

# Maven

- Dependency manager for our project
- Build tool
- **Maven build lifecycle** (you can't progress from one phase to the next unless the previous phase was successful)
  - **Validate:** making sure all of the dependencies are available and the pom.xml is valid
  - **Compile:** will compile our Java source code into bytecode
  - **Test:** Run all of the tests
  - **Package:** take our compiled code and place it inside of a .jar file
  - Integration test: runs any integration tests
  - Verify: make sure all of the integration tests pass
  - Install: take our project and install it locally on our local Maven repository
  - Deploy: upload our local Maven project to mvnrepository