# The future of search and SEO



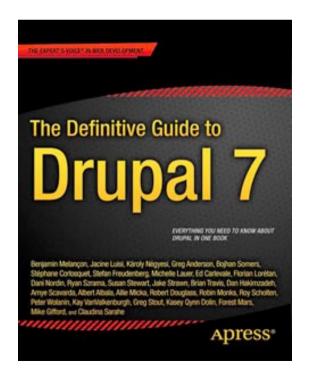
Stéphane Corlosquet & Nick Veenhof BADCamp, October 2013 Berkeley, CA



#### About the speakers

- Stéphane "scor" Corlosquet
  - 7 years with Drupal
  - Software engineer @ Acquia
  - Drupal 7 RDF core maintainer
  - Drupal Security Team member
  - Co-authored the
     Definitive Guide to Drupal 7
  - Contrib modules: RDF Extensions,
     SPARQL, schema.org, WebID
  - Member of the RDFa WG at W3C





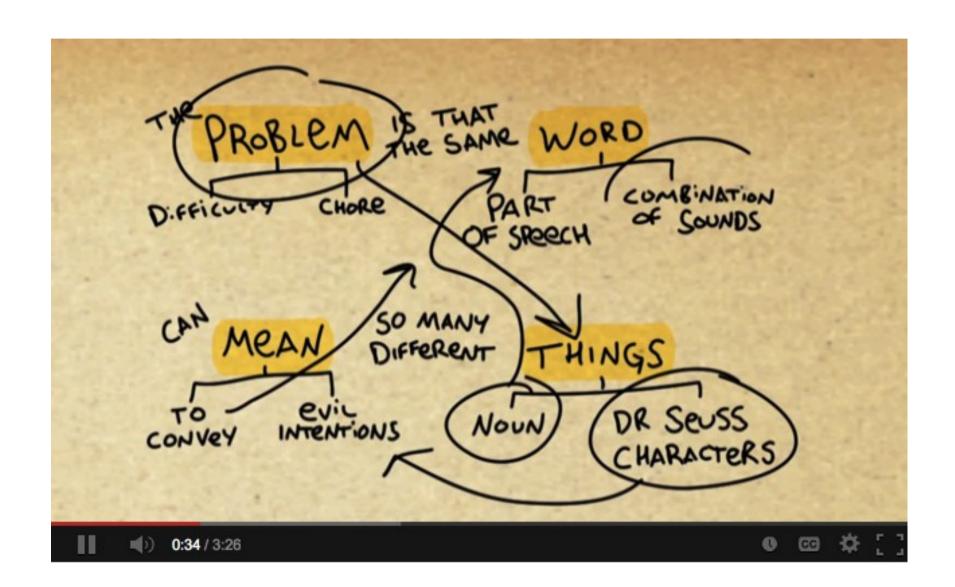
#### About the speakers

- Nick "Nick\_vh" Veenhof
  - 6 years with Drupal
  - Search engineer @ Acquia
  - Drupal 7 Apache Solr maintainer
  - Very much involved in the community across
     North America and Europe





