

# Object-Oriented Programming in

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*based on work from:*

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14 September 2020

- Goal: Manage compilation chain & dependencies

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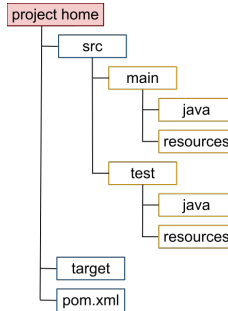
<sup>1</sup><https://dzone.com/refcardz/apache-maven-2>

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- Uses conventions

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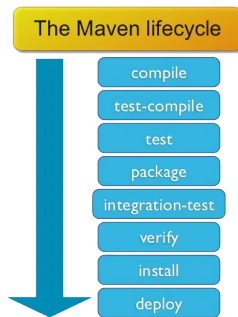
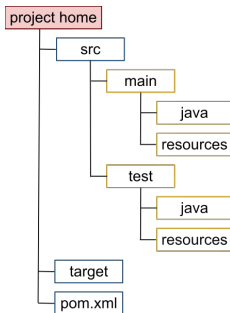
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  - Project architecture



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  - Project architecture
  - Pre-configured rules: clean, compile...



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- Example usage:  
`mvn clean compile`

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- Configuration via `pom.xml` file
- Example usage:  
`mvn clean compile`
- We will let Eclipse do (most of) that for us!!

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# Maven – Example pom.xml file

```
1  <project>
2    <!-- model version is always 4.0.0 for Maven 2.x POMs -->
3    <modelVersion>4.0.0</modelVersion>
4    <!-- project coordinates, i.e. a group of values which uniquely identify this project -->
5    <groupId>com.mycompany.app</groupId>
6    <artifactId>my-app</artifactId>
7    <version>1.0</version>
8    <!-- library dependencies -->
9    <dependencies>
10      <dependency>
11        <!-- coordinates of the required library -->
12        <groupId>junit</groupId>
13        <artifactId>junit</artifactId>
14        <version>3.8.1</version>
15        <!-- this dependency is only used for running and compiling tests -->
16        <scope>test</scope>
17      </dependency>
18    </dependencies>
19  </project>
```

- archetype for simple JAvA project =  
maven-archetype-quickstart
- `groupId`  $\approx$  package
- `artifactId`  $\approx$  main class