

nov. 25, 18 15:25	WordCount.java	Page 1/2
<pre> import java.io.IOException; import java.util.StringTokenizer;  import org.apache.hadoop.conf.Configuration; import org.apache.hadoop.fs.Path; import org.apache.hadoop.io.IntWritable; import org.apache.hadoop.io.Text; import org.apache.hadoop.mapreduce.Job; import org.apache.hadoop.mapreduce.Mapper; import org.apache.hadoop.mapreduce.Reducer; import org.apache.hadoop.mapreduce.lib.input.FileInputFormat; import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat; import java.util.HashSet; import java.util.Set; import java.util.Map;  /*  *      YOUSSEF NIDABRAHIM  *      ZZ3 - F2  *  *      MAP/REDUCE PATTERN FOR COUNTING WORDS  */  public class WordCount {      public static class TokenizerMapper extends Mapper&lt;Object, Text, Text, IntWritable&gt;{          private final static IntWritable one = new IntWritable(1);         private Text word = new Text();         private Set&lt;String&gt; patternsToSkip = new HashSet&lt;String&gt;();          public void map(Object key, Text value, Context context) throws IOException, InterruptedException {              StringTokenizer itr = new StringTokenizer(value.toString());              while (itr.hasMoreTokens()) {                 word.set(itr.nextToken());                 String txt = word.toString();                 txt = txt.toLowerCase();                 txt = txt.replaceAll("\p{Punct}", "");                 //txt = txt.replaceAll("[^a-zA-Z\\p{L}]", " ");                 word.set(txt);                 context.write(word, one);             }         }     }      public static class IntSumReducer extends Reducer&lt;Text, IntWritable, Text, IntWritable&gt; {          private IntWritable result = new IntWritable();          public void reduce(Text key, Iterable&lt;IntWritable&gt; values, Context context ) throws IOException, InterruptedException {             int sum = 0;             for (IntWritable val : values) {                 sum += val.get();             }         }     } </pre>		

nov. 25, 18 15:25	WordCount.java	Page 2/2
<pre>         }         result.set(sum);         context.write(key, result);     }      public static void main(String[] args) throws Exception {         Configuration conf = new Configuration();         Job job = Job.getInstance(conf, "word count");          job.setJarByClass(WordCount.class);         job.setMapperClass(TokenizerMapper.class);         job.setReducerClass(IntSumReducer.class);         job.setOutputKeyClass(Text.class);         job.setOutputValueClass(IntWritable.class);         FileInputFormat.addInputPath(job, new Path(args[0]));         FileOutputFormat.setOutputPath(job, new Path(args[1]));          System.exit(job.waitForCompletion(true) ? 0 : 1);     } } </pre>		