

## Introduction

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.store.Directory** class:

```
public abstract class Directory
    extends Object
    implements Closeable
```

## Field

Following are the fields for **org.apache.lucene.store.Directory** class:

- **protected boolean isOpen**
- **protected LockFactory lockFactory** -- Holds the LockFactory instance  
*implements locking for this Directory instance.*

## Class constructors

S.N.	Constructor & Description
1	<b>Directory</b>

## Class methods

S.N.	Method & Description
1	<b>void clearLockStringname</b> Attempt to clear <i>forcefully unlock and remove</i> the specified lock.
2	<b>abstract void close</b> Closes the store.
3	<b>static void copyDirectorysrc, Directorydest, booleancloseDirSrc</b> Deprecated. Should be replaced with calls to <i>copyDirectory, String, String</i> for every file that needs copying. You can use the following code:

```
IndexFileNameFilter filter = IndexFileNameFilter.getFilter();
for (String file : src.listAll()) {
    if (filter.accept(null, file)) {
        src.copy(dest, file, file);
    }
}
```

```
}  
}
```

4

**void copyDirectoryto, Stringsrc, Stringdest**

Copies the file src to Directory to under the new file name dest.

5

**abstract IndexOutput createOutputStringname**

Creates a new, empty file in the directory with the given name.

6

**abstract void deleteFileStringname**

Removes an existing file in the directory.

7

**protected void ensureOpen =**

8

**abstract boolean fileExistsStringname**

Returns true iff a file with the given name exists.

9

**abstract long fileLengthStringname**

Returns the length of a file in the directory.

10

**abstract long fileModifiedStringname**

Deprecated.

11

**LockFactory getLockFactory**

Get the LockFactory that this Directory instance is using for its locking implementation.

12

**String getLockID**

Return a string identifier that uniquely differentiates this Directory instance from other Directory instances.

13

**abstract String[] listAll**

Returns an array of strings, one for each file in the directory.

14

**Lock makeLockStringname**

Construct a Lock.

15

**abstract IndexInput openInputStringname**

Returns a stream reading an existing file.

16

**IndexInput openInput***Stringname, intbufferSize*

Returns a stream reading an existing file, with the specified read buffer size.

17

**void setLockFactory***LockFactorylockFactory*

Set the LockFactory that this Directory instance should use for its locking implementation.

18

**void syncCollection** *< String > names*

Ensure that any writes to these files are moved to stable storage.

19

**void sync***Stringname*

Deprecated. use *syncCollection* instead. For easy migration you can change your code to call *syncCollections. singleton(name)*

20

**String toString**

21

**abstract void touchFile***Stringname*

Deprecated. Lucene never uses this API; it will be removed in 4.0.

## Methods inherited

This class inherits methods from the following classes:

• *java.lang.Object*

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