

File Editor Maven Support

User Guide

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1 FileEditorMavenPlugin User Guide

This is a trivially simple plugin that lets you run editing scripts on files. The *se.natusoft.tools.fileeditor:FileEditor:n.n* tool is used for the editing. This is a programmable only text editor. An instance of this called `editor` is always provided to each script.

The main reason for making this plugin is that I'm not OK with Sonatypes requirements for publishing to maven central. They are forcing me to use snapshot version when I have no need for such, and also forcing me to have something from them as top parent. I find a certain Apple/Microsoft arrogance at Sonatype, which I don't accept. With this plugin and a profile I can just clone my git repo, run the profile using this plugin to make my poms look like Sonatype requires them to look, run the submit procedure, and then delete the cloned repo.

1.1 Plugin example

```
<plugin>
  <groupId>se.natusoft.maven.plugin</groupId>
  <artifactId>file-editor-maven-plugin</artifactId>
  <version>1.0.0</version>

  <executions>
    <execution>
      <id>some-good-id</id>
      <goals>
        <goal>edit</goal>
      </goals>
      <phase>generate-sources</phase>
      <configuration>
        <scripts>
          <script>
            <code>
              Bean Shell java code ...
            </code>
            <scriptFile>The path to the bsh script to execute.</scriptFile>
            <sourcePath>Path to file to edit</sourcePath>
            <variables>
              <variable>
                <name>name</name>
                <value>value</value>
              </variable>
            </variables>
          </script>
        </scripts>
      </configuration>
    </execution>
  </executions>
</plugin>
```

The `<code>` and `<scriptFile>` tags are mutually exclusive. The first provides the code directly in the pom. The second points to a script file that gets executed.

Do note that the `<scriptFile>` tag can begin with *script:* which really means that it will be looked for within the classpath in package *se.natusoft.tools.fileeditor.scripts*. Otherwise a *java.io.File* object will be used to reference the file.

The variables are passed to the script and are only strings. That is, in the Bean Shell script there will be a *java.lang.String* variable with name *name* and value *value*.

1.2 Script examples

The following 3 scripts are available in the plugin package.

Anyone that uses this plugin and makes a generally useful editing script, please consider mailing it to me and I will include it in the next version.

1.2.1 **script:pom_add_parent.bsh**

```
/*
 * This script adds a parent to the pom.
 *
 * It requires the following variables:
 *   groupId
 *   artifactId
 *   version
 */
editor.moveToTopOfFile();
if (editor.find("<project")) {

    if (!editor.findFromCurrent("<parent>")) {
        if (editor.find("<modelVersion>")) {
            editor.insertLine("    <parent>");
            editor.insertLine("        <groupId>" + groupId + "</groupId>");
            editor.insertLine("        <artifactId>" + artifactId + "</artifactId>");
            editor.insertLine("        <version>" + version + "</version>");
            editor.insertLine("    </parent>");
        }
    }
}
```

1.2.2 **script:pom_add_snapshot_to_version.bsh**

```
/*
 * This script adds "-SNAPSHOT" to version.
 */
editor.moveToTopOfFile();
if (editor.find("<project>")) {

    // Skip to end of parent to avoid finding parent version. If this is not found
    // the current position is not moved.
    editor.findFromCurrent("</parent>");

    if (editor.findFromCurrent("<version>")) {
        String version = editor.getCurrentLineBetween("<version>", "</version>");
        if (!version.endsWith("-SNAPSHOT")) {
            editor.replaceCurrentLineBetween("<version>", "</version>", version + "-SNAPSHOT");
        }
    }
}
```

1.2.3 **script:pom-change_version.bsh**

This script is generally useful when having multi module projects and you keep the same version for modules. This allows you to put the version in only the top pom. Do not use `<forArtifactId>...</forArtifactId>` when using this, otherwise only one pom will be edited. Also note that if you use this, put a `<version>...</version>` tag in each pom instead of just inheriting version from parent so that no later `<version>...</version>` gets edited instead by accident!

```

/*
 * This script replaces the pom version.
 *
 * This requires the following variables:
 *   pomVersion - The new version to set to.
 *   changeParent - This will be converted to a boolean. If true the parent version
 *                  will also be changed.
 */
editor.moveToTopOfFile();
if (editor.find("<project") ) {

    boolean parent = Boolean.valueOf(changeParent);

    if (parent) {
        if (editor.findFromCurrent("<parent") ) {
            if (editor.findFromCurrent("<version>") ) {
                editor.replaceCurrentLineBetween("<version>", "</version>", pomVersion);
            }
        }
    }

    editor.findFromCurrent("</parent>")

    if (editor.findFromCurrent("<version>") ) {
        editor.replaceCurrentLineBetween("<version>", "</version>", pomVersion);
    }
}

```

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