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<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 CALCULATING MAXIMUM AND AVERAGE WORDS PER SENTENC E  */  public class StylePhrase {      public static class StylePhraseMapper extends Mapper&lt;Object, Text, Text, Custom MaxAverageTuple&gt;{          private CustomMaxAverageTuple tuple = new CustomMaxAverageTuple();         private Text sentence = new Text("Sentence");          public void map(Object key, Text value, Context context) throws IOException, InterruptedException {              StringTokenizer itr = new StringTokenizer(value.toString());             long wordCounter = 0;             while (itr.hasMoreTokens()) {                 wordCounter++;             }             tuple.setAverage(wordCounter);             tuple.setMax(wordCounter);             tuple.setCount(wordCounter);              context.write(sentence, tuple);         }     }      public static class StylePhraseReducer extends Reducer&lt;Text,CustomMaxAverageTup le,Text,CustomMaxAverageTuple&gt; {          private CustomMaxAverageTuple result = new CustomMaxAverageTuple();          public void reduce(Text key, Iterable&lt;CustomMaxAverageTuple&gt; values, Context context ) throws IOException, InterruptedException {              int max = 0;             int moy = 0;             int wordCounter = 0;             int sentenceCounter = 0; </pre>		

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<pre>         for (CustomMaxAverageTuple tuple : values) {             sentenceCounter++;             wordCounter = wordCounter + tuple.getCount();             result.setCount(wordCounter);             if(tuple.getMax() &gt; result.getMax())                 result.setMax(tuple.getMax());         }         result.setAverage(result.getCount()/sentenceCounter);          context.write(key, result);     } }  public static void main(String[] args) throws Exception {      Configuration conf = new Configuration();     conf.set("textinputformat.record.delimiter", ".");     Job job = Job.getInstance(conf, "Style sentences");      job.setJarByClass(StylePhrase.class);     job.setMapperClass(StylePhraseMapper.class);     job.setReducerClass(StylePhraseReducer.class);     job.setOutputKeyClass(Text.class);     job.setOutputValueClass(CustomMaxAverageTuple.class);      FileInputFormat.addInputPath(job, new Path(args[0]));     FileOutputFormat.setOutputPath(job, new Path(args[1]));      System.exit(job.waitForCompletion(true) ? 0 : 1); } } </pre>		