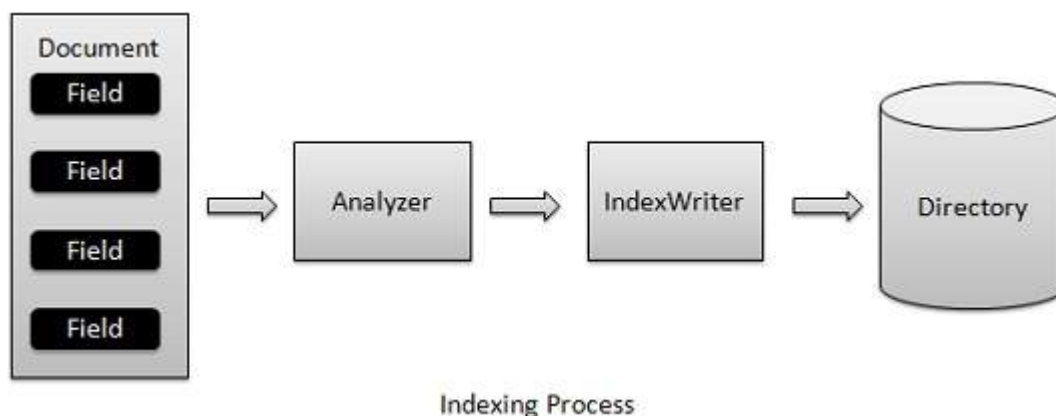


# LUCENE - INDEXING CLASSES

[http://www.tutorialspoint.com/lucene/lucene\\_indexing\\_classes.htm](http://www.tutorialspoint.com/lucene/lucene_indexing_classes.htm)

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Indexing process is one of the core functionality provided by Lucene. Following diagram illustrates the indexing process and use of classes. IndexWriter is the most important and core component of the indexing process.



We add *Documents* containing *Fields* to *IndexWriter* which analyzes the *Documents* using the *Analyzer* and then creates/open/edit indexes as required and store/update them in a *Directory*. *IndexWriter* is used to update or create indexes. It is not used to read indexes.

## Indexing Classes:

Following is the list of commonly used classes during indexing process.

Sr. No.	Class & Description
1	<a href="#">IndexWriter</a> This class acts as a core component which creates/updates indexes during indexing process.
2	<a href="#">Directory</a> This class represents the storage location of the indexes.
3	<a href="#">Analyzer</a> Analyzer class is responsible to analyze a document and get the tokens/words from the text which is to be indexed. Without analysis done, IndexWriter can not create index.
4	<a href="#">Document</a> Document represents a virtual document with Fields where Field is object which can contain the physical document's contents, its meta data and so on. Analyzer can understand a Document only.
5	<a href="#">Field</a> Field is the lowest unit or the starting point of the indexing process. It represents the key value pair relationship where a key is used to identify the value to be indexed. Say a field used to represent contents of a document will have key as "contents" and the value may contain the part or all of the text or numeric content of the document. Lucene can index only text or numeric contents only.

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