# **Plugins**

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### **Outline**

- Goals
- Phases
- Compiler plugin
- Jar plugin
- Sources plugin
- Javadoc plugin

### Goals

- The default goals are plugins configured in the maven install
  - clean, compile, test, package, install, deploy
- Super pom has these goals defined in it, which are added to your effective pom:

Goals are tied to a phase

### **Phases**

#### validate

Validate the project is correct and all necessary information is available

#### compile

Compile the source code of the project

#### test

Test the compiled source code

### package

Packages the code in its defined package, such as a JAR

### **Phases**

- integration-test
  - Deploy and run integration tests
- verify
  - Run checks against package to verify integrity
- install
  - Install the package in our local repo
- deploy
  - Copy final package to a remote repository

## **Compiler Plugin**

- Used to compile code and test code
- http://maven.apache.org/plugins/maven-compiler-plugin/index.html
- Invokes Javac, but with the classpath set from the dependencies
- Defaults to Java 1.5 regardless of what JDK is installed
- Configuration section allows customization
  - Includes/Excludes
  - □ Fork
  - Memory
  - Source/target

## **Jar Plugin**

- Used to package code into a jar
- http://maven.apache.org/plugins/maven-jar-plugin/index.html
- Tied to the package phase
- Configuration section allows customization
  - Includes/Excludes

## **Source Plugin**

- Used to attach source code to a jar
- http://maven.apache.org/plugins/maven-source-plugin/index.html
- Tied to the package phase
  - Often overridden to a later phase

## **Javadoc Plugin**

- Used to attach Javadocs to a jar
- http://maven.apache.org/plugins/maven-javadoc-plugin/index.html
- Tied to the package phase
  - Often overridden to a later phase
- Usually just use the defaults, but many customization options for Javadoc format

### **Summary**

- Goals are really just configured plugins in your application
- Plugins are tied to one of the defined phases, but can usually be overridden.
- The compile plugin is already defined for you, but is often changed to use a specific version of Java.
- The jar plugin is one of the default plugins and can be configured to produce artifacts to specific needs.
- Source and Javadocs can easily be generated to be installed in your corporate repository for use by other developers.