

Frequently Asked Technical Questions

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How do I prevent "[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!"

This or a similar warning is emitted by a plugin that processes plain text files but has not been configured to use a specific file encoding. So eliminating the warning is simply a matter of finding out which plugin emits it and how to configure the file encoding for it. This is as easy as adding the following property to your POM (or one of its parent POMs):

```

1. <project>
2.   ...
3.   <properties>
4.     <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
5.   </properties>
6.   ...
7. </project>

```

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How do I prevent including JARs in WEB-INF/lib? I need a "compile only" scope!

The scope you should use for this is provided. This indicates to Maven that the dependency will be provided at run time by its container or the JDK, for example.

Dependencies with this scope will not be passed on transitively, nor will they be bundled in an package such as a WAR, or included in the runtime classpath.

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How do I list available plugins?

The "Available Plugins" page [lists them and provides additional information](#). See <http://maven.apache.org/plugins>

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How do I determine what version of a plugin I am using?

You can use the [Maven Help Plugin](#)'s `describe` goal. For example, to find out the version of the install plugin:

```
1. mvn -Dplugin=install help:describe
```

Note that you must give the plugin prefix as the argument to plugin, not its artifact ID.

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How can I use Ant tasks in a Maven build?

There are currently 2 alternatives:

- For use in a plugin written in Java, Beanshell or other Java-like scripting language, you can construct the Ant tasks using the [instructions given in the Ant documentation](#)
- If you have very small amounts of Ant script specific to your project, you can use the [AntRun plugin](#).

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How can I use Maven features in an Ant build?

The [Maven Ant Tasks](#) allow many of the features of Maven, such as [dependency management](#) and [repository deployment](#), to be used in an Ant build.

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How do I set up Maven so it will compile with a target and source JVM of my choice?

You must configure the `source` and `target` parameters in your pom. [For example, to set the source and target JVM to 1.5](#), you should have in your pom:

```

1.  ...
2.  <build>
3.  ...
4.    <plugins>
5.      <plugin>
6.        <groupId>org.apache.maven.plugins</groupId>
7.        <artifactId>maven-compiler-plugin</artifactId>
8.        <version>3.3</version>
9.        <configuration>
10.         <source>1.5</source>
11.         <target>1.5</target>

```

```

12.     </configuration>
13.   </plugin>
14. </plugins>
15. ...
16. </build>
17. ...

```

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Is it possible to create my own directory structure?

Absolutely yes!

By configuring `<sourceDirectory>`, `<resources>` and other elements of the `<build>` section.

In addition, you may need to change the plugin configuration if you are not using plugin defaults for their files/directories.

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Where is the source code? I couldn't seem to find a link anywhere on the Maven site.

The [source code](#) can be found in [our subversion repository](#).

For more information, see [Building Maven](#).

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Maven can't seem to download the dependencies. Is my installation correct?

You most probably need to configure Maven to use a proxy. Please see the information on [Configuring a proxy](#) for information on how to configure your proxy for Maven.

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I have a jar that I want to put into my local repository. How can I copy it in?

If you [understand the layout of the Maven repository](#), you can [copy the jar directly into where it is meant to go](#). Maven will find this file next time it is run.

If you are not confident about the layout of the Maven repository, then you can [adapt the following command to load in your jar file](#), all on one line.

```

1. mvn install:install-file
2.   -Dfile=<path-to-file>
3.   -DgroupId=<group-id>
4.   -DartifactId=<artifact-id>
5.   -Dversion=<version>
6.   -Dpackaging=<packaging>
7.   -DgeneratePom=true
8.
9. Where: <path-to-file>  the path to the file to load
10.      <group-id>       the group that the file should be registered under
11.      <artifact-id>    the artifact name for the file
12.      <version>        the version of the file

```

13. `<packaging>` the packaging of the file e.g. jar
- 14.

This should load in the file into the Maven repository, renaming it as needed.

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How do I unsubscribe from Maven mailing lists?

To unsubscribe from a Maven mailing list you simply send a message to

1. `[mailing-list]-unsubscribe@maven.apache.org`

So, if you have subscribed to `users@maven.apache.org` then you would send a message to `users-unsubscribe@maven.apache.org` in order to get off the list. People tend to have problems when they subscribe with one address and attempt to unsubscribe with another. So make sure that you are using the same address when unsubscribing that you used to subscribe before asking for help.

