Prollip

Simplivre Write your books in A SIMPLE AND CLEAR WAY

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Preface

- simplivre is part of the minimalist class series. Its name is taken from French words "simple" and "livre" (for "book"). The entire collection includes minimart and einfart for typesetting articles, and minimbook and simplivre for typesetting books. My original intention in designing them was to write drafts and notes that look simple yet not shabby.
- simplivre has multi-language support, including Chinese (simplified and traditional), English, French, German, Italian, Japanese, Portuguese (European and Brazilian), Russian and Spanish. These languages can be switched seamlessly in a single document. Due to the usage of custom fonts, einfart requires XqIATeX or LualATeX to compile.
- This documentation is typeset using simplivre (with the option classical). You can think of it as a short introduction and demonstration.

TIP

Multi-language support, theorem-like environments, draft marks and some other features are provided by the Pro|lib toolkit. Here we only briefly discuss how to use it with this document class. For more detailed information, you can refer to the documentation of Pro|lib.

TIP

This documentation has not been fully up-to-date with the new expl3 version of this class series. Some options or commands introduced here might be obsolete.





Contents

Pre	eface											iii
		I INSTRUC	TIC	NI								
		INSTRUC	пс	ΊΝ								
Bef	ore you sta	rt										3
1	Usage and	d examples										5
		to load it										
	/2/ Exam	ple - A complete document										5
	2.1	Initialization										
	2.2	Set the language										6
	2.3	Draft marks										6
	2.4	Theorem-like environments										7
2	On the de	fault fonts										9
3	The option	ns										11
4	Instructio	ns by topic										13
		uage configuration										
		rems and how to reference them										
	/3/ Draft											
	/4/ Misce	ellaneous										
	4.1	On the line numbers										
	4.2	On the footnotes in the title										
	4.3	On the QED symbols										
5	Known is	sues										17

II DEMONSTRATION

6	Heading o	on Level 0 (chapter)	1
	/1/ Head	ing on Level 1 (section)	1
	1.1	Heading on Level 2 (subsection)	1
	/2/ Lists		2
	2.1	Example for list (itemize)	2
	2.2	Example for list (enumerate)	2
	2.3	Example for list (description)	3

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INSTRUCTION

You can add some introductory text here via \parttext\(\lambda text\).





Before you start

- In order to use the package or classes described here, you need to:
- install TeX Live or MikTeX of the latest possible version, and make sure that minimalist and projlib are correctly installed in your TeX system.
- download and install the required fonts, see the section "On the default fonts".
- be familiar with the basic usage of LATEX, and know how to compile your document with pdfLATEX, XHLATEX or LuaLATEX.



Usage and examples

/1/ How to load it

One only needs to put

\documentclass{simplivre}

as the first line to use the simplivre class.

ATTENTION

You need to use either X¬IAT_FX or LuaIAT_FX engine to compile.

/2/ Example - A complete document

Let's first look at a complete document.

```
1 \documentclass{simplivre}
2 \usepackage{ProjLib}
4 \UseLanguage{French}
6 \begin{document}
  \frontmatter
10 \begin{titlepage}
       ⟨code for titlepage⟩
12 \end{titlepage}
13
14 \tableofcontents
15
16 \mainmatter
17
```

```
18 \part{\(\rho art \title\)}
19 \parttext{\langle text after part title \rangle}
  \chapter{\chapter title\}
21
22
   \section{\langle section title \rangle}
23
24
  \dnf<\langle some\ hint\rangle>
25
26
  \begin{theorem}\label{thm:abc}
27
        Ceci est un théorème.
28
  \end{theorem}
30 Référence du théorème: \cref{thm:abc}
31
  \backmatter
33
34
35
  \end{document}
```

If you find this example a little complicated, don't worry. Let's now look at this example piece by piece.

2.1 | Initialization

```
\documentclass{simplivre}
\usepackage{ProjLib}
```

Initialization is straightforward. The first line loads the document class simplivre, and the second line loads the Projlib toolkit to obtain some additional functionalities.

2.2 | Set the language

```
\UseLanguage{French}
```

- This line indicates that French will be used in the document (by the way, if only English appears in your article, then there is no need to set the language). You can also switch the language in the same way later in the middle of the text. Supported languages include Simplified Chinese, Traditional Chinese, Japanese, English, French, German, Spanish, Portuguese, Brazilian Portuguese and Russian.
- For detailed description of this command and more related commands, please refer to the section on the multi-language support.

