

Developer's Guide on SJTUBeamer MIN

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1 Preface

SJTUBeamer MIN is a presentation template based on `beamer` package in L^AT_EX, to fullfill the ethusiasm of those SJTU users to present their content nicely benefiting from the technology of T_EX typesetting engine.

This is a Developer's Guide on SJTUBeamer MIN. The document is written in English because the operation in this guidance could be dangerous. Be careful when playing with those macros.

SJTUBeamer MIN — the minimal work set of SJTU VI

MIN	- <i>minimal</i> :	minimal work set of SJTU VI.
MIN	- <i>minimalism</i> :	designed in the style of minimalism.
MIN	- <i>minimum</i> :	minimum shapes to show your content.

2 Compliation

Most problems come from L^AT_EX compilation. The required packages is in the following list.

pgfplots	tikz	xcolor
pgfplotstable	sansmath	tcolorbox
ctex	biblatex	beamer

The detailed description is documented below.

2.1 MiKTeX

All required packages will be automatically installed if you are using MiKTeX[1]. And if you want to use `latexmk` command, please install Perl[2] first. And the compilation command for SJTUBeamer [MIN] is as follows:

```
latexmk -pdf main -interaction=nonstopmode
```

2.2 T_EX Live

Since some packages are not defaultly installed in the full release of T_EX Live, you have to install the packages manually.

On Ubuntu, you could install `pgf` and `xcolor` and other drawing command through the following command[4]:

```
sudo apt install texlive-pictures
```

To typeset Chinese characters, you would better use CJKutf8 package (in SJTUBeamer [MIN], set `[cjk=true]`), since it is compatible with all platforms and multiple language support. By the corresponding CJK environment to make it work and remember to move all the unicode characters in the preamble to the CJK environment[3]:

```
\begin{document}
\begin{CJK}{UTF8}{gbsn}
  \institute[]{}
  \title{}
  \subtitle{}
  \author{}
  \date{}
  % your content here ...
\end{CJK}
\end{document}
```

However, if you are stick into `ctex`, you can install through `tlmgr`. If that works, then we call it a day.

```
sudo tlmgr install ctex
```

Sometimes, you installed an old T_EX Live, and you have upgrade the `tlmgr` for the new version. And the process could be very buggy, since the following warning may be shown:

```
unexpected return value from verify_checksum: -5
```

and to upgrade the `tlmgr` is painful on Ubuntu. You should use the following add the following content to `/etc/profile/`, which will add the path when the system is booting up[5]:

```
export PATH=/usr/local/texlive/2021/bin/x86_64-linux:
/usr/local/texlive/:$PATH
```

Reboot your computer if necessary. Then the compile system will be moved to the new version of T_EX Live. Try to install the corresponding packages through the GUI interface of `tlmgr`:

```
sudo tlmgr update --self
sudo tlmgr gui
```

And if you encountered that

```
Critical Package ctex Error: CTeX fontset ‘fandol’ is
unavailable in current(ctex) mode.
```

You have to modify your compiling program from pdfL_AT_EX to X_LL_AT_EX by adding the following magic command to the first line:

```
% !TeX TS-program = xelatex
```

References

- [1] “MikT_EX.” [Online]. Available: <https://miktex.org/>
- [2] “Perl.” [Online]. Available: <https://www.perl.org/>
- [3] Log Creative, “L_AT_EX Sparkle Project Chapter 3.” [Online]. Available: <https://logcreative.github.io/LaTeXSparkle/src/art/chapter03.html>
- [4] T. Tantau, J. Wright, and V. Miletic, *The beamer class: User Guide for version 3.59.*, Jul. 2020. [Online]. Available: <https://github.com/josephwright/beamer>
- [5] TUG, “Upgrade from T_EX Live 2020 to 2021.” [Online]. Available: <http://www.tug.org/texlive/upgrade.html>