Outline

Contents

1 Introduction and Purpose

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.

2 Features

2.1 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 rerun-filecheck 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.

2.2 Planned Features

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

- …

3 Installation

4 Goals

5 Usage

6 Examples

7 References

References

8 References

[Rei] E. Reißner. *Manual for the latex-maven-plugin and for an according ant-task, Version X.Y.* The current version is vailable at `http://www.simuline.eu/LatexMavenPlugin/manualL MP.pdf`.