



Drupal

makes me hAPI

Apache Solr

Why does this



shines so bright?

Overview

- About me
- Searching.. A hot topic
- Apache Solr
 - What/Why?
 - Practical cases
 - How to drupalize it (Acquia / Do it yourself)
 - Extensions (Ubercart, Views..)
 - Demo
- Now or Future?

About me

- Drupal community
- Professional Drupal?
- Bachelor + (unfinished) Master in IT



nick_vh (twitter, drupal, ...)

www.nickveenhof.be

Searching, a hot topic!

- Drupal search

cron.php



Indexes word importance



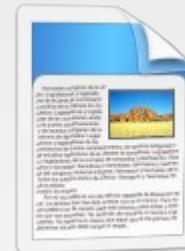
<http://acquia.com/blog/drupal-search-how-indexing-works>

<http://www.slideshare.net/heliorcolorado/apache-solr>

Searching, a hot topic!

- Search only scans index
- Word must be exact (player / players)
- Limited operators

Word Index



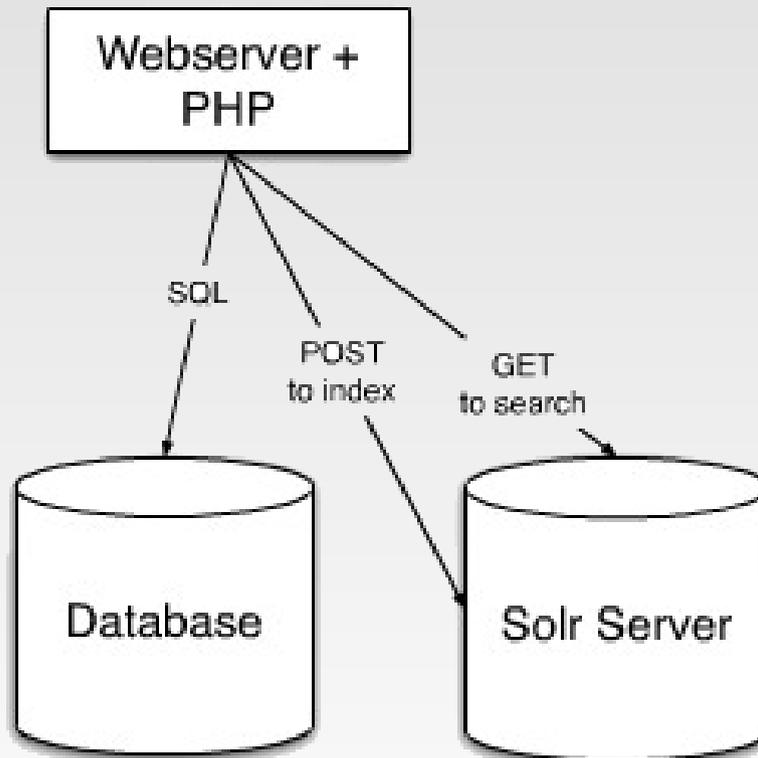
What is Apache Solr?

- **Real Explanation** .. Solr is an open source enterprise search server based on the Lucene Java search library, with XML/HTTP and JSON APIs, hit highlighting, faceted search, caching, replication, and a web administration interface. It runs in a Java servlet container such as Tomcat.
- **Java based application**
- **Incredible indexing features**
- **Blazingly fast**
- **Replication**



What is Apache Solr?

- Some air for your SQL database



What is Apache Solr?

- ApacheSolr is a Drupal Module
 - <http://drupal.org/project/apachesolr>
 - Integrates with a lot of other modules

Source: Robert Douglass/Acquia

What is Apache Solr?

- Faceted Search
- Spelling suggestions
- Priority in fields (not D7 yet..)
- Content Recommendation (More like this)
- In file search (documents, ..)

Source: Robert Douglass/Acquia

Faceted search

The screenshot shows a Mozilla Firefox browser window displaying the search results for 'barcelona' on drupal.org. The search results are filtered by type and author. The search bar contains the text 'barcelona' and the search button is labeled 'Search'. The search results are displayed in a list format, with the first result being '2007-09-19: Drupalcon Barcelona 2007'. The faceted search filters on the right side are:

- Sort by**
 - Relevancy
 - Title
 - Type
 - Author
 - Date
- Filter by type**
 - Forum topic (97)
 - Issue (79)
 - Book page (21)
 - Project (5)
- Filter by author**
 - Amazon (10)
 - robertgarrigos (9)
 - Manuel Garcia (6)
 - webchick (6)
 - Dries (5)
 - bertboerlan d@www.drop.org (5)
 - consen (5)
 - blaspas (4)

Three black arrows point to the 'Sort by', 'Filter by type', and 'Filter by author' sections respectively.

Spelling suggestions

The screenshot shows a Mozilla Firefox browser window with the address bar containing `http://drupal.org/search/apachesolr_search/drupalcamp barcelon`. The page displays the Drupal search interface. The search input field contains "drupalcamp barcelon" and a "Search" button. Below the input field, a "Did you mean:" section suggests "drupalcamp barcelona". A black arrow points to this suggestion. The page also includes a "User login" form with fields for "Username:" (containing "Nick_vh") and "Password:", and a "Log in" button. There are also links for "Create new account" and "Request new password". The page footer shows "Done" and "YSlow".

More like this



Why?

- Dissapointing default Drupal search... True?
- Much better results
- More people using search means longer visits
- Faceted search
- Seperating data and output
- Much better scalability (replication)

Practical Cases

- Drupal.org
- Digg.com
- Whitehouse.gov
- CNET.com
- Search.com
- Plaxo.com
- ...

Practical Cases

- Drupal.org
 - ~50% of page requests get content through Solr Search
 - Faceted searching allows more refined search
 - Relevant
 - Performance (a lot of drupalers in the world!)

How DIY?

- <http://krimson.be/articles/setup-drupal-6x-apache-solr-tomcat6-and-ubuntu>
- www.google.com
- www.drupal.org
- <http://drupal.org> -
Yes another time! The search really works...!

How Acquia?

- Hosted search service
- In combination with Stack installer and basic or trial subscription – Up and running in 5 minutes!
- <http://acquia.com/products-services/acquia-search>
- <http://acquia.com/downloads>

Extensions

- ApacheSolr Views integration
- Multisite search
- Local Solr (geospatial search)
- ApacheSolr Attachments
- ApacheSolr Ubercart
- Webmail Plus
- Exhibit
- Project (D6 version)
- Solr Service
- Apache Solr Stats
- Apache Solr autocomplete
- Apache Solr AJAX
- Apache Solr Biblio
- Simple Geo
- Node displays

Demo Drupalize it!

Let's
play!



Future + Views 3

- Integration with Views 3 + fields in Drupal 7
- Faceted search with Views 3! Works partially, *CCK not implemented yet.
- Custom Exposed filters
- GeoSpatial Search (Understanding coordinates)
- Even more separating the configuration from the output means better performance and scalability!
- Imagine the possibilities?

*CCK: Content construction kit / custom field definitions

Questions



Drupal

Home

Search

[Search](#)

[IRC nicks](#)

[Users](#)

[Issues](#)

Enter your keywords:

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