

## Class IndexBuilder

java.lang.Object  
IndexBuilder

```
public class IndexBuilder  
extends java.lang.Object
```

### Field Summary

#### Fields

Modifier and Type	Field	Description
(package private) DeltaEncoder	<b>deltaEncoder</b>	
(package private) static java.lang.String	<b>destination</b>	
(package private) static java.util.Map<java.lang.Integer, java.lang.Integer>	<b>docIdToDocLength</b>	
(package private) static java.util.Map<java.lang.Integer, java.lang.String>	<b>docIdToPlayId</b>	
(package private) static java.util.Map<java.lang.Integer, java.lang.String>	<b>docIdToSceneId</b>	
(package private) static java.util.Map<java.lang.String, PostingList>	<b>invertedIndex</b>	
(package private) org.json.simple.parser.JSONParser	<b>jsonParser</b>	
(package private) static java.util.Map<java.lang.String, TermLookupEntry>	<b>lookupTableCompressed</b>	
(package private) static java.util.Map<java.lang.String, TermLookupEntry>	<b>lookupTableUncompressed</b>	
(package private) static java.util.Map<java.lang.String, java.lang.Integer>	<b>playToPlayLength</b>	
(package private) static java.util.Map<java.lang.String, java.lang.Integer>	<b>sceneToSceneLength</b>	

Modifier and Type	Field	Description
(package private) VByteEncoder	<b>vbyteEncoder</b>	
(package private) WriteToDisk	<b>wtd</b>	

## Constructor Summary

### Constructors

Constructor	Description
<b>IndexBuilder()</b>	

## Method Summary

**All Methods**   **Static Methods**   **Instance Methods**   **Concrete Methods**

Modifier and Type	Method	Description
void	<b>buildIndex</b> (java.lang.String compression)	
void	<b>getPlayStatistics()</b>	
java.util.Map<java.lang.String, java.lang.Integer[]>	<b>getProcessedInvertedIndex</b> (java.util.Map<java.lang.String, PostingList> invertedIndex)	
void	<b>getSceneStatistics()</b>	
static void	<b>main</b> (java.lang.String[] args)	
void	<b>printInvertedIndex</b> (java.util.Map<java.lang.String, PostingList> invertedIndex, java.lang.String filename)	
void	<b>writeMapsToDisk</b> (boolean compressionRequired)	

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Details

**jsonParser**

```
org.json.simple.parser.JSONParser jsonParser
```

### **docIdToSceneId**

```
static java.util.Map<java.lang.Integer,java.lang.String> docIdToSceneId
```

### **docIdToPlayId**

```
static java.util.Map<java.lang.Integer,java.lang.String> docIdToPlayId
```

### **docIdToDocLength**

```
static java.util.Map<java.lang.Integer,java.lang.Integer> docIdToDocLength
```

### **invertedIndex**

```
static java.util.Map<java.lang.String,PostingList> invertedIndex
```

### **lookupTableUncompressed**

```
static java.util.Map<java.lang.String,TermLookupEntry> lookupTableUncompressed
```

### **lookupTableCompressed**

```
static java.util.Map<java.lang.String,TermLookupEntry> lookupTableCompressed
```

### **sceneToSceneLength**

```
static java.util.Map<java.lang.String,java.lang.Integer> sceneToSceneLength
```

### **playToPlayLength**

```
static java.util.Map<java.lang.String,java.lang.Integer> playToPlayLength
```

### **destination**

```
static java.lang.String destination
```

**deltaEncoder**

```
DeltaEncoder deltaEncoder
```

**vbyteEncoder**

```
VByteEncoder vbyteEncoder
```

**wtd**

```
WriteToDisk wtd
```

**Constructor Details****IndexBuilder**

```
public IndexBuilder()
```

**Method Details****main**

```
public static void main(java.lang.String[] args)
    throws java.io.IOException
```

**Throws:**

```
java.io.IOException
```

**buildIndex**

```
public void buildIndex(java.lang.String compression)
    throws java.io.IOException
```

**Throws:**

```
java.io.IOException
```

**getProcessedInvertedIndex**

```
public java.util.Map<java.lang.String,  
java.lang.Integer[]> getProcessedInvertedIndex(  
java.util.Map<java.lang.String,PostingList> invertedIndex)
```

### **writeMapsToDisk**

```
public void writeMapsToDisk(boolean compressionRequired)
```

### **printInvertedIndex**

```
public void printInvertedIndex(  
java.util.Map<java.lang.String,PostingList> invertedIndex,  
java.lang.String filename)
```

### **getSceneStatistics**

```
public void getSceneStatistics()
```

### **getPlayStatistics**

```
public void getPlayStatistics()
```