#### The problem

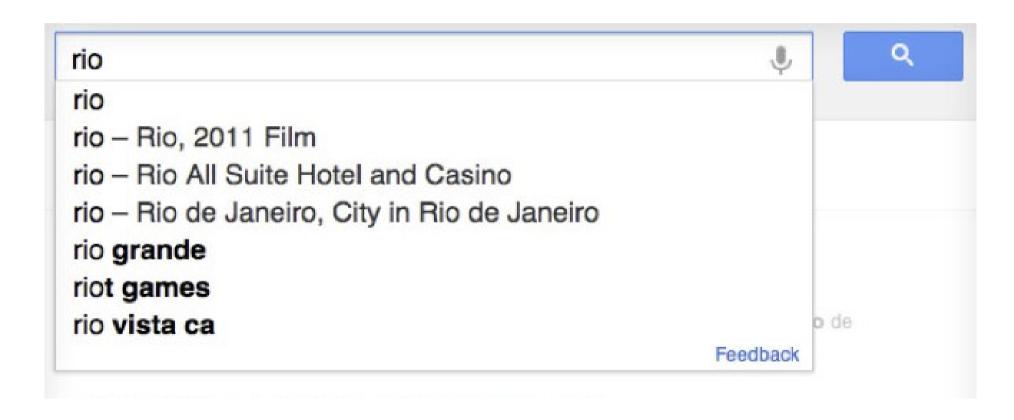


Speak now

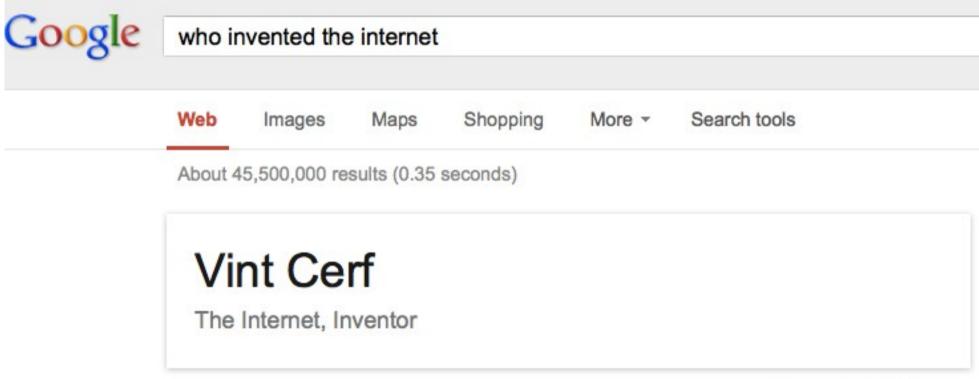


- Google's internal knowledge base
- Helps user find information quickly + easily
- Knows about people, places, cities, celebrities, movies, work or art...
- "Things, not strings" no keyword matching
- Hummingbird algorithm update (largest update since 2001)

