

Sela.



SOLR

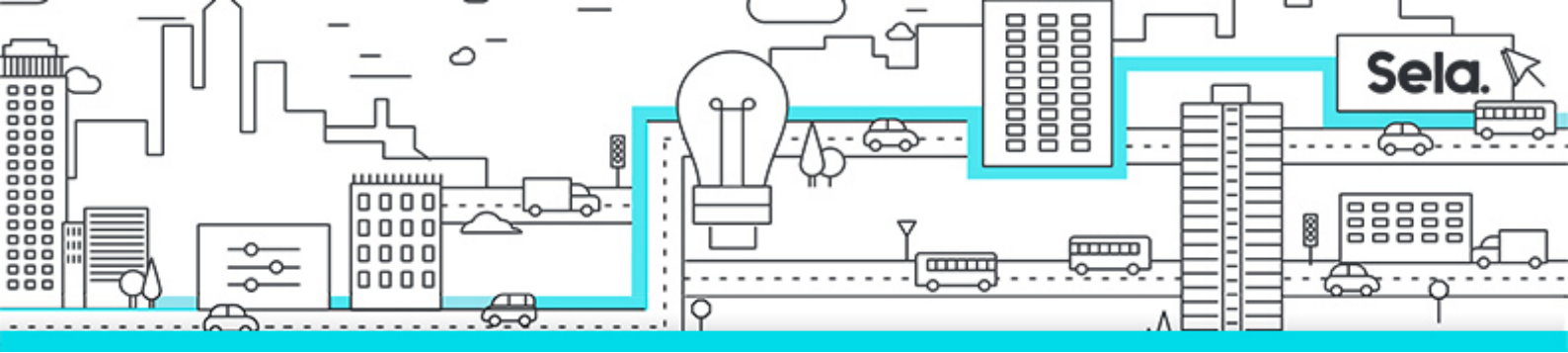
Using solr search engine



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Using solr search engine

SOLR - Version: 3.1

3 days course

Description:

This course introduces students to the Solr platform. Through a combination of lecture, discussion, and labs students will gain hands-on experience configuring effective search and indexing.

Intended Audience:

Developers, business users, administrators

Prerequisites:

- All attendees should be experienced technical staff with a background in web application operations and, preferably, development

Objectives:

- Solr installation and configuration
- Solr architecture and design
- Faceting, indexing, and search
- Advanced topics including spell checking, suggestions, Multicore, and SolrCloud.

Topics:

- **Fundamentals**
 - Solr Overview
 - Installing and running Solr
 - Adding content to Solr
 - Reading a Solr XML response



- Changing parameters in the URL
- Using the browse interface
- Labs: install Solr, run queries

• Searching

- Sorting results
- Query parsers
- More queries
- Hardwiring request parameters
- Adding fields to default search
- Faceting
- Result grouping
- Labs: advanced queries, experiment with faceted search

• Indexing

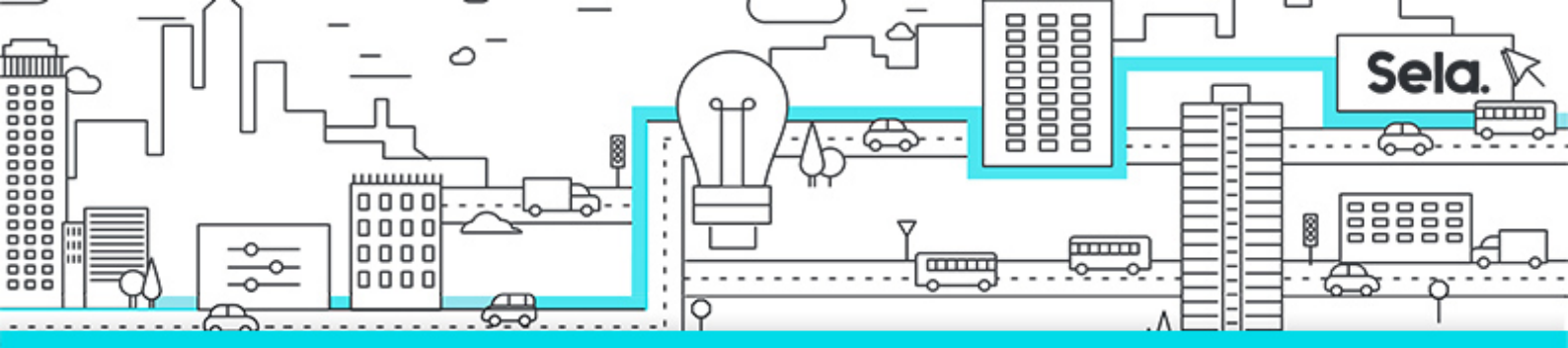
- Adding your own content to Solr
- Deleting data from Solr
- Building a bookstore search
- Adding book data
- Exploring the book data
- Dedupe update processor
- Labs: indexing various document collections

