



The score computes how similar the document is to the query, with higher scores reflecting stronger similarity and thus stronger matches.

Results are sorted by default.
The default sorting criteria is score.

Score

If you construct queries entirely programmatically, you must ensure the terms included in all of your queries match the tokens produced by the analyzer used during indexing.

Caveat

IndexReader

Search Workflow

Useful for retrieving documents by key (used together with Index.NOT_ANALYZED)

TermQuery

TermRangeQuery

NumericRangeQuery

PrefixQuery

Used to construct complex nested clauses.

BooleanQuery

BooleanClause.Occur

MUST -> AND

SHOULD -> OR

MUST_NOT -> NOT

WildcardQuery

FuzzyQuery

Convert text format query to Query object.

Support rich syntax

This is convenient because terms in the query object would be consistent with terms in the index.

Uses an analyzer

Query expression	Matches documents that...
java	Contain the term <i>java</i> in the default field
java junit	Contain the term <i>java</i> or <i>junit</i> , or both, in the default field ^a
java OR junit	
+java +junit	Contain both <i>java</i> and <i>junit</i> in the default field
java AND junit	
title:ant	Contain the term <i>ant</i> in the title field
title:extreme -subject:sports	Contain <i>extreme</i> in the title field and don't have <i>sports</i> in the subject field
title:extreme AND NOT subject:sports	
(agile OR extreme) AND methodology	Contain <i>methodology</i> and must also contain <i>agile</i> and/or <i>extreme</i> , all in the default field
title:"junit in action"	Contain the exact phrase "junit in action" in the title field
title:"junit action"~5	Contain the terms <i>junit</i> and <i>action</i> within five positions of one another, in the title field
java*	Contain terms that begin with <i>java</i> , like <i>javaspaces</i> , <i>javaserver</i> , <i>java.net</i> , and the exact tem <i>java</i> itself.
java~	Contain terms that are close to the word <i>java</i> , such as <i>lava</i>
lastmodified:[1/1/09 TO 12/31/09]	Have <i>lastmodified</i> field values between the dates January 1, 2009 and December 31, 2009

a. The default operator is OR. It can be set to AND (see section 3.5.6).