subscription terms	field_subscription_term	Term reference
+ Add new field		
Label	field_ Field name (a-z, 0-9, _)	- Select a field type -
Laber	rielu fiame (a=2, 0=3, _)	Type of data to store.

Content types and Fields

Number of values

Unlimited -

Jobs

Maximum number of values users can enter for this field. 'Unlimited' will provide an 'Add more' button so the users can add as many values as they like.

Content types that can be referenced
Basic page
✓ Blogs
Bulletin Board
Clinical Trials
Collection
✓ Discussions
Drugs
Sesays and Opinions
Funding Opportunities
Image Slidehow



Content types and Fields

LOCATION SCHEMA.ORG MAPPING

Property		
locatio		
contentLocation	ld.	
homeLocation		
jobLocation		
location		
workLocation		



Rich Snippet testing tool

http://www.google.com/webmasters/tools/richsnippet

Dries Buytaert | Schema.org Drupal 7 playground

schema.openspring.net/person/dries-buytaert - Cached Co-founder & CTO - Acquia

The excerpt from the page will show up here. The reason we can't show text from your webpage is because the text depends on the query the user types.

2014 Winter Olympics | Schema.org Drupal 7 playground

schema.openspring.net/event/2014-winter-olympics - Cached

Feb 7, 2014 - Sochi, Russia

The excerpt from the page will show up here. The reason we can't show text from your webpage is because the text depends on the query the user types.

Apple pie | Schema.org Drupal 7 playground



schema.openspring.net/recipe/apple-pie - Cached 30 mins - 155 cal

The excerpt from the page will show up here. The reason we can't show text from your webpage is because the text depends on the query the user types.



Schema.org module

- http://drupal.org/project/schemaorg
 - UI for mapping content types and fields to schema.org
 - Documentation on drupal.org
 - Screencast + examples



Content in Drupal

Edit Tra

Track Devel

NEWS SYNTHESIS | 2 JUN 2012

View

Moving Toward Convictions

Risk VI: New strategies to root out the cause of MS



If the hunt for causes of multiple sclerosis were a simple murder mystery, investigators might be having an easier time cracking the case. The disease detectives must identify the multiple agents, rather than a lone perpetrator, that lead to the disease—and unravel how the culprits work individually and together. To complicate the inquiry further, each contributor might begin causing damage decades before the disease begins. And finally, the ultimate test of causation—restraining or removing a suspect and assessing whether the disease diminishes in response—isn't generally practical because methods do not exist to contain most of the candidate troublemakers.

Nonetheless, MS investigators have drawn up an inventory of top suspects, which include a lack of vitamin D (see "The Sunshine Suspect"), the Epstein-Barr virus (EBV) and the infectious mononucleosis that it can cause (see "Viral Villain"), certain genes (see "Genetic Associations" and "Nature, Nurture, and What's in Between"), female gender (see "Discriminatory Disease"), smoking, and stress (see "Where There's Smoke (and Stress), Is There Fire?"). To build a case against these characters, researchers are measuring the strength of the associations between the potential wrongdoers and the

Related Content

NEWS SYNTHESIS | 2 APR 2012 Whodunit?

NEWS SYNTHESIS | 2 APR 2012 The Sunshine Suspect

NEWS SYNTHESIS 2 APR 2012

SEE FULL LIST»

News Highlights



The Next Frontier What's in the future? Check out the "Key open questions" at the end of most MSDF news stories 108 READS