Live Entity disambiguation

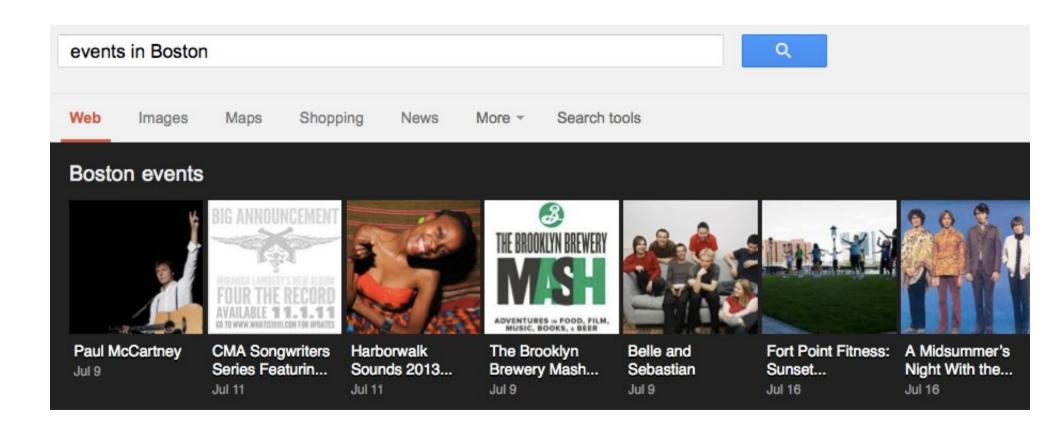


Direct answers

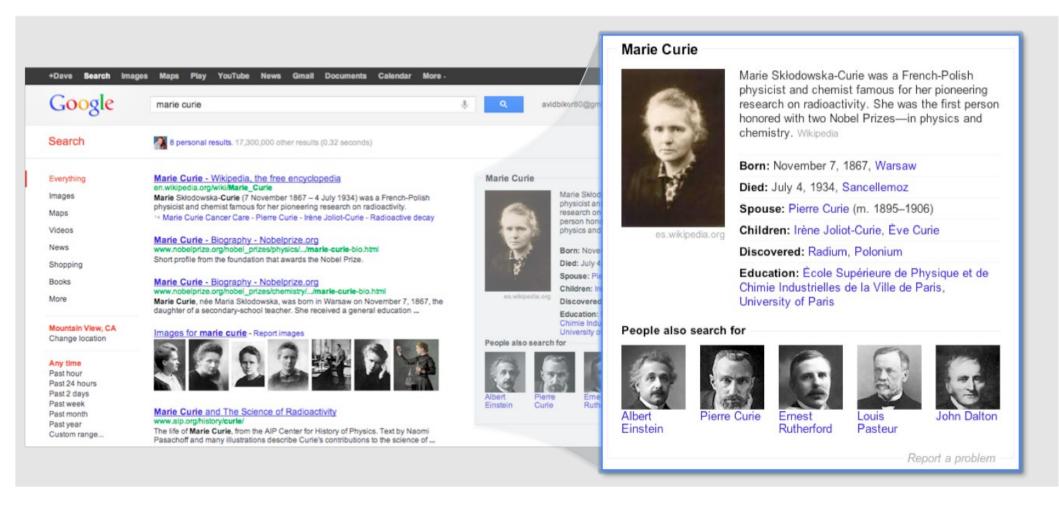


Feedback / More info

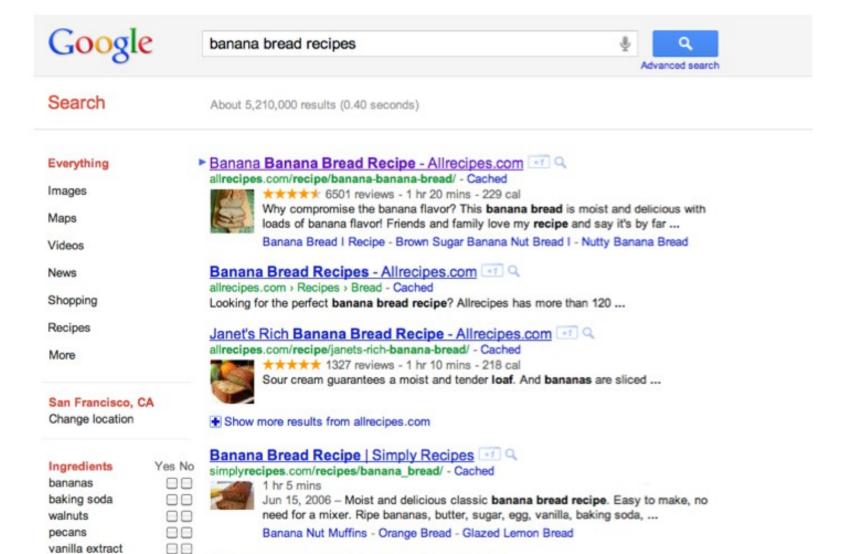
List and collections



Entity summary



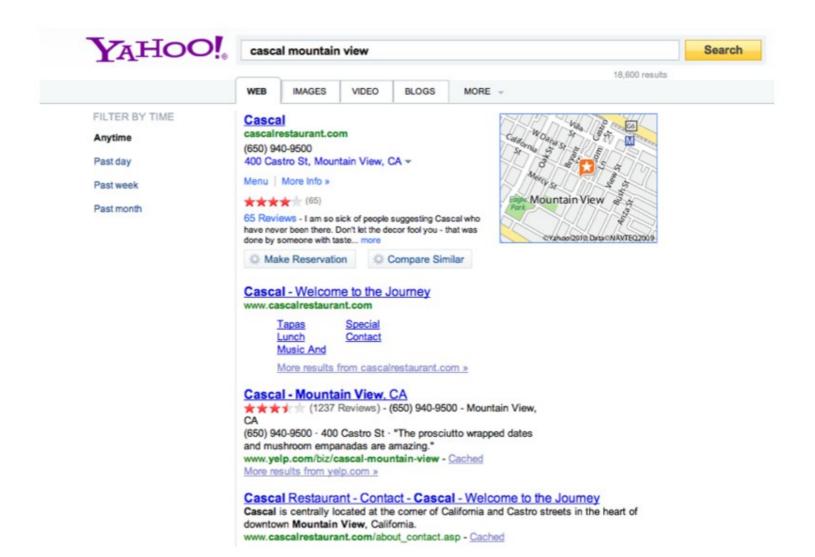
#### Rich Snippets



- 570 million real-world objects
- 18 billion facts and relationships
- Built from content gathered from the Web
- Freebase
  - Acquired by Google in 2010
  - 39 Million topics
  - 1,9 Billion facts and relationships
- Wikipedia
- More? → Video and video

## Other search engines similar efforts

Yahoo!



