Drupal 7 and Semantic Web Hands-on Tutorial



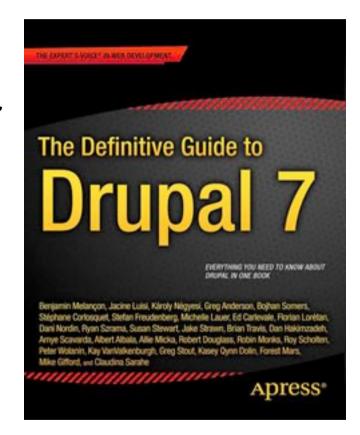
Rich Snippets



Stéphane Corlosquet, <scorlosquet@gmail.com>
Austin, TX – Sat, October 1st 2011

About the speaker

- 5 years with Drupal
- Drupal core maintainer (RDF)
- Drupal Security Team member
- Co-authored the Definitive Guide to Drupal 7
- Co-maintain RDF Extensions, SPARQL, schema.org
- Software engineer at MIND Informatics in Boston.



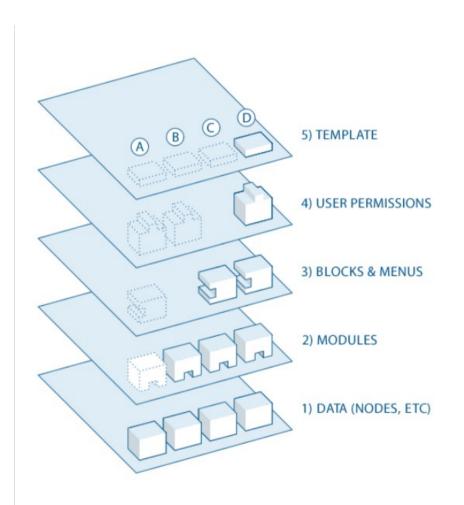
What is Drupal?

Drupal

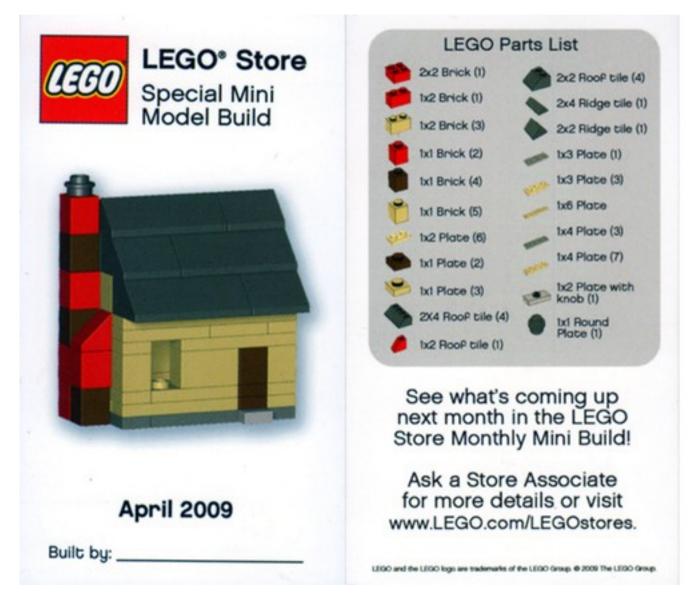
- Small news site in 2000
- Open Source 2001
- Content Management System
- LAMP stack
- Non-developers can build sites and publish content
- Control panels instead of code



Drupal



- Open & modular architecture
- Extensible by modules
- Standards-based
- Low resource hosting
- Scalable





http://www.flickr.com/photos/georgivar/4795856532/

 Create the content types you need:

Blog, article, wiki, forum, polls, image, video, podcast, e-commerce... (be creative)

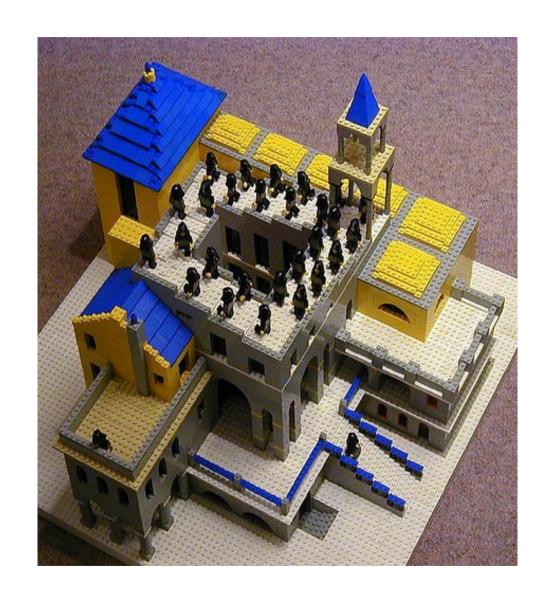


Enable the features you want:

Comments, tags, voting/rating, location, translations, revisions, search...



