Running Apache Maven

The syntax for running Maven is as follows:

```
1. mvn [options] [<goal(s)>] [<phase(s)>]
```

All available options are documented in the built in help that you can access with

```
1. mvn -h
```

The typical invocation for building a Maven project uses a Maven life cycle phase. E.g.

```
1. mvn package
```

The built in life cycles and their phases are in order are:

- clean - pre-clean, clean, post-clean

- default - validate, initialize, generate-sources, process-sources, generate-resources, process-resources, compile, process-classes, generate-test-sources, process-test-sources, generate-test-resources, process-test-resources, test-compile, process-test-classes, test, prepare-package, package, pre-integration-test, integration-test, post-integration-test, verify, install, deploy

- site - pre-site, site, post-site, site-deploy

A fresh build of a project generating all packaged outputs and the documentation site and deploying it to a repository manager could be done with

```
1. mvn clean deploy site-deploy
```

Just creating the package and installing it in the local repository for re-use from other projects can be done with

```
1. mvn clean install
```

This is the most common build invocation for a Maven project.

When not working with a project, and in some other use cases, you might want to invoke a specific task implemented by a part of Maven - this is called a goal of a plugin. E.g.:

```
1. mvn archetype:generate
```

or

```
1. mvn checkstyle:check
```

There are many different plugins avaiable and they all implement different goals.

Further resources:

- Building a Project with Maven

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