If you find you still cannot get off a list then send a message to `[mailing-list]-help@maven.apache.org`. These instructions are also appended to every message sent out on a maven mailing list ...

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How do I skip the tests?

Add the parameter `-Dmaven.test.skip=true` or `-DskipTests=true` in the command line, depending on whether you want to skip test compilation and execution or only execution. See the example [Skipping Tests](#) in the Surefire Plugin's documentation for more details.

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How can I run a single unit test?

Use the parameter `-Dtest=MyTest` at the command line. NB: do not specify the entire package (org.apache.x.y.MyTest)

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Handle special characters in site

Configure your ide to use the correct encoding. With eclipse, add `-Dfile.encoding=ISO-8859-1` in eclipse.ini file

Configure the output encoding in your pom

1. ...
2. `<plugin>`
3. `<groupId>org.apache.maven.plugins</groupId>`
4. `<artifactId>maven-site-plugin</artifactId>`
5. `<version>3.2</version>`
6. `<configuration>`
7. `<outputEncoding>UTF-8</outputEncoding>`
8. `</configuration>`

```

9.     </plugin>
10.    ...

```

Configure the file encoding use by mvn. add to MAVEN_OPTS the encoding (same as the ide). This can be made with adding `MAVEN_OPTS="-Dfile.encoding=ISO-8859-1"` in \$HOME/.profile

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How do I include `tools.jar` in my dependencies?

The following code includes `tools.jar` for JDKs on Windows, Linux and Solaris (it is already included in the runtime for Mac OS X and some free JDKs).

```

1. ...
2.   <profiles>
3.     <profile>
4.       <id>default-tools.jar</id>
5.       <activation>
6.         <property>
7.           <name>java.vendor</name>
8.           <value>Sun Microsystems Inc.</value>
9.         </property>
10.      </activation>
11.      <dependencies>
12.        <dependency>
13.          <groupId>com.sun</groupId>
14.          <artifactId>tools</artifactId>
15.          <version>1.4.2</version>
16.          <scope>system</scope>
17.          <systemPath>${java.home}/../lib/tools.jar</systemPath>
18.        </dependency>
19.      </dependencies>
20.    </profile>
21.  </profiles>
22.  ...

```

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Maven compiles my test classes but doesn't run them?

Tests are run by the `surefire plugin`. The `surefire plugin` can be configured to run certain test classes and you may have unintentionally done so by specifying a value to `${test}`. Check your `settings.xml` and `pom.xml` for a property named "test" which would like this:

```

1. ...
2.   <properties>
3.     <property>
4.       <name>test</name>
5.       <value>some-value</value>
6.     </property>
7.   </properties>

```

```
8. ...
```

or

```
1. ...
2. <properties>
3.   <test>some-value</test>
4. </properties>
5. ...
```

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Where are [Maven SNAPSHOT artifacts](#)?

If you are trying to build a development version of Maven or plugins, you may need to access the maven snapshot repositories.

You need to update your settings.xml file using the [Guide to Plugin Snapshot Repositories](#)

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Where are the [Maven XSD schemas](#)?

The Maven XSD is located [here](#) and the Maven Settings XSD is located [here](#).

Your favorite IDE probably supports XSD schema's for pom.xml and settings.xml editing. You need to specify the following:

```
1. <project xmlns="http://maven.apache.org/POM/4.0.0"
2.   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3.   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
4.                       http://maven.apache.org/xsd/maven-4.0.0.xsd">
5.
6.   ...
7. </project>
```

```
1. <settings xmlns="http://maven.apache.org/SETTINGS/1.0.0"
2.   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3.   xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.0.0
4.                       http://maven.apache.org/xsd/settings-1.0.0.xsd">
5.   ...
6. </settings>
```

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[Maven doesn't work, how do I get help?](#)

We have compiled a list of available resources on the [getting help page](#)

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How to [produce execution debug output or error messages](#)?

You could call Maven with -X parameter or -e parameter. For more information, run:

```
1. mvn --help
```

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What is a Mojo?

A **mojo** is a **Maven plain Old Java Object**. Each mojo is an executable goal in Maven, and a **plugin** is a distribution of one or more related mojos.

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How to find dependencies on public Maven repositories?

You could use the following search engines:

- <http://search.maven.org>
- <http://repository.apache.org>
- <http://mvnrepository.com>

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