Maven

Build Tool

Build Process

Code to Software

- Source code
- Compile
- Test
- Package

Build Process

Maven™

Build Tools => Automates Build Process

Maven

Java.
Build file: XML Format

Ant

Java
Build file: XML Format

MsBuild

The Microsoft Build Engine is a platform for building applications

Gradle

DSL based on Groovy

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Windows .net platform

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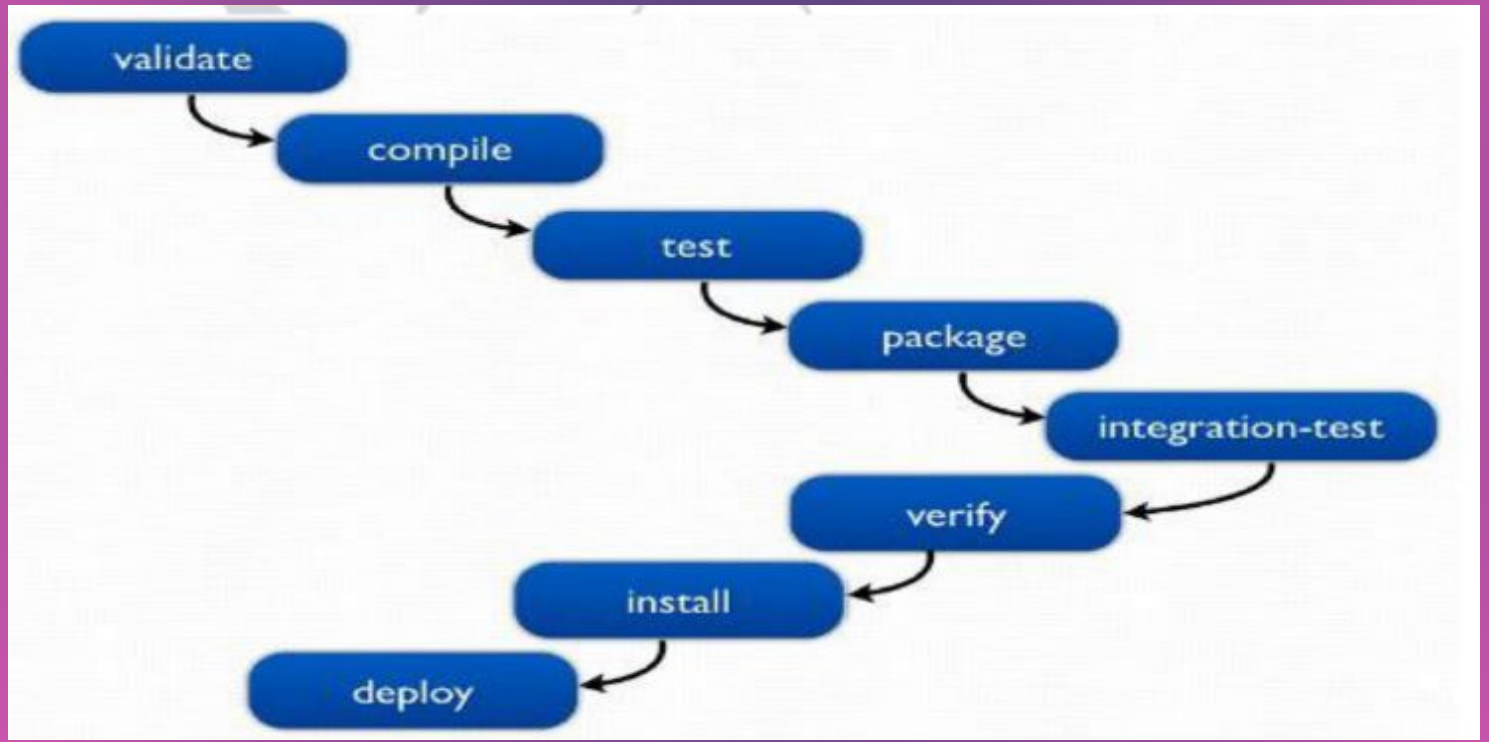
Make

builds executable programs and libraries from source code

Maven

Build Tool for JAVA

Maven Phases



A Build Lifecycle is Made Up of 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 using a suitable unit testing framework. These tests should not require the code be packagedor deployed
- **package** - take the compiled code and package it in its distributable format, such as a JAR.
- **verify** - run any checks on results of integration tests to ensure quality criteria are met
- **install** - install the package into the local repository, for use as a dependency in other projects locally
- **deploy** - done in the build environment, copies the final package to the remote repository for sharing with other developers and projects.

https://maven.apache.org/guides/introduction/introduction-to-the-lifecycle.html

Installing Maven

- **Dependency**
  - Java Development Kit (JDK)

choco install maven

brew install maven

Install via Package manager (yum, apt, snap etc)