• Schema Updating

- Adding fields to the schema
- Analyzing text
- Labs: customize Solr schema

• Relevance

- Field weighting
- Phrase queries



- Function queries
- Fuzzier search
- Sounds-like
- Labs: implementing queries for relevance

• **Extended features**

- More-like-this
- Geospatial
- Spell checking
- Suggestions
- Highlighting
- Pseudo-fields
- Pseudo-joins
- Multilanguage
- Labs: implementing spell checking and suggestions

• **Multicore**

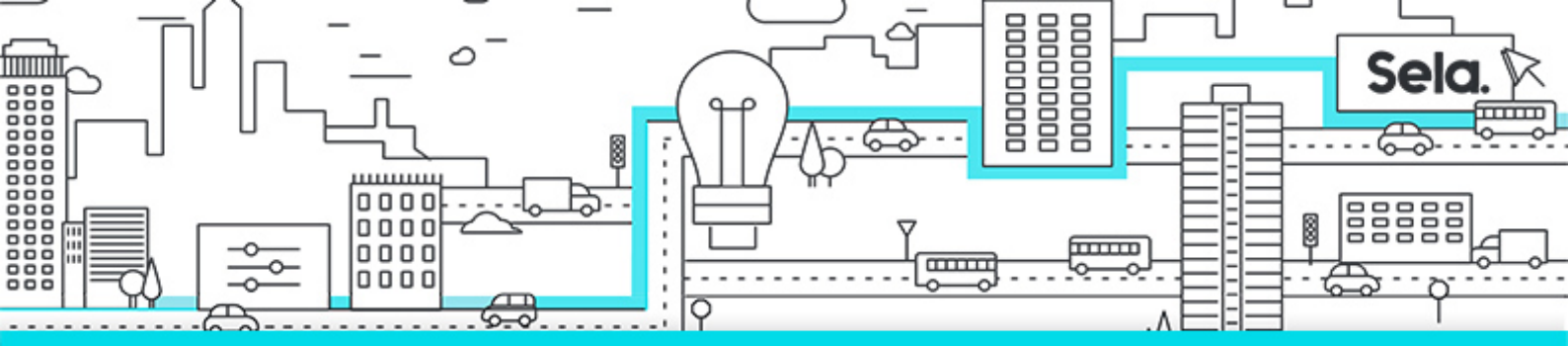
- Adding more kinds of data
- Labs: creating and administering cores

• **SolrCloud**

- Introduction
- How SolrCloud works
- Commit strategies
- ZooKeeper
- Managing Solr config files
- Labs: administer SolrCloud

• **Developing with Solr API**

- Talking to Solr through REST
- Configuration



- Indexing and searching
- Solr and Spring
- Labs: code to read and write Solr index, exercise in Spring with Solr

- **Developing with Lucene API**

- Building a Lucene index
- Searching, viewing, debugging
- Extracting text with Tika
- Scaling Lucene indices on clusters
- Lucene performance tuning
- Labs: coding with Lucene

- **Conclusion**

- Other approaches to search
- Future directions