

环境：

idea 2018+
scala 2.11+
maven-3.6.0
JDK1.8
spark2.0+

1、下载安装JDK1.8 配置环境变量

2、下载安装idea

<https://www.jetbrains.com/idea/>

3、idea安装scala插件

4、下载安装maven 配置环境变量，配置源 -- 阿里云或者其他私服

<https://maven.apache.org/docs/history.html> 我们不要下载最新的，我建议3.6.0

<https://maven.apache.org/docs/3.6.0/release-notes.html>

5、idea集成maven

6、idea创建一个scala的maven项目

<https://docs.scala-lang.org/tutorials/scala-with-maven.html>

https://davidb.github.io/scala-maven-plugin/example_java.html

```
1  <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-inst
2      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.
3      <modelVersion>4.0.0</modelVersion>
4      <groupId>org.qzhd.algo</groupId>
5      <artifactId>training</artifactId>
6      <version>1.0-SNAPSHOT</version>
7
8
9      <properties>
10         <java.version>1.8</java.version>
11         <spark.version>2.4.1</spark.version>
12         <scope>provided</scope>
13     </properties>
14
15     <dependencies>
16         <dependency>
17             <groupId>org.apache.spark</groupId>
18             <artifactId>spark-core_2.11</artifactId>
19             <version>${spark.version}</version>
20             <scope>${scope}</scope>
21         </dependency>
22
23         <dependency>
24             <groupId>org.apache.spark</groupId>
25             <artifactId>spark-sql_2.11</artifactId>
26             <version>${spark.version}</version>
27             <scope>${scope}</scope>
28         </dependency>
```

```

29     </dependencies>
30     <build>
31         <plugins>
32             <plugin>
33                 <groupId>net.alchim31.maven</groupId>
34                 <artifactId>scala-maven-plugin</artifactId>
35                 <version>3.2.2</version>
36                 <executions>
37                     <execution>
38                         <id>scala-compile-first</id>
39                         <phase>process-resources</phase>
40                         <goals>
41                             <goal>add-source</goal>
42                             <goal>compile</goal>
43                         </goals>
44                     </execution>
45                     <execution>
46                         <id>scala-test-compile</id>
47                         <phase>process-test-resources</phase>
48                         <goals>
49                             <goal>testCompile</goal>
50                         </goals>
51                     </execution>
52                 </executions>
53             </plugin>
54             <plugin>
55                 <groupId>org.apache.maven.plugins</groupId>
56                 <artifactId>maven-compiler-plugin</artifactId>
57                 <version>3.5.1</version>
58                 <executions>
59                     <execution>
60                         <phase>compile</phase>
61                         <goals>
62                             <goal>compile</goal>
63                         </goals>
64                     </execution>
65                 </executions>
66                 <configuration>
67                     <source>1.8</source>
68                     <target>1.8</target>
69                 </configuration>
70             </plugin>
71         </plugins>
72     </build>
73 </project>

```

7、最简单的 wordcount

```

1 def main(args: Array[String]): Unit = {
2
3     val spark = SparkSession.builder()
4         .appName("wordcount")
5         .master("local")
6         .getOrCreate()

```

```
7
8  val rdd = spark.sparkContext.textFile("/Users/zhaosl/workspace/training/data/iris.data")
9
10 //4.7,3.2,1.3,0.2,Iris-setosa
11 val result = rdd.flatMap(_.split(",")).map(x=>(x,1)).reduceByKey(_+_ )
12
13 result.collect().foreach(println)
14 }
```