- Place links in the navigation bars and blocks
- Build Views over your data



Thousands of free contributed modules

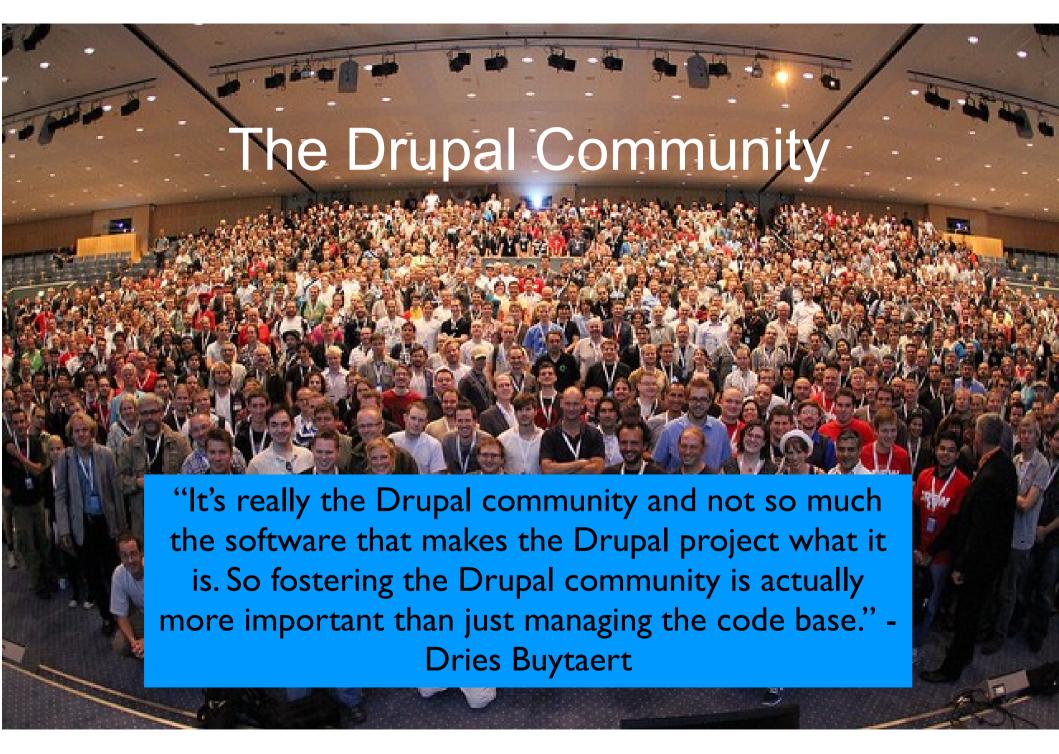
- Google Analytics
- Wysiwyg
- Captcha
- Calendar
- XML sitemap
- Five stars
- Twitter
- ...



Drupal inside

- Database storage (PDO)
- Cron
- Queue / batch API
- File management
- User management
- Form API
- Security





200+ Local user groups



including http://groups.drupal.org/boston

Doubles in size each release

- Drupal 6 330,000+ sites
- Drupal 7 160,000+ sites

• Estimation of 2% of the Web (source: Dries Buytaert)



The President discusses the benefits of health reform that Americans will receive in the first year, and how reform will help build a new foundation for American families.

Watch the Video

1 2 2 4



Samantha Appleton, 1/8/10

A NEW FOUNDATION



The President's Plan for Health Insurance Reform

Cut through the rhetoric on health insurance reform. Read the essentials of the President's plan, and watch a video with highlights of his speech to Congress.

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PHOTO of the DAY

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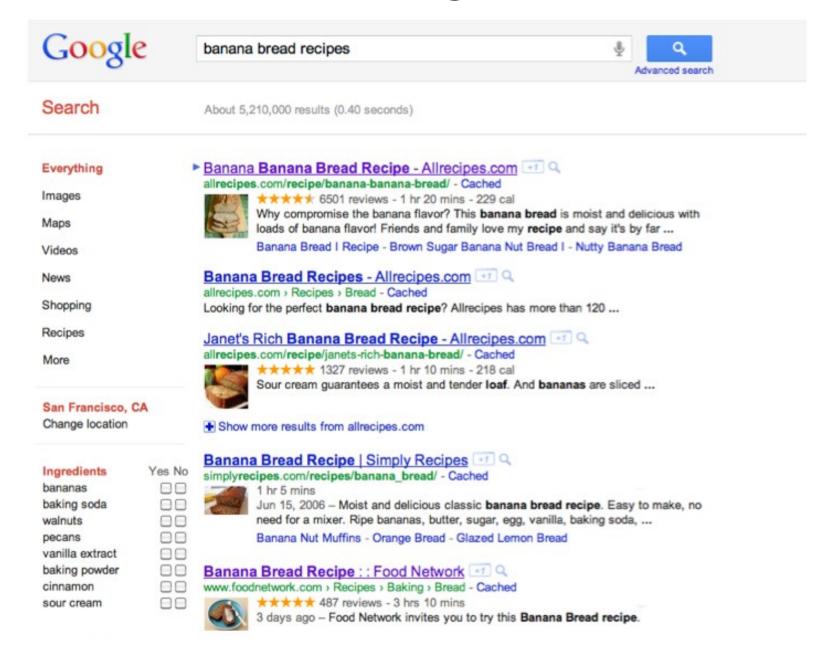




