

But fully configuring all executions, e.g. including version checks and injections e.g. of headers looks like this.

```
<project>
...
<plugin>
<groupId>eu.simuline.m2latex</groupId>
<artifactId>latex-maven-plugin</artifactId>
<version>2.0-SNAPSHOT</version>
<configuration>
<settings>
<!--targets>chk, pdf, html</targets-->
<!--cleanUp>false</cleanUp-->
...
</settings>
</configuration>
<executions>
<execution>
<id>process-latex-sources</id>
<!-- chk, dvi, pdf, html, odt, docx, rtf, txt -->
<goals><goal>cfg</goal></goals>
<!-- phase>site</phase-->
</execution>
<execution>
<id>clear-latex-sources</id>
<goals><goal>clr</goal></goals>
<!-- phase>clean</phase-->
</execution>
<execution>
<?m2e execute onConfiguration?>
<id>inject-files</id>
<goals><goal>inj</goal></goals>
<!-- phase>validate</phase-->
<configuration>
<injections>latexmkrc,chktxerc,header</injections>
</configuration>
</execution>
<execution>
<id>validate-converters</id>
<goals><goal>vrs</goal></goals>
<!-- phase>validate</phase-->
<configuration>
<versionsWarnOnly>true</versionsWarnOnly>
</configuration>
</execution>
</executions>
</plugin>
...
</project>
```

Note that even in this complex example, further configuration is only sketched, which is justified because there is in general little deviation from the default to be mentioned explicitly. So, more complex examples are rare.

For a full description of configuration, see the manual [Rei], Chapter 6.

References

- [Rei] E. Reißner. *Manual for the latex-maven-plugin and for an according ant-task, Version X.Y.* The current version is available at <http://www.simuline.eu/LatexMavenPlugin/manualLMP.pdf>.
- [Rei24] E. Reißner. Leaflet with/of the latex-maven-plugin. available at <http://www.simuline.eu/LatexMavenPlugin/docClasses/productLeaflet.pdf>, 2 2024.

Leaflet of the latex-maven-plugin

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The purpose of this leaflet is twofold:

- Give an overview over the plugin. But:
 - The single official description of the plugin is the manual [Rei].
 - The project site gives already an overview.
 - The content of this leaflet [Rei24] is updated only by need.
- Demonstrate that the plugin can compile a leaflet using the `leaflet` document class.

Features

Realized Features

Automatically creates documents from LaTeX sources during the Maven `site` phase and in an ant run.

This comprises running basic tools like `lualatex` and `bibtex` and rerunning them by need.

Input and output Supports

- many output formats like PDF, DVI, HTML, DOCX, RTF, TXT and others
- many graphical input formats like PNG, MP, FIG, gnuplot; also provides a separate goal creating them, `grp`
- bibliography, index, glossary and embedded code; in particular split index

Checks Checks

- sources with **chktex** and logs the results in target and goal **chk**
- versions of used tools via goal **vrs**
- log files detecting errors and warnings
- whether a document could have been reproduced, by demand

Orchestration and document development Orchestration of various tools detecting need for execution e.g. of **bibtex** including **rerunfilecheck** for **lualatex** and friends.

Supports document development, mainly by cooperating with editor, viewer and with other tools in the build chain. Offers

- various scripts, most notably an installation script for extensions of VS Code.
- configuration file **.chktexrc** for **chktex**.
- Oconfiguration file **.latexmkrc** for **latexmk** synchronized with the configuration.
- header files like **header.tex** to unify packages loaded by latex main files.

Planned Features

- Support **biber** replacing **bibtex** as preferred tool
- Support **xindy** replacing **makeindex** as preferred tool
- Support **bib2gls** replacing **makeglossary** as preferred tool
- Execute **glosstex** if needed
- Usage of the **multibib** macros
- ...

Goals

An overview is on the goals page.

Besides goals referring to creating output of a given type like **pdf**, **odt** and **html**, there is a goal **cfg**, which allows configuring various output formats as **targets**.

One further goal, **chk** to perform a check with **chktex** is allowed among the **targets**.

The other goals cannot serve as targets:

vrs to check versions of tools,

grp to create graphic files speeding up use of **latexmk** and

inj to inject useful files like headers or config files like **.latexmkrc**.

Examples

As this is the main usage of this software, usage refers to usage as a maven plugin. Since it did not yet make it into the repository maven central, it can be accessed only giving the source repository explicitly:

```
<project>
...
<repositories>
<repository>
  <id>publicRepoAtSimuline</id>
  <name>repo at simuline</name>
  <url>https://www.simuline.eu/RepositoryMaven</url>
</repository>
...
</project>
```

Also, it must be ensured that the plugin is executed when building the application and when building the according site. This is a side effect of configuring the **maven-jxr-plugin**.

```
<project>
...
<reporting>
<plugins>
...
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-jxr-plugin</artifactId>
  <version>3.3.0</version>
</plugin>
...
</plugins>
</reporting>
</project>
```

Given this, usage can be as simple as setting

```
<project>
...
<build>
  <plugins>
    <plugin>
      <groupId>eu.simuline.m2latex</groupId>
      <artifactId>latex-maven-plugin</artifactId>
      <version>2.0-SNAPSHOT</version>
      <executions>
        <execution>
          <phase>site</phase>
          <goals><goal>pdf</goal></goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
...
</project>
```