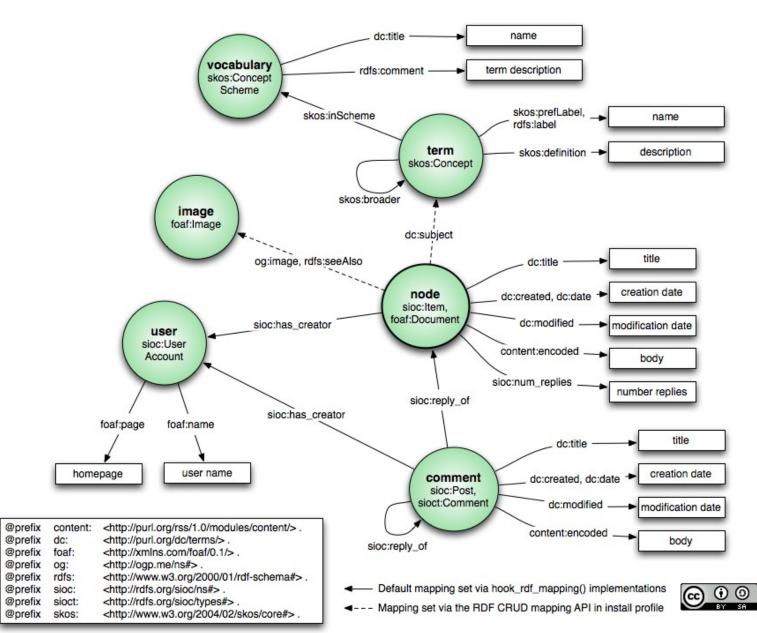


Drupal 7 and RDF

- The RDF mapping API allows any vocabulary
- Default mappings on blogs, forums, comments, etc. using FOAF, SIOC, DC, SKOS
- Drupal 7 core outputs these mappings in RDFa
- Mappings can be changed to include other vocabularies like schema.org



Drupal 7 default RDF mappings



Drupal 7 and RDF

Contributed module for more features

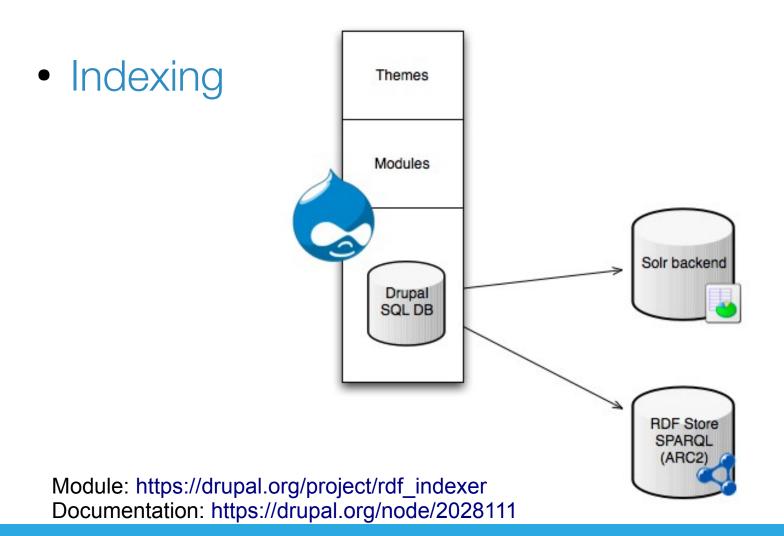
- RDF Extensions
 - Serialization formats: RDF/XML, Turtle, N-Triples
 - Mapping UI
- RDF Indexer
 - Expose Drupal RDF data in a SPARQL Endpoint
- SPARQL Views
 - Display remote RDF data in Drupal using SPARQL
- JSON-LD
 - Expose Drupal RDF data as JSON-LD (CORS-enabled)
- Features and packaging
 - Build distributions / deployment workflow



Drupal and SPARQL



RDF store + SPARQL Endpoint





RDF store + SPARQL Endpoint

• Public endpoint available at /sparql

ARC SPARQL+ Endpoint (v2011-12-01)

This interface implements SPARQL and SPARQL+ via HTTP Bindings.

Enabled operations: select, construct, ask, describe, load, insert, delete, dump

Max. number of results : 500

SELECT * WHERE { GRAPH ?g { ?s ?p ?o . }	Options
IMIT 10	Output format (if supported by query type): default +
	jsonp/callback (for JSON results)
	API key (if required)
	Show results inline:

Change HTTP method: GET POST

Send Query Reset

RDF store + SPARQL Endpoint

- Example: popular tags by comments
 - http://openspring.net/sparql

```
PREFIX dc: <http://purl.org/dc/terms/>
PREFIX sioc: <http://rdfs.org/sioc/ns#>
SELECT ?tag sum(?replies) as ?total_replies
WHERE {
    ?post sioc:num_replies ?replies.
    ?post dc:subject [ rdfs:label ?tag ] .
}
GROUP BY ?tag
ORDER BY DESC(?total_replies)
```

tag	total_replies
Drupal	25
Planet Drupal	21
RDFa	19
RDF	19
conference	9
paper	9
Linked Data	8
ISWC	8





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- @scorlosquet
- http://openspring.net/

