

# STMI $\text{\LaTeX}$

## Overview and Installation Guide

Copyright © 2023 DLR SY STM  
v20231205

Thankfully inspired by the RM- $\text{\LaTeX}$ package guide.

Martin Rädcl

2023-12-05

STMI $\text{\LaTeX}$  is a template collection for  $\text{\LaTeX}$  documents. All features and templates are created due to personal interest and are subject to change. All packages are tested using MiKTeX 2.9. However, they are considered as “as-is” and without any warranty. For questions, suggestion and feedback, please contact the author of the particular package.

**STMI $\text{\LaTeX}$  requires an up to date  $\text{\LaTeX}$  installation.**

## Contents

<b>1</b>	<b>An Overview</b>	<b>1</b>
<b>2</b>	<b>Installation</b>	<b>3</b>
2.1	Windows: MiKTeX . . . . .	3
2.2	Linux: TeXLive . . . . .	3
2.2.1	Installation by an User . . . . .	3
2.2.2	Installation for all Users . . . . .	3
<b>3</b>	<b>Getting started</b>	<b>3</b>

## 1 An Overview

The following templates and tools are available in STMI $\text{\LaTeX}$ . Further information on each package can be found in the package documentation.

**stmcolors**

Color definitions.

**stmconditionalox**

Conditional lists of float environments.

**stmdate**

Date definitions.

**stm glossaries**

Acronyms and symbol definitions.

**stmhyperref**

Definitions for hypertext.

**stmindex**

Index definitions.

**stm language**

Language definitions.

**stm listings**

Listings definitions.

**stm math**

Math definitions.

**stm plots**

Plot definitions.

**stm text**

Documentclass for structural mechanics document preparation.

## **stmtikz**

Drawing definitions.

## **stmunits**

Units definitions.

# **2 Installation**

The STML<sup>A</sup>T<sub>E</sub>X package can be downloaded or cloned from <https://github.com/raedma/stmlatex>. The installation procedure for the STML<sup>A</sup>T<sub>E</sub>X package on different operating systems is explained in the following.

## **2.1 Windows: MiKTeX**

In order to correctly install STML<sup>A</sup>T<sub>E</sub>X on a Windows system with MiKTeX the following steps have to be performed.

1. Copy STML<sup>A</sup>T<sub>E</sub>X to any desired path, e. g. to `D:\My-LaTeX-Templates\STMLaTeX\`. It is important that you do not change the directory structure inside the package.
2. Open the MiKTeX Console GUI and add the STML<sup>A</sup>T<sub>E</sub>X package root path to the MiKTeX root directory list. Currently, **Settings** → **Directories** → **Add** (Plus symbol). Click OK.

## **2.2 Linux: TeXLive**

For an installation with TeXLive a user specific installation and an installation for all users is possible. Both possibilities are explained in the following subsections.

### **2.2.1 Installation by an User**

1. Unpack the files into the user's `texmf/` directory. It is important that you do not change the directory structure.
2. Update the filename database by executing `mktextlsr`.
3. If you use Debian, you have to update the config files by running `update-updmap`.
4. Final you have to update the font maps. This is be done by calling `updmap`.

### 2.2.2 Installation for all Users

Please note: if you want to install the STML<sup>A</sup>T<sub>E</sub>X package for all users, administrator rights are necessary.

1. Unpack the files to `/usr/local/share/texmf/`.
2. Update the filename database by executing `sudo mktexlsr`.
3. If you use Debian, you have to update the config files by `sudo update-updmap`.
4. Finally you have to update the font maps by executing `sudo updmap-sys`.

## 3 Getting started

All files below `doc/` are self-running examples.