## Presentation with/of the latex-maven-plugin

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- a.ifclassloadedbeamerab



## Purpose

The purpose is twofold:

- Give an overview over the plugin
- Demonstrate that the plugin can compile the beamer class

The purpose is not to replace the manual [Rei].



### Purpose

Automatically create documents from LaTeX sources during the Maven site phase

- Output formats comprise PDF, DVI, XDV, (X)DOC, ODT, TXT and (X)HTML
- Allows typical graphic formats native to TEX (like EPS and metapost) or to the package graphicx.
- Includes bibliography, indices, glossaries and execution of program code.
- Furthermore, displays warnings if there is a hint that the result is not optimal. In particular checks for rerun, warnings and under/overfull boxes.



Realized Features

#### Ant and Maven

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



# Supported IO

- Supports many output formats like PDF, DVI, HTML, DOCX, RTF, TXT and others.
- Supports many graphical input formats like PNG, MP, FIG, gnuplot.
  Also provides a separate goal creating them, grp.
- Support of bibliography, index, glossary and embedded code. In particular supports split index.



### Checks

Automatically create documents from LaTeX sources during the Maven site phase

- Perform checks with chktex and logs the result.
- Performs version checks on used tools.
- Perform checks on sources and results and log files.
- Allows check whether a document could have been reproduced.



## 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 installation script for extensions of VS Code.
- Offers configuration file .chktexrc for chktex.
- Can create configuration file .latexmkrc for latexmk synchronized with the configuration.
- Offers a common header file 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
- ..

#### References I



F. Reißner.

Manual for the latex-maven-plugin and for an according ant-task, Version X.Y.

The current version is vailable at <a href="http://www.simuline.eu/LatexMavenPlugin/manualLMP.pdf">http://www.simuline.eu/LatexMavenPlugin/manualLMP.pdf</a>.

