

# Creating an IntelliJ Project that can use AspectJ

**Note:** These instructions will **ONLY** work with IntelliJ Ultimate Edition

## Add the AspectJ Dependencies into Maven Project

1. Open up a new IntelliJ Maven Project
2. Click Enable Auto-Import
3. Add the following dependencies into your pom.xml file

```
<dependency>
  <groupId>org.aspectj</groupId>
  <artifactId>aspectjrt</artifactId>
  <version>1.8.9</version>
</dependency>

<dependency>
  <groupId>org.aspectj</groupId>
  <artifactId>aspectjweaver</artifactId>
  <version>1.8.9</version>
</dependency>
```

4. Add the following plugins into your pom.xml file. These plugins will allow maven to use the ajc compiler

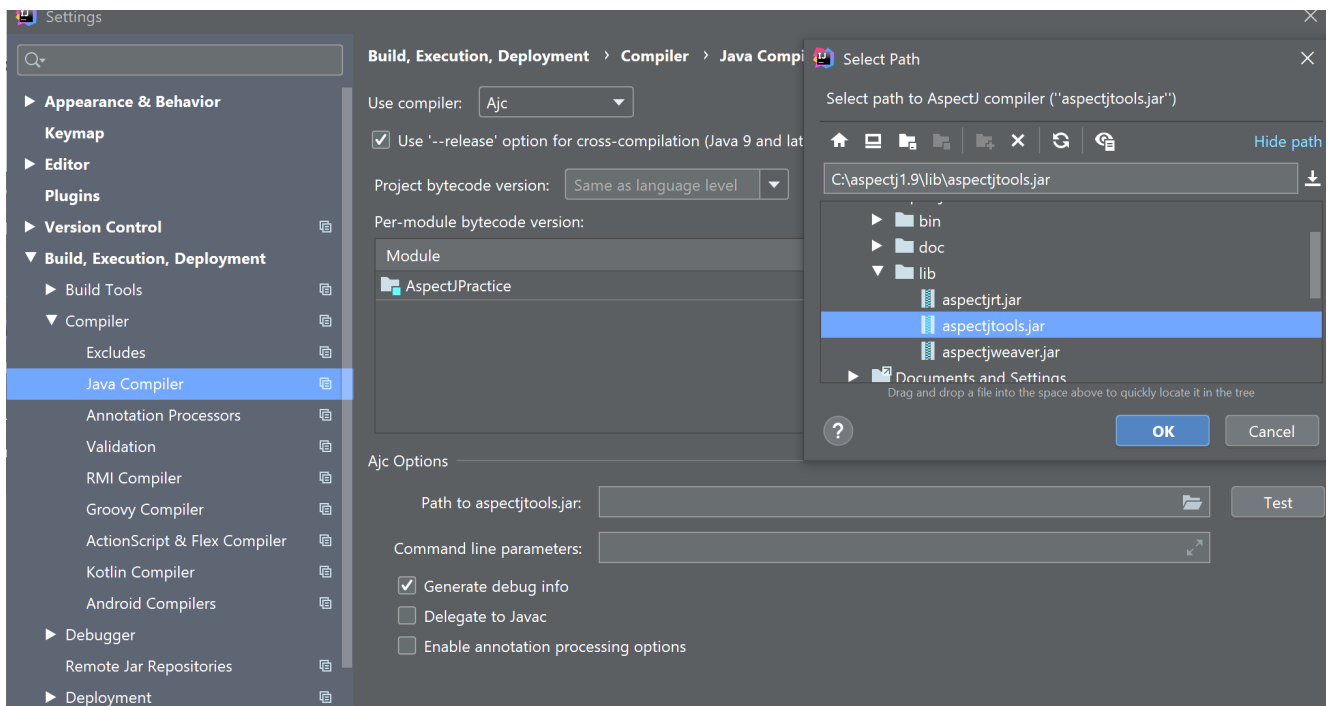
```
<build>
  <plugins>
    <plugin>
      <groupId>org.codehaus.mojo</groupId>
      <artifactId>aspectj-maven-plugin</artifactId>
      <version>1.11</version>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
    </plugin>
  </plugins>
</build>
```

**Note:** If IntelliJ can't find the aspectj-maven-plugin, copy and paste the maven dependency from the [Mojo's AspectJ Maven Plugin](#) repository. Replace the <dependency> tags with <plugin> tags