http://buytaert.net/tag/drupal-sites

Rich Snippets

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Yahoo!



cascal mountain view

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Anytime

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Past week

Past month

Cascal

WEB

cascalrestaurant.com

(650) 940-9500

400 Castro St, Mountain View, CA -

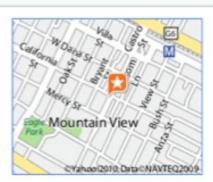
Menu | More Info »



65 Reviews - I am so sick of people suggesting Cascal who have never been there. Don't let the decor fool you - that was done by someone with taste... more







18,600 results

Cascal - Welcome to the Journey

www.cascalrestaurant.com

Tapas Special Lunch Contact

Music And

More results from cascalrestaurant.com »

Cascal - Mountain View, CA

** * * * (1237 Reviews) - (650) 940-9500 - Mountain View,

(650) 940-9500 · 400 Castro St · "The prosciutto wrapped dates and mushroom empanadas are amazing."

www.yelp.com/biz/cascal-mountain-view - Cached

More results from yelp.com »

Cascal Restaurant - Contact - Cascal - Welcome to the Journey

Cascal is centrally located at the corner of California and Castro streets in the heart of downtown Mountain View, California.

www.cascalrestaurant.com/about_contact.asp - Cached

Bing



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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

Why Structured Data in HTML

- Help machines extract relevant data from HTML
- Can make use of this data in amazing ways (e.g. enhanced search results)

Structured Data in HTML

- Add or alter HTML attributes
- Syntaxes
 - Microformats (@class)
 - RDFa (@property, @about, @typeof, ...)
 - Microdata (@itemscope, @itemtype, @itemprop, ...)

Schema.org



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

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

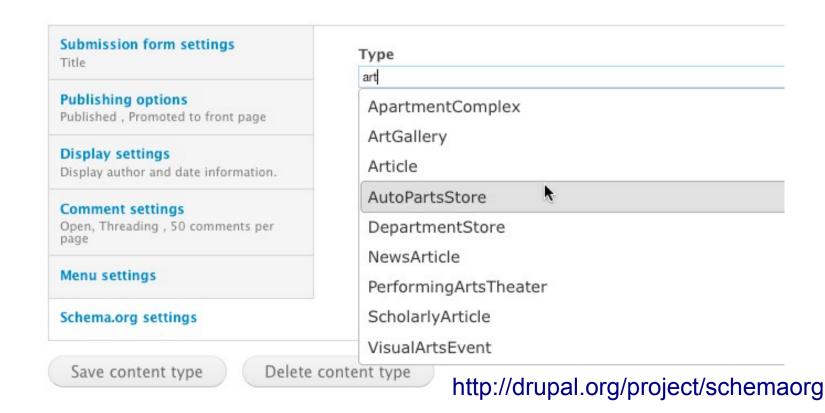
Thing > Event

An event happening at a certain time at a certain location.

Property	Expected Type	Description
Properties from 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 from Event		
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 module for Drupal

- UI instead of code
- Map your content types and fields to the schema.org terms



Example: Event





BADcamp 2011

The Bay Area Drupal camp is the largest FREE Drupal event in the world.

Come join us October 21st - 23rd at UC Berkeley, in California.

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Puild your cchodule

Schedule of events

OCTOBER 21

Free Drupal Training
Core Developer Summit
Higher Education Summit
Non-Profit Summit

OCTOBER 22

BADcamp Sessions & BoFs An Evening of Drupal

OCTOBED 22

Rich Snippet testing tool

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

Dries Buytaert | Schema.org Drupal 7 playground



schema.openspring.net/node/2 - 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.

BADCamp 2011 | Schema.org Drupal 7 playground

schema.openspring.net/node/3 - Cached Fri, Oct 21, 2011 - Berkeley, CA

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Apple pie | Schema.org Drupal 7 playground



schema.openspring.net/node/4 - Cached 1 hr 30 mins

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