Maven Lifecycles Cheat Sheet

by ericwyles via cheatography.com/54695/cs/14612/

Default Lifecycle

Phase	Default Binding	Default Binding
validate		validate the project is correct and all necessary information is available.
initialize		initialize build state, e.g. set properties or create directories.
generate-sources		generate any source code for inclusion in compilation.
process-sources		process the source code, for example to filter any values.
generate-resources		generate resources for inclusion in the package.
process-resources	**resources:resources**	copy and process the resources into the destination directory, ready for packaging.
compile	**compiler:compile**	compile the source code of the project.
process-classes		post-process the generated files from compilation
generate-test-sources		generate any test source code for inclusion in compilation.
process-test-sources		process the test source code, for example to filter any values.
generate-test-resources		create resources for testing.
process-test-resources	**resources:testResources**	copy and process the resources into the test destination directory.
test-compile	**compiler:testCompile**	compile the test source code into the test destination directory
process-test-classes		post-process the generated files from test compilation
test	**surefire:test**	run unit tests using a suitable unit testing framework.
prepare-package		perform any operations necessary to prepare a package before the actual packaging.
package	**jar:jar** *or* **war:war**	take the compiled code and package it in its distributable format, such as a JAR.
pre-integration-test		perform actions required before integration tests are executed.
integration-test		execute integration tests.
post-integration-test		perform actions required after integration tests have been executed.
verify		run any checks on results of integration tests to ensure quality criteria are met
install	**install:install**	install the package into the local repository, for use as a dependency in other projects locally.

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Default Lifecycle (cont)

deploy	**deploy:deploy**	copies the final package to the remote repository for sharing with other developers and projects.

Clean Lifecycle

Phase	Default Binding	Description
pre-clean		execute processes needed prior to the actual project cleaning
clean	**clean:clean**	remove all files generated by the previous build
post-clean		execute processes needed to finalize the project cleaning

Site Lifecycle

pre-site		execute processes needed prior to the actual project site generation
site	site:site	generate the project's site documentation
post-site		execute processes needed to finalize the site generation, and to prepare for site deployment
site-deploy	site:deploy	deploy the generated site documentation to the specified web server

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