





Why?





Lucene

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Lucene

From Wikipedia, the free encyclopedia

Lucene is a free/open source information retrieval library, originally implemented in Java. It is supported by the Apache Software Foundation and is released under the Apache Software License. Lucene has been ported to programming languages including Delphi, Perl, C#, C++, Python, Ruby and PHP.

history

While suitable for any application which requires full text indexing and searching capability, Lucene has been widely recognized for its utility in the implementation of Internet search engines and local, single-site searching. Lucene itself is just an indexing and search library and does not contain crawling and HTML parsing functionality. The Apache project Nutch is based on Lucene and provides this functionality; the Apache project Solr is a fully-featured search server based on Lucene.

At the core of Lucene's logical architecture is the idea of a **document** containing **fields** of text. This flexibility allows Lucene's API to be independent of file format. Text from PDFs, HTML, Microsoft Word documents, as well as many others can all be indexed so long as their textual information can be extracted.

Lucene



Developed by Apache Software Foundation

Latest release 2.3.1 / February 23, 2008

Written in Java

OS Cross-platform

Genre Search and index

License Apache License 2.0

Website lucene.apache.org €

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Software using Lucene

OpenGrok A fast and usable source code search and cross reference engine

- Puggle A graphical desktop search engine that uses Lucene for full-text and metadata search [1] ☑
- isoHunt Uses Lucene for the site search [2]
- Gplex Database (homepage 🗗) Uses a C# version of Lucene to index your database metadata.
- EB-eye_EBI's_Search_Engine EMBL-EBI's Biomedical databases search engine (contains than 200 million documents)
- Joost Internet TV uses Lucene to search for programs.
- MediaWiki can use Lucene for full-text search.
- QuestAgent offline search engine uses Lucene in applet that provides full text search.
- Liferay open source portal, uses Lucene for full-text search.
- Beagle uses a port of Lucene to C# called Lucene. Net
 as its indexer.

[edit]

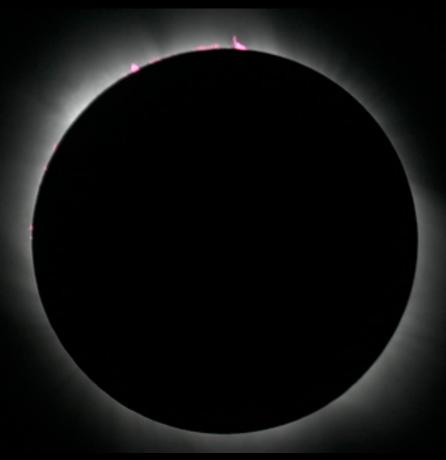
Lucene - key concepts

Tokens

Fields

Documents

Solr



acts as solr

script/plugin install svn://svn.railsfreaks.com/projects/acts_as_solr/trunk

add
act_as_solr to
model

rake solr:start

Adding it to a model

```
class Movie < ActiveRecord::Base</pre>
```

acts_as_solr

end

class Movie < ActiveRecord::Base</pre>

```
acts_as_solr :fields => [:title, :production_year]
```

end

```
Movie.find_by_solr('love').docs
Movie.find_by_solr('love').total_hits
```

Sample queries

1984

love

title: 1984

love AND hate

lov*

end

Multimodel search

```
Movie.multi_solr_search "Paris", :models => [Actor]
results.docs =>
  [#<Actor id: 41, name: "Paris Hilton">,
    #<Movie id: 1195, title: "Return to Paris">]
```

racets



Hello, Jørgen. We have recommendations for you. (Not Jørgen?)

Jørgen's Amazon.com

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Your Lists 🔽

Category

Any Category

Apparel (1,589,642)

Books (590,195)

MP3 Downloads (185,861)

Home & Garden (168,357)

Music (48,157)

Sports & Outdoors (18,616)

DVD (8,378)

Jewelry (7,482)

Health & Personal Care (6,541)

Everything Else (4,906)

VHS (3,088)

Kindle Store (2,144)

Automotive (2,086)

Baby (1,692)

Toys & Games (1,571)

Unbox Video

Downloads (1,238)

Gourmet Food (731)

Watches (672)

Office Products (647)

Beauty (385)

Electronics (241)

Home Improvement (240)

Software (144)

Grocery (144)

"love"

Related Searches: i love you, romance, valentine.

Showing Top Results

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Explore over 4,700 products tagged love by customers

See what the community is talking about in the love discussion forum.

Love by The Beatles (Audio CD - Nov 21, 2006)

Buy new: \$18.98 \$8.99 98 Used & new from \$7.15

Get it by Thursday, April 3 if you order in the next 14 hours and choose one-day shipping. Eligible for FREE Super Saver Shipping.

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Forever Changes by Love (Audio CD - Feb 20, 2001)

Buy new: \$11.98 \$10.99 73 Used & new from \$5.32

Get it by **Thursday, April 3** if you order in the next **12 hours** and choose one-day shipping. Eligible for FREE Super Saver Shipping.

***** (161)

Music: See all 48,157 items



Other People's Love Letters: 150 Letters You Were Never Meant to See by Bill Shapiro (Hardcover - Oct 30, 2007)

Buy new: \$22.50 \$15.30 27 Used & new from \$11.30

Highlighting

```
Movie.create(:title => 'Last Man Standing', :production_year => 1996)
results = Movie.find_by_solr('man', :highlight => {:fields => 'title'})
results.highlights
    => {1 => {:title => "Last <em>Man</em> Standing"}}
```

Other languages

Danish Dutch English Finnish French German Italian Norwegian Portuguese Russian Spanish Swedish

<filter class="solr.EnglishPorterFilterFactory"
protected="protwords.txt"/>

<filter class="solr.SnowballPorterFilterFactory"
language="Danish" />

Other options

Ferret / acts_as_ferret

Sphinx / Ultrasphinx

Resources

acts-as-solr.railsfreaks.com

www.quarkruby.com/2007/8/12/acts_as_solr-for-search-and-faceting

www.quarkruby.com/ 2007/9/14/advancedacts_as_solr

Questions?



Credits

iStockphoto.com

www.flickr.com/photos/astrowoosie/120750647