#### Other search engines similar efforts

#### Bing - Satori



#### What about Drupal?

- Drupal sites hold a lot of the data on the Web
  - > 1 Million sites
  - 2% of the web
  - Variety of content: news, gov, corporate, media, commerce
- Drupal's data is structured inside
  - Entities: Node, User, Comment, Taxonomy term
  - Properties: fields (text, entity reference...)

## Challenge

How can you make Drupal data easily understandable by search engines?

## Schema.org standard

- General web schema for everyone to use
- 400+ types (book, recipe, event, person...)
- Sponsored and supported by major search engines: Google, Yahoo!, Bing, Yandex
- Multiple formats: RDFa, Microdata, JSON-LD

Thing > Event

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

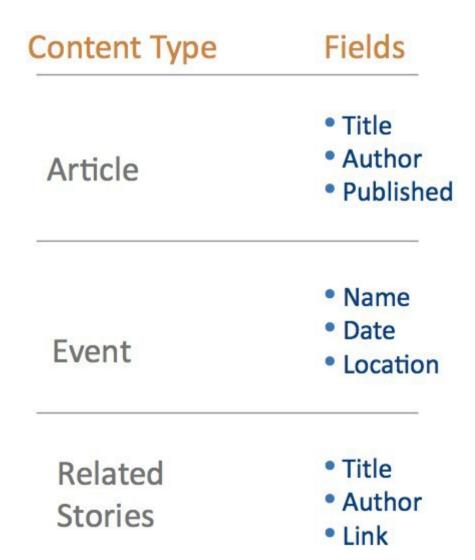
Property	Expected Type	Description
Properties from Thing		
description	Text	A short description of the item.
image	URL	URL of an image of the item.
name	Text	The name of the item.
url	URL	URL of the item.
Properties from Event		
attendees	Person or Organization	A person attending the event.
duration	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).

