

# Plugins

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# Outline

**Goals**

**Phases**

**Compiler plugin**

**Jar plugin**

**Sources plugin**

**Javadoc plugin**

# Goals

## **Default Goals**

- **clean, compile, test, package, install, deploy**

## **Super pom has goals defined**

- **inherently added to the effective pom**

```
<plugin>
  <artifactId>maven-clean-plugin</artifactId>
  <version>3.1.0</version>
  <executions>
    <execution>
      <id>clean</id>
      <phase>clean</phase>
      <goals>
        <goal>clean</goal>
      </goals>
    </execution>
  </executions>
</plugin>
```

# Phases

## **validate**

- **Validate project and structure**

## **compile**

- **Compile any source in the project**

## **Test**

- **Test the compiled code**

## **package**

- **Packages the code in the specified package type**

# Phases

## **integration-test**

- **Deploy and run integration tests**

## **verify**

- **Run checks to verify integrity**

## **install**

- **Install package in local repo**

## **deploy**

- **Copy package to remote repo**

# Compiler Plugin

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-compiler-plugin</artifactId>
  <version>3.8.0</version>
  <configuration>
    <release>11</release>
  </configuration>
</plugin>
```

**Invokes javac**

**Defaults older**

**Configuration**

**fork**

**Memory**

**source/target**

# Jar Plugin



**Package**

**Package phase**

**Configuration**

**includes/excludes**

**Manifest**



# Source Plugin



**Package source code**

**Package phase**

**Overridden to later phase**

# Javadoc Plugin



**Package javadocs**

**Package phase**

**Overridden to later phase**

**Defaults**

**Many customization options**

# Summary

**Goals**

**Plugins**

**Compiler plugin**

**Jar plugin**

**Source and Javadocs**