# Lucene

## 0.1 Documentation

by Lenya community

# Table of contents

1 Overview	2
2 Crawling a website	
3 Creating an index from the command line	
4 Indexing XML documents	
5 Extract text from a PDF document	

#### 1. Overview

There are two URL for the search screen relative to your publication: search-live/lucene to search the live area, search-authoring/lucene to search the authoring area of your publication.

If you want to customize the layout of the search screen for your publication, place a stylesheet at lenya/xslt/search/search-and-results.xsl relative to your publication root.

Lucene indices are stored within the work/search/index/\$AREA/index directory of your publication. The work/search/htdocs\_dump/\$AREA directory holds content from crawling (see below).

The search pipelines are defined within global-sitemap.xmap and lucene.xmap

### 2. Crawling a website

Crawl a website by running

```
ant -f build/lenya/webapp/lenya/bin/crawl_and_index.xml
-Dcrawler.xconf=build/lenya/webapp/lenya/pubs/default/config/search/crawler-live.xconf crawl
```

Note that there is a search properties file in build/lenya/webapp/lenya/bin that you may have to change crawler xconf needs to have the following elements:

the robots element is optional.

In case you don't have access to the server and want to disallow certain URLs from being crawled, then you can also define a "robots.txt" on the crawler side, e.g.

```
# cocoon.apache.org
User-agent: *
Disallow: /there_seems_to_be_a_bug_within_websphinx_Robot_Exclusion.html
#Disallow:
User-agent: lenya
Disallow: /do/not/crawl/this/page.html
```

## 3. Creating an index from the command line

```
ant -f build/lenya/webapp/lenya/bin/crawl_and_index.xml
-Dlucene.xconf=build/lenya/webapp/lenya/pubs/default/config/search/lucene-live.xconf index
```

Note that there is a search properties file in build/lenya/webapp/lenya/bin that you may have to change. lucene-live.xconf has the following elements

#### 4. Indexing XML documents

In order to index XML documents one needs to configure the org.apache.lenya.lucene.index.ConfigurableIndexer (see above).

With namespaces:

Concatenating element values and setting default values in case element value doesn't exist:

#### 5. Extract text from a PDF document

```
ant -f build/lenya/webapp/lenya/bin/crawl_and_index.xml
-Dhtdocs.dump.dir=build/lenya/webapp/lenya/pubs/default/work/search/lucene/htdocs_dump xpdf
```

Also see the targets pdfbox and pdfadobe.