

SurroundQueryParser

<!-- Solr4.0

- [Overview](#)
- [Limitations](#)

Overview

The Surround query parser plugin provides support within Solr for the Surround query language.

From [surround QueryParser javadocs](#):

This parser generates queries that make use of position information (Span queries). It provides positional operators (w and n) that accept a numeric distance, as well as boolean operators (and, or, and not, wildcards (* and ?), quoting (with "), and boosting (via ^).

The operators (W, N, AND, OR, NOT) can be expressed lower-cased or upper-cased, and the non-unary operators (everything but NOT) support both infix (a AND b AND c) and prefix AND(a, b, c) notation.

The W and N operators express a positional relationship among their operands. W is ordered, and N is unordered. The distance is 1 by default, meaning the operands are adjacent, or may be provided as a prefix from 2-99. So, for example, 3W(a, b) means that terms a and b must appear within three positions of each other, or in other words, up to two terms may appear between a and b.

See also chapter 9 of [Lucene In Action \(2nd ed\)](#).

This was added to Solr through [SOLR-2703](#)

Limitations

Queries are not analyzed in any way, so to get good results, applications must be aware of how a text field is indexed. A lightweight analysis chain such as lowercasing using the `LowerCaseFilterFactory` followed by the `EnglishMinimalStemFilterFactory` to remove plurals is recommended.

By default, the behavior when too many queries are generated is to return an error and partial results. You can override this behavior by adding `maxBasicQueries` as a local parameter, e.g. `!surround maxBasicQueries=10000`

There is no room for default operator in surround query parser. For example, the query **dog cat** throws [ParseException](#).

Highlighting support for the surround query parser was fixed in [SOLR-3060](#) (see the [\[https://issues.apache.org/jira/browse/SOLR-3060\]](https://issues.apache.org/jira/browse/SOLR-3060))