

Dependencies



Bryan Hansen

<http://completeprogrammer.com>

twitter: @completeprog

Outline

Versions

Types

Transitive Dependencies

Scopes

```
<dependencies>
  <dependency>
    <groupId>org.apache.commons</groupId>
    <artifactId>commons-lang3</artifactId>
    <version>3.8.1</version>
  </dependency>
</dependencies>
```

List what you need

Transitive

3 items required:

groupId

artifactId

version

Versions

SNAPSHOT

myapp-1.0-SNAPSHOT.jar

Release

Industry common terms

myapp-1.0-M1.jar

myapp-1.0-RC1.jar

myapp-1.0-RELEASE.jar

myapp-1.0-Final.jar

```
<groupId>com.pluralsight</groupId>  
<artifactId>HelloWorld</artifactId>  
<version>1.0-SNAPSHOT</version>  
<modelVersion>4.0.0</modelVersion>  
<packaging>jar</packaging>
```

Packaging Types

pom, jar, war, ear, maven-plugin

Default jar

Dependency Pom

Transitive Dependencies

If you add a dependency:

```
<dependency>  
  <groupId>org.hibernate</groupId>  
  <artifactId>hibernate-core</artifactId>  
  <version>5.4.1.Final</version>  
</dependency>
```

Transitive Dependencies are downloaded:

- antlr : 2.7.7 [compile]
- byte-buddy : 1.9.5 [compile]
- classmate : 1.3.4 [compile]
- commons-lang3 : 3.8.1 [compile]
- dom4j : 2.1.1 [compile]
- FastInfoset : 1.2.15 [compile]
- hibernate-commons-annotations : 5.1.0.Final [compile]
- hibernate-core : 5.4.1.Final [compile]
- istack-commons-runtime : 3.0.7 [compile]
- jandex : 2.0.5.Final [compile]
- javassist : 3.24.0-GA [compile]
- javax.activation-api : 1.2.0 [compile]
- javax.persistence-api : 2.2 [compile]
- jaxb-api : 2.3.1 [compile]
- jaxb-runtime : 2.3.1 [compile]
- jboss-logging : 3.3.2.Final [compile]
- jboss-transaction-api_1.2_spec : 1.1.1.Final [compile]
- stax-ex : 1.8 [compile]
- txw2 : 2.3.1 [compile]

Scopes

compile

provided

runtime

test

system

import

Demo

Add a dependency

Reference transitive dependencies

Use scopes

Summary

Version numbers

SNAPSHOT

Types

Transitive dependencies

Scopes