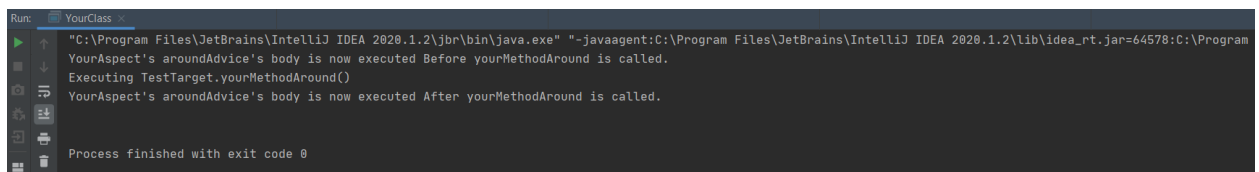
## Add the AspectJ ajc compiler to IntelliJ

1. In the Settings/Preferences menu dialogue, select **Build, Execution, Deployment | Compiler | Java Compiler**
2. From the **Use Compiler** list, select **Ajc**
3. Specify the path to the compiler in the **Path to aspectjtools.jar** field.
  - a. **You want** the path to the **aspectjtools.jar** which is located in <AspectJ installation directory>\lib
4. Set the Target Byte Code version to the version of your aspectjtools.jar. This can be retrieved by clicking the "test" button next to the aspectjtools.jar path field.
5. If you need more help, refer to the IntelliJ guide: [AspectJ](#)

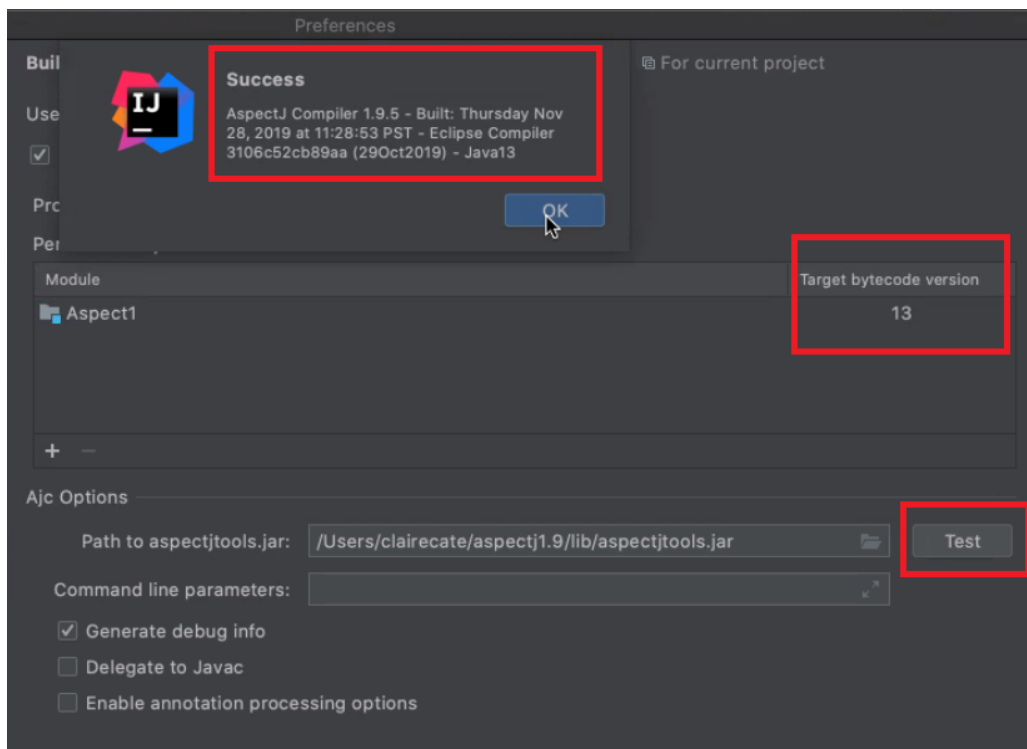
Setting the ajc compiler in IntelliJ should look like the screenshot below



1. You can test your set up by downloading these files: [VerifyAspectJ.zip](#)
  - a. Extract and put the files into your project's java folder
  - b. Run the main method in the YourClass.java file
  - c. When run, your output should like the screenshot below



2. If you are having Compiling issues click the test button and make sure that the java version of the aspectjtools jar matches the target bytecode version



```
YourAspect's aroundAdvice's body is now executed Before yourMethodAround is called.  
Executing TestTarget.yourMethodAround()  
YourAspect's aroundAdvice's body is now executed After yourMethodAround is called.
```

**Note:** if you did not get an output like the screenshot above, go to your Settings -> Build, Execution, Deployment -> Compiler -> Java Compiler. Double-check if Ajc is selected as the compiler instead of javac and that your Module target bytecode version is 1.8 or above.