Available Plugins

Maven is - at its heart - a plugin execution framework; all work is done by plugins. Looking for a specific goal to execute? This page lists the core plugins and others. There are the build and the reporting plugins:

- **Build** plugins will be executed during the build and they should be configured in the `<build/>` element from the POM.
- **Reporting** plugins will be executed during the site generation and they should be configured in the `<reporting/>` element from the POM. Because the result of a Reporting plugin is part of the generated site, Reporting plugins should be both internationalized and localized. You can read more about the localization of our plugins and how you can help.

Supported By The Maven Project

To see the most up-to-date list browse the Maven repository, specifically the `org/apache/maven/plugins` subfolder. *(Plugins are organized according to a directory structure that resembles the standard Java package naming convention)*

Plugin	Type*	Version	Release Date	Description	Source Repository	Issue Tracking
Core plugins				Plugins corresponding to default core phases (ie. clean, compile). They may have multiple goals as well.		
`clean`	B	2.6.1	2014-10-26	Clean up after the build.	SVN	JIRA
`compiler`	B	3.3	2015-03-26	Compiles Java sources.	SVN	JIRA
`deploy`	B	2.8.2	2014-08-27	Deploy the built artifact to the remote repository.	SVN	JIRA
`failsafe`	B	2.18.1	2014-12-28	Run the JUnit integration tests in an isolated classloader.	GIT	JIRA
`install`	B	2.5.2	2014-08-27	Install the built artifact into the local repository.	SVN	JIRA
`resources`	B	2.7	2014-09-29	Copy the resources to the output directory for including in the JAR.	SVN	JIRA

`site`	B	3.4	2014-07-07	Generate a site for the current project.	SVN	JIRA
`surefire`	B	2.18.1	2014-12-28	Run the JUnit unit tests in an isolated classloader.	GIT	JIRA
`verifier`	B	1.1	2015-04-14	Useful for integration tests - verifies the existence of certain conditions.	SVN	JIRA
Packaging types/tools				**These plugins relate to packaging respective artifact types.**		
`ear`	B	2.10.1	2015-06-27	Generate an EAR from the current project.	SVN	JIRA
`ejb`	B	2.5.1	2015-06-20	Build an EJB (and optional client) from the current project.	SVN	JIRA
`jar`	B	2.6	2015-03-09	Build a JAR from the current project.	SVN	JIRA
`rar`	B	2.4	2014-09-08	Build a RAR from the current project.	SVN	JIRA
`war`	B	2.6	2015-01-08	Build a WAR from the current project.	SVN	JIRA
`app-client/acr`	B	1.1	2014-09-02	Build a JavaEE application client from the current project.	SVN	JIRA
`shade`	B	2.4.1	2015-07-14	Build an Uber-JAR from the current project, including dependencies.	SVN	JIRA
`source`	B	2.4	2014-10-07	Build a source-JAR from the current project.	SVN	JIRA
Reporting plugins				**Plugins which generate reports, are configured as reports in the POM and run under the**		

				site generation lifecycle.		
`changelog`	R	2.3	2014-06-24	Generate a list of recent changes from your SCM.	SVN	JIRA
`changes`	B+R	2.11	2014-09-28	Generate a report from an issue tracker or a change document.	SVN	JIRA
`checkstyle`	B+R	2.16	2015-07-20	Generate a Checkstyle report.	SVN	JIRA
`doap`	B	1.2	2015-03-17	Generate a Description of a Project (DOAP) file from a POM.	SVN	JIRA
`docck`	B	1.1	2015-04-03	Documentation checker plugin.	SVN	JIRA
`javadoc`	B+R	2.10.3	2015-04-14	Generate Javadoc for the project.	SVN	JIRA
`jxr`	R	2.5	2014-11-02	Generate a source cross reference.	SVN	JIRA
`linkcheck`	R	1.2	2014-10-08	Generate a Linkcheck report of your project's documentation.	SVN	JIRA
`pmd`	B+R	3.5	2015-07-06	Generate a PMD report.	SVN	JIRA
`project-info-reports`	R	2.8	2015-01-05	Generate standard project reports.	SVN	JIRA
`surefire-report`	R	2.18.1	2014-12-28	Generate a report based on the results of unit tests.	GIT	JIRA
Tools				**These are miscellaneous tools available through Maven by default.**		
`ant`	B	2.4	2014-12-15	Generate an Ant build file for the project.	SVN	JIRA
`antrun`	B	1.8	2014-12-26	Run a set of ant tasks from a phase of the	SVN	JIRA

