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02. Setting up Scala IDE & using Maven plugins for Java developers

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This extends [Setting up Java, Maven & Eclipse](#) and [Setting up Scala & practicing the concepts via REPL the Scala way for Java developers](#).

Step 1: Scala IDE is an eclipse plugin. Following is the Scala IDE update site URL for Eclipse 4.4 (Luna) and Eclipse 4.5 (Mars).

```
1  
2 http://download.scala-ide.org/sdk/lithium/e44/scala
```

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3

Open eclipse., and then go to Help ->> Install New Software -> Add ->

Name: Scala IDE

Location: <http://download.scala-ide.org/sdk/lithium/e44/scala211/stable/site>

Select **"Scala IDE for Eclipse"**, and install it and restart eclipse.

Step 3: This tutorial assumes that you have already installed Java, Scala, and maven as per the links at the top of this tutorial. So, let's create a simple Scala maven project called **"simple-scala"**. **"-B"** is used for Maven non-interactive mode.

```
1  
2 C:\Users\java-_000\projects>mvn archetype:generate  
3
```

Step 4: Import the project **"simple-scala"** into eclipse.

File -> Import -> "Existing Maven Projects" -> select **"C:\Users\java-_000\projects\simple-scala"**. It actually looks at the pom.xml in that folder.

Step 5: Right mouse click on **"simple-scala"**, and then select **"Configure -> Add Scala Nature"**, now you will see an **"M"** for Maven, and **"S"** for Scala. If you are interested, you can check the hidden file **".project"**.

Open **"MySpecTest.scala"** and press **"ctrl+shift+o"** to organize imports and fix the compile error.

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Simple Scala project in eclipse

Step 6: The **pom.xml** file need some changes, and should look like

```

1
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
3   <modelVersion>4.0.0</modelVersion>
4   <groupId>com.mytutorial</groupId>
5   <artifactId>simple-scala</artifactId>
6   <version>1.0-SNAPSHOT</version>
7   <name>${project.artifactId}</name>
8   <description>My wonderfull scala app</description>
9   <inceptionYear>2015</inceptionYear>
10  <licenses>
11    <license>
12      <name>My License</name>
13      <url>http://....</url>
14      <distribution>repo</distribution>
15    </license>
16  </licenses>
17
18  <properties>
19    <maven.compiler.source>1.6</maven.compiler.source>
20    <maven.compiler.target>1.6</maven.compiler.target>
21    <encoding>UTF-8</encoding>
22    <scala.version>2.11.5</scala.version>
23    <scala.compat.version>2.11</scala.compat.version>
24  </properties>
25
26  <dependencies>
27    <dependency>
28      <groupId>org.scala-lang</groupId>
29      <artifactId>scala-library</artifactId>
30      <version>${scala.version}</version>
31    </dependency>

```



```

32
33     <!-- Test -->
34     <dependency>
35         <groupId>junit</groupId>
36         <artifactId>junit</artifactId>
37         <version>4.11</version>
38         <scope>test</scope>
39     </dependency>
40     <dependency>
41         <groupId>org.specs2</groupId>
42         <artifactId>specs2-core_${scala.compat.ver
43         <version>2.4.16</version>
44         <scope>test</scope>
45     </dependency>
46     <dependency>
47         <groupId>org.specs2</groupId>
48         <artifactId>specs2-junit_${scala.compat.
49         <version>2.4.16</version>
50         <scope>test</scope>
51     </dependency>
52     <dependency>
53         <groupId>org.scalatest</groupId>
54         <artifactId>scalatest_${scala.compat.versio
55         <version>2.2.4</version>
56         <scope>test</scope>
57     </dependency>
58 </dependencies>
59
60 <build>
61     <sourceDirectory>src/main/scala</sourceDirec
62     <testSourceDirectory>src/test/scala</testSou
63     <plugins>
64         <plugin>
65             <!-- see http://davidb.github.com/scala-
66             <groupId>net.alchim31.maven</groupId>
67             <artifactId>scala-maven-plugin</artifact
68             <version>3.2.0</version>
69             <executions>
70                 <execution>
71                     <goals>
72                         <goal>compile</goal>
73                         <goal>testCompile</goal>
74                     </goals>
75                     <configuration>
76                         <args>
77                             <!-- <arg>-make:transitive</arg>
78                             <arg>-dependencyfile</arg>
79                             <arg>${project.build.directory}/
80                         </args>
81                     </configuration>
82                 </execution>
83             </executions>
84         </plugin>
85         <plugin>
86             <groupId>org.apache.maven.plugins</group

```



```

87     <artifactId>maven-surefire-plugin</artifactId>
88     <version>2.18.1</version>
89     <configuration>
90         <useFile>>false</useFile>
91         <disableXmlReport>>true</disableXmlReport>
92         <!-- If you have classpath issue like I -->
93         <!-- useManifestOnlyJar>>false</useManifestOnlyJar>
94         <includes>
95             <include>**/*Test.*</include>
96             <include>**/*Suite.*</include>
97         </includes>
98     </configuration>
99 </plugin>
100 </plugins>
101 </build>
102 </project>
103
104

```

The changes are:

1. The commenting of “<arg>-make:transitive</arg>” inside the plugin “scala-maven-plugin”.

```

1
2 <!--      <arg>-make:transitive</arg> -->
3

```

2. Add the following dependency:

```

1
2     <dependency>
3         <groupId>org.specs2</groupId>
4         <artifactId>specs2-junit_${scala.compat.version}</artifactId>
5         <version>2.4.16</version>
6         <scope>test</scope>
7     </dependency>
8

```

Step 7: Install the “**m2e-scala**” plugin from the following update site. The steps are very similar to “installing the Scala IDE” shown in Step 1.



```
1  
2 http://alchim31.free.fr/m2e-scala/update-site/  
3
```

Step 8: Now, right click on the package **"com.mytutorial"** within the project **"simple-scala"**, and then select

New -> Other -> Scala Wizards -> "Scala Object" and name the Object **"com.mytutorial.Hello"**.

```
1  
2 package com.mytutorial  
3  
4 object Hello extends App {  
5     println("Hello from Scala")  
6 }  
7
```

You can run as

Select **"Hello.scala"** and right mouse button click and then **"Run As" -> "Scala Application"**.

Output:

```
1  
2 Hello from Scala
```

Packaging it using Maven

Go to a DOS command prompt:

```
1  
2 C:\Users\java-_000\projects\simple-scala>mvn clean  
3
```



This is one of many ways to getting started with Scala. There is a build tool for scala known as “**sbt**”.

◀ 01. Setting up Scala & practicing the concepts via REPL the Scala way for Java developers

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Top

