# Presentation with/of the latex-maven-plugin

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# Outline

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# 1 Introduction and Purpose

This is some additional text

## Purpose of these documents

The purpose of this document is twofold:

- Give an overview over the plugin. But:
  - The single official description of the plugin is the manual [?].
  - The project site gives already an overview.
  - The content of this presentation is updated only by need.
- Demonstrate that the plugin can compile a presentation using the beamer class and a handout written as beamerarticle.
  - In fact, when citing this presentation as [?], this refers to both.
  - The presentation is about the plugin
  - The handout adds information on how to write a beamer presentation.
  - Both documents turn beamer class and package beamerarticle into preferred usage ensuring tests.

## 2 Features

#### 2.1 Realized Features

#### Ant and Maven

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.

## Supported IO

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

Check

- 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 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 Goals

#### 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.