

## Introduction

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. This class represents the storage location of the indexes and generally it is a list of files. These files are called index files. Index files are normally created once and then used for read operation or can be deleted.

## Class declaration

Following is the declaration for **org.apache.lucene.document.Field** class:

```
public final class Field
    extends AbstractField
    implements Fieldable, Serializable
```

## Class constructors

### S.N. Constructor & Description

- 1  
**Field**  
*Stringname, booleaninternName, Stringvalue, Field. Storestore, Field. Indexindex, Field. TermVectortermVector*  
 Create a field by specifying its name, value and how it will be saved in the index.
- 2  
**FieldStringname, byte[]value**  
 Create a stored field with binary value.
- 3  
**FieldStringname, byte[]value, Field. Storestore**  
 Deprecated.
- 4  
**FieldStringname, byte[]value, intoffset, intlength**  
 Create a stored field with binary value.
- 5  
**FieldStringname, byte[]value, intoffset, intlength, Field. Storestore**  
 Deprecated.
- 6  
**FieldStringname, Readerreader**  
 Create a tokenized and indexed field that is not stored.
- 7  
**FieldStringname, Readerreader, Field. TermVectortermVector**

Create a tokenized and indexed field that is not stored, optionally with storing term vectors.

8

**Field***Stringname, Stringvalue, Field. Storestore, Field. Indexindex*

Create a field by specifying its name, value and how it will be saved in the index.

9

**Field***Stringname, Stringvalue, Field. Storestore, Field. Indexindex, Field. TermVectortermVector*

Create a field by specifying its name, value and how it will be saved in the index.

10

**Field***Stringname, TokenStreamtokenStream*

Create a tokenized and indexed field that is not stored.

11

**Field***Stringname, TokenStreamtokenStream, Field. TermVectortermVector*

Create a tokenized and indexed field that is not stored, optionally with storing term vectors.

## Class methods

S.N.	Method & Description
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1

**void clearLock***Stringname*

Attempt to clear *forcefullyunlockandremove* the specified lock.

2

**Reader readerValue**

The value of the field as a Reader, or null.

3

**void setTokenStream***TokenStreamtokenStream*

Expert: sets the token stream to be used for indexing and causes *isIndexed* and *isTokenized* to return true.

4

**void setValue***byte[]value*

Expert: change the value of this field.

5

**void setValue***byte[]value, intoffset, intlength*

Expert: change the value of this field.

6

**void setValueReader***value*

Expert: change the value of this field.

7

**void setValueStringvalue**

Expert: change the value of this field.

8

**String stringValue**

The value of the field as a String, or null.

9

**TokenStream tokenStreamValue**

The TokenStream for this field to be used when indexing, or null.

## Methods inherited

This class inherits methods from the following classes:

- org.apache.lucene.document.AbstractField
- java.lang.Object

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