

```

public class Indexer {

    public static void main(String[] args) throws Exception {
        if (args.length != 2) {
            throw new IllegalArgumentException("Usage: java * +
➡Indexer.class.getName()
            + " <index dir> <data dir>");
        }
        String indexDir = args[0];
        String dataDir = args[1];

        long start = System.currentTimeMillis();
        Indexer indexer = new Indexer(indexDir);
        int numIndexed;
        try {
            numIndexed = indexer.index(dataDir, new TextFilesFilter());
        } finally {
            indexer.close();
        }
        long end = System.currentTimeMillis();

        System.out.println("Indexing " + numIndexed + " files took "
            + (end - start) + " milliseconds");
    }

    private IndexWriter writer;

    public Indexer(String indexDir) throws IOException {
        Directory dir = FSDirectory.open(new File(indexDir));
        writer = new IndexWriter(dir,
            new StandardAnalyzer(
                Version.LUCENE_30),
            true,
            IndexWriter.MaxFieldLength.UNLIMITED);
    }

    public void close() throws IOException {
        writer.close();
    }

    public int index(String dataDir, FileFilter filter)
        throws Exception {

        File[] files = new File(dataDir).listFiles();

        for (File f: files) {
            if (!f.isDirectory() &&
                !f.isHidden() &&
                f.exists() &&
                f.canRead() &&
                (filter == null || filter.accept(f))) {
                indexFile(f);
            }
        }

        return writer.numDocs();
    }

    private static class TextFilesFilter implements FileFilter {
        public boolean accept(File path) {
            return path.getName().toLowerCase()
                .endsWith(".txt");
        }
    }
}

```

1 Create index in this directory

2 Index *.txt files from this directory

3 Create Lucene IndexWriter

4 Close IndexWriter

5 Return number of documents indexed

6 Index .txt files only, using FileFilter

```
}  
  
protected Document getDocument(File f) throws Exception {  
    Document doc = new Document();  
    doc.add(new Field("contents", new FileReader(f)));  
    doc.add(new Field("filename", f.getName(),  
        Field.Store.YES, Field.Index.NOT_ANALYZED));  
    doc.add(new Field("fullpath", f.getCanonicalPath(),  
        Field.Store.YES, Field.Index.NOT_ANALYZED));  
    return doc;  
}  
  
private void indexFile(File f) throws Exception {  
    System.out.println("Indexing " + f.getCanonicalPath());  
    Document doc = getDocument(f);  
    writer.addDocument(doc);  
}  
}
```

7 Index file content

8 Index filename

9 Index file full path

10 Add document to Lucene index