				build.		
`archetype`	B	2.3	2015-03-13	Generate a skeleton project structure from an archetype.	SVN	JIRA
`assembly`	B	2.5.5	2015-06-04	Build an assembly (distribution) of sources and/or binaries.	SVN	JIRA
`dependency`	B+R	2.10	2015-01-27	Dependency manipulation (copy, unpack) and analysis.	SVN	JIRA
`enforcer`	B	1.4	2015-01-29	Environmental constraint checking (Maven Version, JDK etc), User Custom Rule Execution.	SVN	JIRA
`gpg`	B	1.6	2015-01-19	Create signatures for the artifacts and poms.	SVN	JIRA
`help`	B	2.2	2013-02-23	Get information about the working environment for the project.	SVN	JIRA
`invoker`	B+R	2.0.0	2015-06-27	Run a set of Maven projects and verify the output.	SVN	JIRA
`jarsigner`	B	1.4	2015-01-21	Signs or verifies project artifacts.	SVN	JIRA
`patch`	B	1.2	2015-03-09	Use the gnu patch tool to apply patch files to source code.	SVN	JIRA
`pdf`	B	1.3	2015-02-16	Generate a PDF version of your project's documentation.	SVN	JIRA
`plugin`	B+R	3.4	2015-01-04	Create a Maven plugin descriptor for any mojos found in the source tree, to include in the JAR.	SVN	JIRA

`release`	B	2.5.2	2015-04-22	Release the current project - updating the POM and tagging in the SCM.	SVN	JIRA
`remote-resources`	B	1.5	2013-08-14	Copy remote resources to the output directory for inclusion in the artifact.	SVN	JIRA
`repository`	B	2.4	2015-02-22	Plugin to help with repository-based tasks.	SVN	JIRA
`scm`	B	1.9.4	2015-04-01	Execute SCM commands for the current project.	GIT	JIRA
`scm-publish`	B	1.1	2014-05-18	Publish your Maven website to a scm location.	SVN	JIRA
`stage`	B	1.0	2015-03-03	Assists with release staging and promotion.	SVN	JIRA
`toolchains`	B	1.1	2014-11-12	Allows to share configuration across plugins.	SVN	JIRA
IDEs				**Plugins that simplify integration with integrated developer environments.**		
`eclipse`	B	2.10	2015-05-27	Generate an Eclipse project file for the current project.	SVN	JIRA

* **B**uild or **R**eporting plugin

There are also some sandbox plugins into our source repository.

Previous archived versions of plugins reference documentations are located here.

Retired

Plugin	Type*	Version	Retired Date	Description

`idea`	B	2.2.1	2013-07-26	Create/update an IDEA workspace for the current project (individual modules are created as IDEA modules)
`one`	B	1.3	2013-07-30	A plugin for interacting with legacy Maven 1.x repositories and builds.
`reactor`	B	1.1	2014-03-24	Build a subset of interdependent projects in a reactor (Maven 2 only).

Outside The Maven Land

At codehaus.org

Due to the shutdown of codehaus.org all plugins are under transition to the new location. This means that currently some of the links might be invalid. We are continiously cleaning up the links.

There are also many plug-ins available at the MojoHaus project at GitHub.

Here are a few common ones:

Plugin (see complete list with version)	Description
`animal-sniffer`	Build signatures of APIs (JDK for example) and checks your classes against them.
`build-helper`	Attach extra artifacts and source folders to build.
`castor`	Generate sources from an XSD using Castor.
`clirr`	Compare binaries or sources for compatibility using Clirr
`javacc`	Generate sources from a JavaCC grammar.
`jdepend`	Generate a report on code metrics using JDepend.
`nar-maven-plugin`	Compiles C, C++, Fortran for different architectures.
`native`	Compiles C and C++ code with native compilers.
`sql`	Executes SQL scripts from files or inline.
`taglist`	Generate a list of tasks based on tags in your code.
`versions`	Manage versions of your project, its modules, dependencies and plugins.

At code.google.com

There are also many plug-ins available at the Google Code.

Misc

A number of other projects provide their own Maven plugins. This includes:

Plugin	Maintainer	Description
`cargo`	Cargo Project	Start/stop/configure J2EE containers and deploy to them.
`clover`	Atlassian Clover	Generate a Clover report.
`jetty`	Jetty Project Eclipse	Jetty Run a Jetty container for rapid webapp development.
`jalopy`	Triemax	Use Jalopy to format your source code.
`rat`	Apache Creadur Project	Release Audit Tool (RAT) to verify files.
`Genesis Plugins`	Apache Geronimo Project	Verify legal files in artifacts.
`Apache Tomcat`	Apache Tomcat Project	Run an Apache Tomcat container for rapid webapp development.

Resources

1. Guide to Configuring Plugins