

Maven下载与配置

1. 下载

(1) 地址

<https://maven.apache.org/download.cgi>

(2) win系统下载zip压缩包

Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the release bundles against the public [KEYS](#) used by the Apache Maven developers.

	Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.6.3-bin.tar.gz	apache-maven-3.6.3-bin.tar.gz.sha512	apache-maven-3.6.3-bin.tar.gz.asc
Binary zip archive	apache-maven-3.6.3-bin.zip	apache-maven-3.6.3-bin.zip.sha512	apache-maven-3.6.3-bin.zip.asc
Source tar.gz archive	apache-maven-3.6.3-src.tar.gz	apache-maven-3.6.3-src.tar.gz.sha512	apache-maven-3.6.3-src.tar.gz.asc
Source zip archive	apache-maven-3.6.3-src.zip	apache-maven-3.6.3-src.zip.sha512	apache-maven-3.6.3-src.zip.asc

- [Release Notes](#)
- [Reference Documentation](#)

2. 配置

(1) 配置JAVA_HOME、Path

JAVA_HOME: D:\Java\jdk1.8.0_241

Path: %JAVA_HOME%\bin

(Maven环境依赖于Java环境，所以必须配置JAVA_HOME)

(2) 配置MAVEN_HOME (或M2_HOME)

D:\apache-maven-3.6.3

我的电脑在配置MAVEN_HOME后存在问题：开机后会失效

(3) 配置path

%MAVEN_HOME%\bin

或者省去第 (2) 步骤直接配置path: D:\apache-maven-3.6.3\bin (我是直接配置的path)

(4) 验证

mvn -v (小写)

(5) 配置本地仓库

maven目录/conf/settings.xml

默认本地仓库

```
${user.home}/.m2/repository
```

修改本地仓库

```
<localRepository>D:/mavenstore</localRepository>
```

```
Default: ${user.home}/.m2/repository
<localRepository>/path/to/local/repo</localRepository>
-->
<localRepository>D:/mavenstore</localRepository>
<!-- interactiveMode
| This will determine whether maven prompts you when it needs
| maven will use a sensible default value, perhaps based on a
```

3.使用maven

一个软件开发的概念：约定优于配置

(1) 硬编码方式

```
aMethod.setPath("D:\\abc");
```

写在程序里面，程序打包后不可修改

(2) 配置方式

aMethod去读conf.xml

```
conf.xml中写<path>D:\\abc</path>
```

(3) 约定方式

使用默认值D:\abc

```
aMethod
```

4.maven约定的目录结构

项目名称				
	src			
		main	程序功能代码	
			java	java代码
			resources	资源代码、配置代码
		test	测试代码	
			java	java代码
			resources	资源代码、配置代码
	pom.xml			

pom.xml：项目对象模型，可以将项目看成节点

pom.xml文件用有g、a、v去指定这个项目的坐标，看成一个节点

```
<groupId>域名翻转.大项目名</groupId>
<groupId>nuc.hzb</groupId>
<artifactId>子模块名</artifactId>
<artifactId>HelloWorld</artifactId>
<version>版本号</version>
<version>0.0.1-SNAPSHOT</version>
```

一个简单pom.xml文件

```
<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/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>nuc.hzb</groupId>
  <artifactId>HelloWorld</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.0</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
</project>
```