<https://www.cnblogs.com/tiramisuyj/p/4811782.html>

# **[关于maven依赖中的<scope>provided</scope>使用](https://www.cnblogs.com/tiramisuyj/p/4811782.html)**

今天开发web的时候，需要用到servlet-api，于是在pom.xml中添加依赖

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>servlet-api</artifactId>

<version>3.0-alpha-1</version>

</dependency>

通过插件启动tomcat的时候，报错，里面有一段是这样的：

[IMG_256](https://www.cnblogs.com/tiramisuyj/p/javascript:void(0);)

Caused by: java.lang.LinkageError: loader constraint violation: loader (instance of org/apache/catalina/loader/WebappClassLoader) previously initiated loading for a different type with name "javax/servlet/ServletContext"

at java.lang.ClassLoader.defineClass1(Native Method)

at java.lang.ClassLoader.defineClass(ClassLoader.java:800)

at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:142)

at java.net.URLClassLoader.defineClass(URLClassLoader.java:449)

at java.net.URLClassLoader.access$100(URLClassLoader.java:71)

at java.net.URLClassLoader$1.run(URLClassLoader.java:361)

at java.net.URLClassLoader$1.run(URLClassLoader.java:355)

[IMG_257](https://www.cnblogs.com/tiramisuyj/p/javascript:void(0);)

产生的原因是：tomcat中也有servlet-api包，这样，发生了冲突

解决方法：添加<scope>provided</scope>，因为provided表明该包只在编译和测试的时候用，所以，当启动tomcat的时候，就不会冲突了，完整依赖如下：

[IMG_258](https://www.cnblogs.com/tiramisuyj/p/javascript:void(0);)

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>servlet-api</artifactId>

<version>3.0-alpha-1</version>

<scope>provided</scope>

</dependency>

[IMG_259](https://www.cnblogs.com/tiramisuyj/p/javascript:void(0);)