

Integrating the JAXB Tools into Your Build Process



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Overview



Using Maven

- Generating an XSD from Java classes
- Generating Java classes from an XSD

Using Gradle

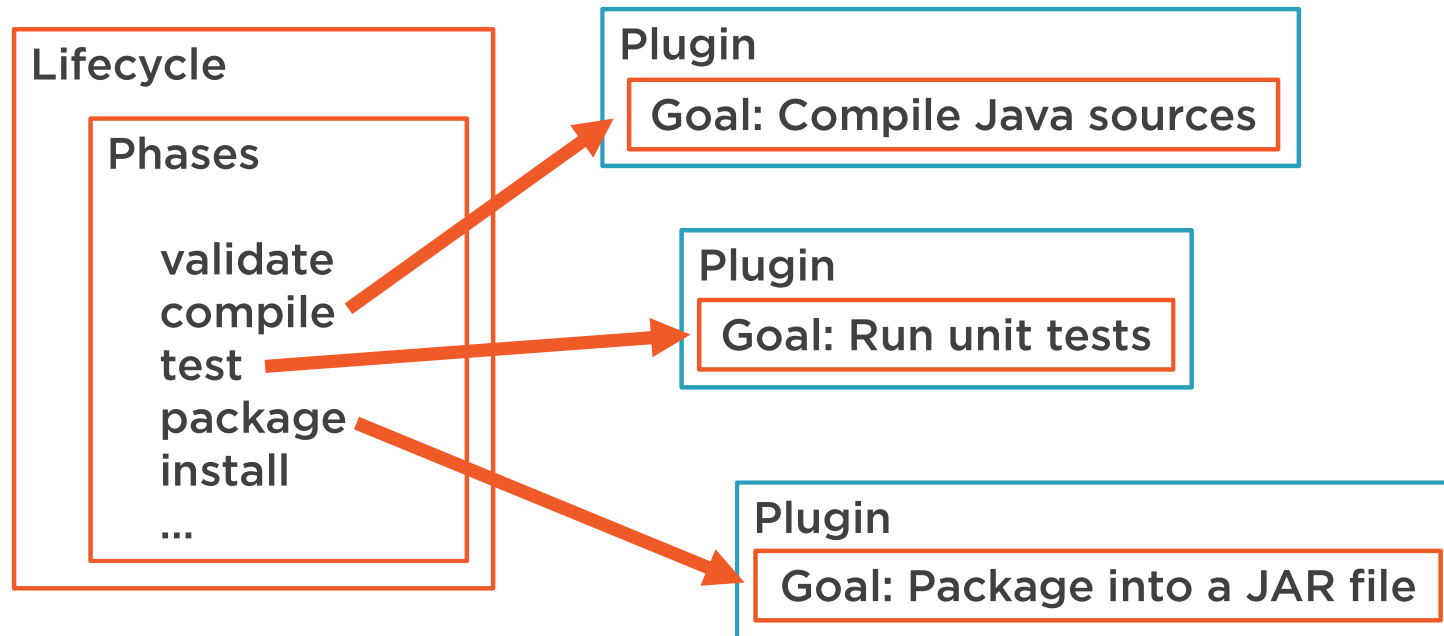
- Generating an XSD from Java classes
- Generating Java classes from an XSD



Generating an XSD from Java Classes Using Maven



Quick Overview of Maven



Quick Overview of Maven

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org
    <modelVersion>4.0.0</modelVersion>

    <groupId>com.jesperdj.jaxb</groupId>
    <artifactId>ps-jaxb-30-maven-schemagen</artifactId>
    <version>1.0</version>

    <properties>
      <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    </properties>

    <build>
      <pluginManagement>
        <plugins>
          <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.7.0</version>
            <configuration>
```



More About Maven

Pluralsight course: **Maven Fundamentals** – Bryan Hansen

<http://maven.apache.org>

ps-jaxb-30-maven-schemagen



JAXB2 Maven Plugin

<http://www.mojohaus.org/jaxb2-maven-plugin/Documentation/v2.3.1/>



Generating Java Classes from an XSD Using Maven



The Schema-first Approach with Maven

ps-jaxb-31-maven-xjc



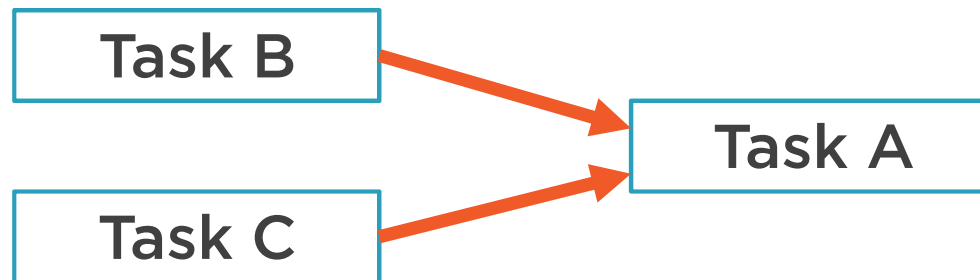
Generating an XSD from Java Classes Using Gradle



Quick Overview of Gradle

Task-oriented

Tasks can depend on other tasks



Quick Overview of Gradle

build.gradle

```
plugins {  
    id 'java'  
    id 'com.intershop.gradle.jaxb' version '2.0.0'  
}  
  
sourceCompatibility = 1.8  
  
repositories {  
    mavenCentral()  
}  
  
jaxb.schemaGen {  
    example {  
        javaFiles = fileTree(dir: 'src/main/java', include: 'com/jesperdj/jaxb/domain/*.java')  
        namespaceconfigs = ['http://www.jesperdj.com/ps-jaxb': 'purchaseOrder.xsd']  
    }  
}  
  
sourceSets.main {  
    resources {  
        srcDirs = ['build/generated/jaxb/schema/example']  
        includes = ['*.xsd']  
    }  
}
```



More About Gradle

Pluralsight course: **Gradle Fundamentals** – Kevin Jones

<https://gradle.org>

ps-jaxb-32-gradle-schemagen



JAXB Plugin for Gradle

<https://github.com/IntershopCommunicationsAG/jaxb-gradle-plugin>



Generating Java Classes from an XSD Using Gradle



The Schema-first Approach with Gradle

ps-jaxb-33-gradle-xjc



Summary



Using Maven

- jaxb2-maven-plugin
- schemagen goal
- xjc goal

Using Gradle

- com.intershop.gradle.jaxb plugin
- jaxb.schemaGen task
- jaxb.javaGen task