#### How does schema.org apply to Drupal?



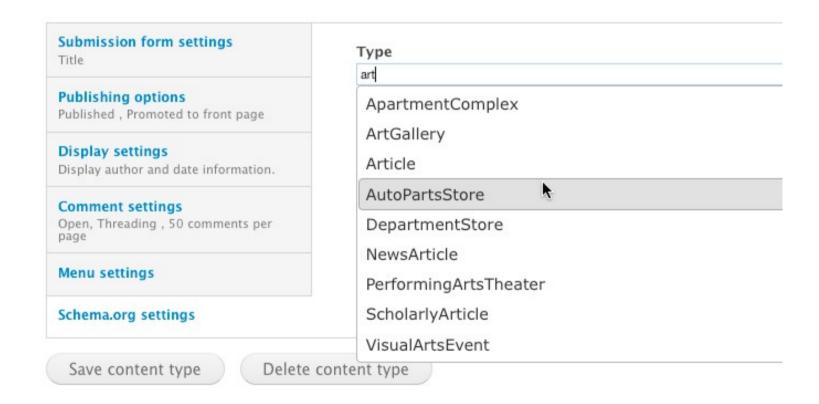


**Breaking News Story** 



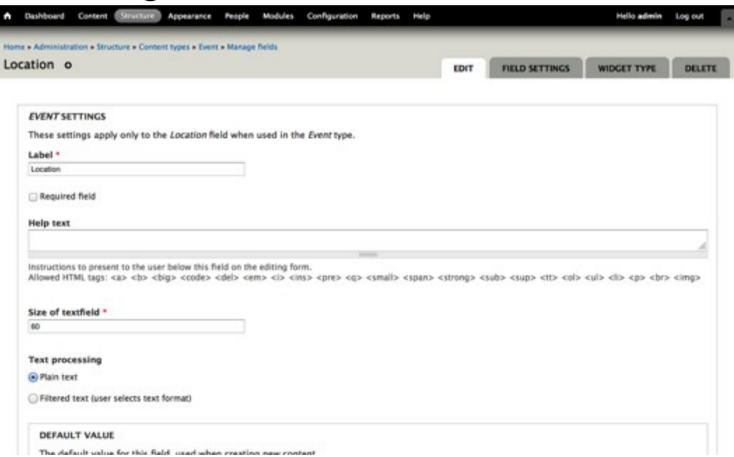
## Schema.org module for Drupal

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



## Schema.org module for Drupal

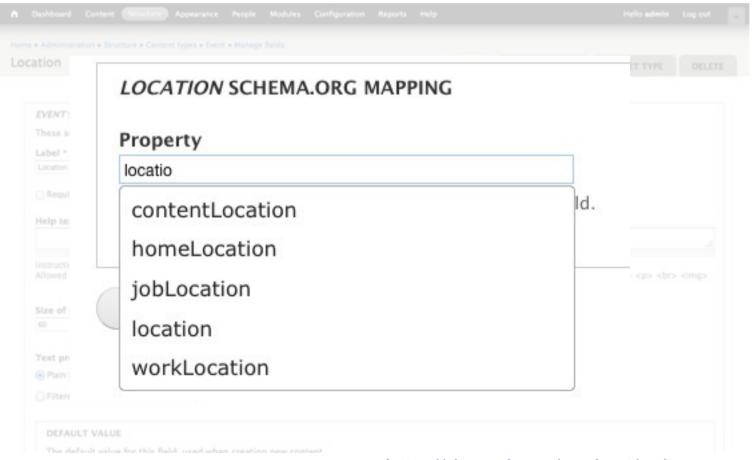
Map your content types and fields to the schema.org terms



http://drupal.org/project/schemaorg

## Schema.org module for Drupal

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



http://drupal.org/project/schemaorg

## Schema.org mappings in HTML

<div property="schema:location"> Wellington, New Zealand </div>

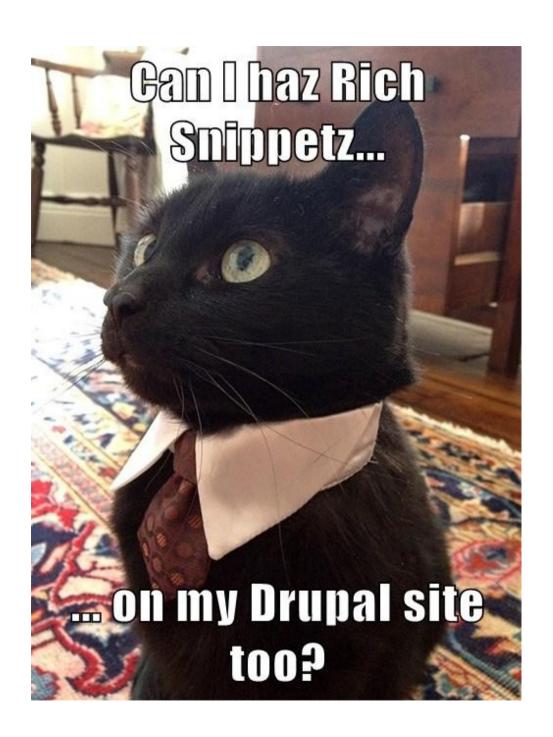
## Preview Rich Snippet

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

Structured Data Testing Tool URL HTML http://rdfsolr13test.devcloud.acquia-sites.com/node/6 PREVIEW Sign in to view the retrieved HTML. Google search results Google Custom Search Preview DrupalSouth New Zealand | rdfsolr13dev.devcloud.acquia-sites.com rdfsolr13test.devcloud.acquia-sites.com/node/6 Feb 14, 2014 - Wellington, New Zealand 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.

## Examples

- Recipe preview
- Event preview
- Person preview



#### rich\_snippets.module

#### **Belgian Fries**

rdfsolr13test.devcloud.acquia-sites.com/node/26

Yes!

