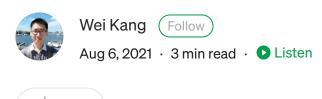






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How To Increment Versions For Maven Build Java Project — Part 1

One of the ways to increment versions for a Maven build Java project.



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Before we start, let's assume we have the following information in our pom.xml.

Reference: https://raw.githubusercontent.com/weikangchia/increment-version-maven/master/pom.xml

The plugins that we will need are:

- <u>org.codehaus.mojo:build-helper-maven-plugin</u>
 A plugin to assist with the Maven build lifecycle
- <u>org.codehaus.mojo:versions-maven-plugin</u>

 A plugin to help manage the versions of artifacts in a project's POM

```
1
    <plugins>
2
3
      <plugin>
          <groupId>org.codehaus.mojo</groupId>
4
          <artifactId>build-helper-maven-plugin</artifactId>
5
6
          <version>3.2.0
7
      </plugin>
      <plugin>
8
          <groupId>org.codehaus.mojo</groupId>
9
10
          <artifactId>versions-maven-plugin</artifactId>
11
          <version>2.8.1
12
      </plugin>
```









Get started

Reference: https://raw.githubusercontent.com/weikangchia/increment-version-maven/steps/1-add-plugins/pom.xml

Build Helper Maven Plugin

The <u>Build Helper Maven</u> plugin provides a goal, called the <u>build-helper:parse-version</u>. This goal parses a version string (default: \${project.version}) and set properties containing the component parts of the version.

```
[propertyPrefix].majorVersion
[propertyPrefix].incrementalVersion
[propertyPrefix].qualifier
[propertyPrefix].buildNumber
[propertyPrefix].nextMajorVersion
[propertyPrefix].nextMinorVersion
[propertyPrefix].nextIncrementalVersion
[propertyPrefix].nextBuildNumber
```

FYI: The default value for the propertyPrefix is parsedVersion

The goal also set the following properties:

```
[formattedPropertyPrefix].majorVersion
[formattedPropertyPrefix].incrementalVersion
[formattedPropertyPrefix].buildNumber
[formattedPropertyPrefix].nextMajorVersion
[formattedPropertyPrefix].nextMinorVersion
[formattedPropertyPrefix].nextIncrementalVersion
[formattedPropertyPrefix].nextBuildNumber
```

FYI: The default value for the <u>formattedPropertyPrefix</u> is formattedVersion

Now let's try with an example:









Get started

In the output, we will see the following properties:



Screenshot of the properties section of the output from the effective-pom

Bump A Patch Version

Format:

\${parsedVersion.majorVersion}.\${parsedVersion.minorVersion}.\${parsedVersion.nextIncre}
mentalVersion}

Output: 0.0.1









Get started

Output: 0.1.0

Bump A Major Version

Format: \${parsedVersion.majorVersion}.0.0

Output: 1.0.0

Versions Maven Plugin

The <u>Versions Maven</u> plugin provides a goal, called the <u>versions:set</u>. This goal sets the current project's version and based on that change propagates that change onto any child modules as necessary.

Now let's try with an example:

```
mvn versions:set -DnewVersion=0.0.1
```

In the output, we will see the following messages to inform us that it has been updated successfully.

Screenshot of the output









Get started

That's it, we have all the ingredients, we can now put them together to increment versions for our Maven build Java project.

First, let's update the Build Helper Maven plugin in the plugin section of our pom.xml.









Get started

Next, create 3 profiles to do the following:

- bump-patch

 This profile will be activated when given the property, bumpPatch
- bump-minor

 This profile will be activated when given the property, bumpMinor
- bump-major

 This profile will be activated when given the property, bumpMajor









Get started

Now let's try out the 3 profiles that we have just created.

bumpPatch

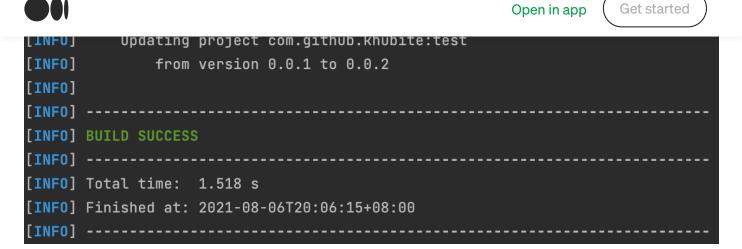
mvn validate -DbumpPatch

Output:









Screenshot of the output

bumpMinor

```
mvn validate -DbumpMinor
```

Output:

Screenshot of the output

bumpMajor









Get started

Screenshot of the output

And there we have it. I hope you have found this useful. Thank you for reading. You may find the complete pom.xml for this article from here.

Stay tuned for the next article, as I will show you how to increment a version that doesn't follow the <u>Semantic versioning</u> (e.g. $1.0.0_{-}1.0.0$) $\stackrel{\checkmark}{ }$.

How To Increment Versions For Maven Build Java Project — Part 2

One of the ways to increment versions for a Maven build Java project that does not follow Semantic versioning.

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