MapReduce (Hadoop) with Povray

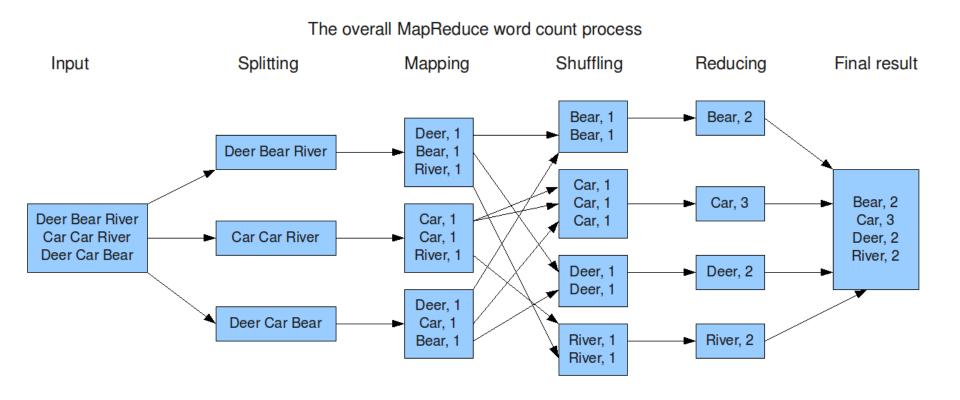
Jan Schlenker & Sebastian Sams

Agenda

- MapReduce & Hadoop
- Amazon Elastic MapReduce
- Idea & Implementation
- Live Demo

MapReduce & Hadoop





MapReduce & Hadoop



```
public static class TokenizerMapper extends
  Mapper<Object, Text, Text, IntWritable>{
private final static IntWritable one = new IntWritable(1);
private Text word = new Text();
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());
   context.write(word, one);
```

MapReduce & Hadoop



```
public static class IntSumReducer extends
  Reducer<Text,IntWritable,Text,IntWritable> {
private IntWritable result = new IntWritable();
public void reduce(Text key, Iterable<IntWritable> values, Context
  context) throws IOException, InterruptedException {
 int sum = 0:
 for (IntWritable val : values) {
   sum += val.get();
 result.set(sum);
 context.write(key, result);
```

Amazon Elastic MapReduce



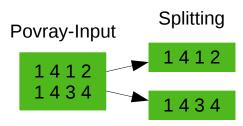




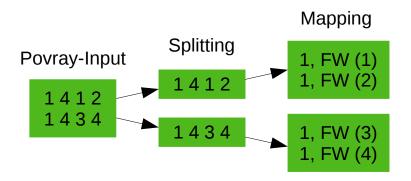
Povray-Input

1 4 1 2 1 4 3 4



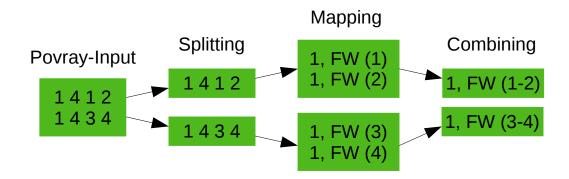






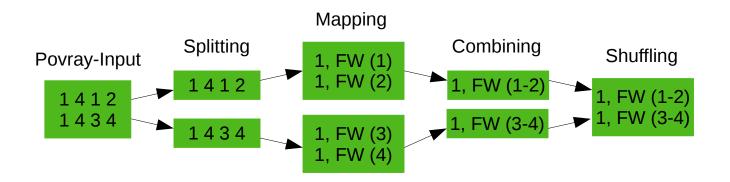
FW = FrameWritable





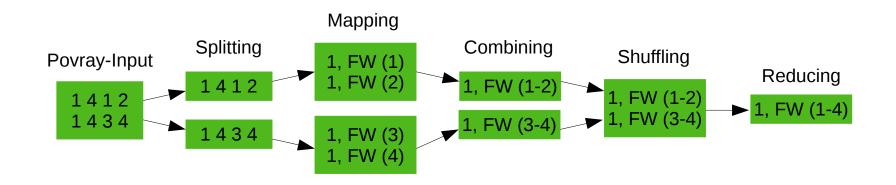
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Live Demo