Total cook time: 25 mins
Summary Yield Servings Source http://allreci

15 minutes Cooking time 10 minutes Total tin

Russet Potatoes (Peeled, rinsed and dried) 1 t Salt (Ad

#### RDF support in Rich Snippet

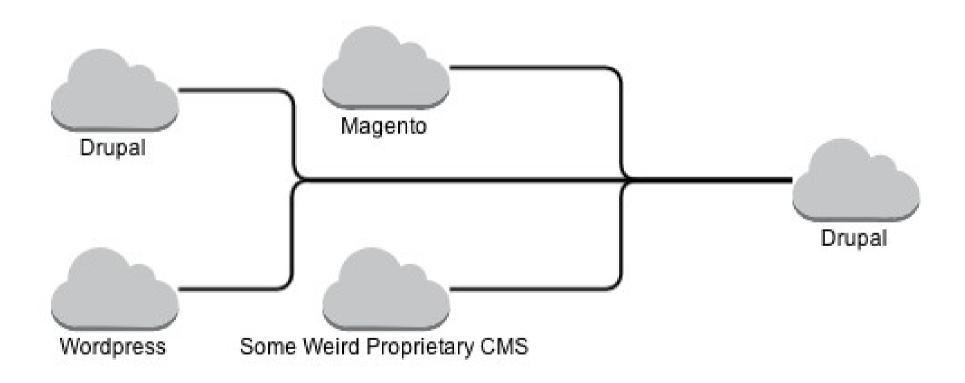
Rich Snippets

Rich Snippets Event

Rich Snippets Person

✓ Rich Snippets Recipe

#### Multisite search + Rich Snippets



#### Without Rich Snippet module

#### Belgian Fries

Summary Yield Servings Source http://allrecipes.com/recipe/apple-pie-by-grandma-ople/ Prep time 15 minutes Cooking time 10 minutes Total time 25 minutes Description Belgian Fries Ingredients 2 lb Russet Potatoes (Peeled, rinsed and dried) 1 t Salt (Add to ...

admin - 10/23/2013 - 13:2

- This site (rdfsolr13dev.devcloud.acquia-sites.com)

#### BADCamp 2013

These are really from two different

Saturday, October 26, 2013 Berkeley, CA The format of BASITES, but they are alcopy of each DrupalCampNY, DrupalCampLA, DrupalCampSeattleand other. Not very clear is it? hasis is on community knowledge, sharing and ...

admin - 10/22/2013 - 09:38

rdfsolr13dev.devcloud.acquia-sites.com

## With Rich Snippet module

#### **Belgian Fries**

rdfsolr13test.devcloud.acquia-sites.com/node/26



Total cook time: 25 mins

Summary Yield Servings Source http://allrecipes.com/recipe/apple-pie-by-grandma-ople/ Prep time 15 minutes Cooking time 10 minutes Total time 25 minutes Description Belgian Fries Ingredients 2 lb

Russet Potatoes (Peeled, rinsed and dried) 1 t Salt (Add to ...

#### Same results, rich\_snippets enabled

#### BADCamp 2013

rdfsolr13dev.devcloud.acquia-sites.com/node/1

Sat, Oct 26, 2013 - Berkeley, CA

Saturday, October 26, 2013 Berkeley, CA The format of BADCamp is an "un-conference" not unlike DrupalCampNY, DrupalCampLA, DrupalCampSeattleand BarCamp (the granddaddy of them all). The emphasis is on community knowledge, sharing and ...

## Benefits of Rich Snippets

- Same look and feel as Google search for private content
- Schema.org mappings used for Google search and internal Solr search
- Mix Drupal and non-Drupal data

#### Modules used

- Apache Solr Search
- Apache Solr Multisite Search
- Schema.org
- Rich Snippets

Blog post: Bridge Drupal and Non Drupal content with RDF and Solr

#### Thanks!

#### Stéphane Corlosquet:

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

#### Nick Veenhof:

- nick.veenhof@gmail.com
- @nick\_vh
- http://veenhof.be/