

## 2. Maven

Thursday, November 26, 2020

9:30 AM

- ✓ 1. What is maven?
  - **Maven** is a build automation tool **used** primarily for Java projects.
- ✓ 2. Maven installation
  - [https://www.tutorialspoint.com/maven/maven\\_environment\\_setup.htm](https://www.tutorialspoint.com/maven/maven_environment_setup.htm)
  - <https://mkyong.com/maven/how-to-install-maven-in-windows/> - wind 10
  - <https://maven.apache.org/download.cgi> - download maven here
- ✓ 3. Project creating (artifact id, project id)
  - 3.1.1 - mvn archetype:generate -  
DarchetypeGroupId=org.apache.maven.archetypes -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4
  - 3.1.2 - use intellij idea maven
  - 3.2 - specify manifest :

```
<configuration>  
  <archive>  
    <manifest>  
      <mainClass>path to main file</mainClass>  
    </manifest>  
  </archive>  
</configuration>
```
- ✓ 4. Pom(Project Object Model) and maven repository(local, central, remote)
- ✓ 5. Resources package
- ✓ 6. Maven cycle
  - mvn clean - clean source files
  - mvn package - test, package into jar, war and so on
  - mvn install - download dependencies from central repository and install into inner one&package into jar
- ✓ 7. Maven multimodule
- ✓ 8. Package into jar and include in another project
9. Optional - maven profiles
10. Optional - maven plugins