2.3 Draft marks

```
\dnf<\langle some\ hint\rangle>
```

When you have some places that have not yet been finished yet, you can mark them with

this command, which is especially useful during the draft stage.

2.4 | Theorem-like environments

```
\begin{theorem}\label{thm:abc}
    Ceci est un théorème.
\end{theorem}
Référence du théorème: \cref{thm:abc}
```

- Commonly used theorem-like environments have been pre-defined. Also, when referencing
- a theorem-like environment, it is recommended to use $\cref{\langle label \rangle}$ in this way, there
- is no need to explicitly write down the name of the corresponding environment every time.



On the default fonts

- By default, this document class uses Palatino Linotype as the English main font; Source Han Serif, Source Han Sans and Source Han Mono as the Chinese main font, sans serif font and typewriter font; and partially uses Neo Euler as the math font. You need to download and install these fonts by yourself. The Source Han font series can be downloaded at https://github.com/adobe-fonts (It is recommended to download the Super-OTC version, so that the download size is smaller). Neo Euler can be downloaded at https://github.com/khaledhosny/euler-otf. When the corresponding font is not installed, the font that comes with TeX Live will be used instead, and the effect may be discounted.
- In addition, Source Code Pro is used as the English sans serif font, New Computer Modern Mono as the English monospace font, as well as some symbols in the mathematical fonts of Asana Math, Tex Gyre Pagella Math, and Latin Modern Math. These fonts are already available in TeX Live or MikTeX, which means you don't need to install them yourself.
- English main font. English sans serif font. English typewriter font.
- ◢ 简体中文主要字体,简体中文无衬线字体,简体中文等宽字体
- 。 繁體中文主要字體,繁體中文無襯線字體,繁體中文等寬字體
- 日本語のメインフォント、日本語のサンセリフフォント、日本語の等幅フォント
- Math demonstration: α , β , γ , δ , 1, 2, 3, 4, a, b, c, d,

$$li(x) := \int_{2}^{\infty} \frac{1}{\log t} dt$$



The options

simplivre offers the following options:

- The language options EN / english / English, FR / french / French, etc.
 - For the option names of a specific language, please refer to ⟨language name⟩ in the next section. The first specified language will be used as the default language.
 - The language options are optional, mainly for increasing the compilation speed. Without them the result would be the same, only slower.
- draft or fast
 - The option fast enables a faster but slightly rougher style, main differences are:
 - Use simpler math font configuration;
 - * Do not use hyperref;
 - * Enable the fast mode of Projlib toolkit.

TIP

During the draft stage, it is recommended to use the fast option to speed up compilation. When in fast mode, there will be a watermark "DRAFT" to indicate that you are currently in the draft mode.

- a4paper or b5paper
 - Paper size options. The default paper size is 7in × 10in.
- palatino, times, garamond, noto, biolinum | useosf
 - Font options. As the name suggest, font with corresponding name will be loaded.
 - The useosf option is used to enable the old-style figures.
- allowbf
 - Allow boldface. When this option is enabled, the main title, the titles of all levels and the names of theorem-like environments will be bolded.
- classical
 - Classic mode. An antique-looking style will be used when this option is enabled, like in the current documentation.
- useindent
 - Use paragraph indentation instead of inter-paragraph spacing.
- 25 runin
 - Use the "runin" style for \subsubsection

- nothms
 - Pure text mode. Do not load theorem-like environments.
- nothmnum, thmnum or thmnum=\(\langle counter \rangle \)
 - Theorem-like environments will not be numbered / numbered in order 1, 2, 3... / numbered within (counter). If no option is used, they will be numbered within chapter (book) or section (article).
- regionalref, originalref
 - When referencing, whether the name of the theorem-like environment changes with the current language. The default is regionalref, i.e., the name corresponding to the current language is used; for example, when referencing a theorem-like environment in English context, the names "Theorem, Definition..." will be used no matter which language context the original environment is in. If originalref is enabled, then the name will always remain the same as the original place; for example, when referencing a theorem written in the French context, even if one is currently in the English context, it will still be displayed as "Théorème".
 - In fast mode, the option originalref will have no effect.

In addition, the commonly used oneside and twoside options are also available. Two-page layout is used by default.

Instructions by topic

/1/ Language configuration

simplivre has multi-language support, including Chinese (simplified and traditional), English, French, German, Italian, Japanese, Portuguese (European and Brazilian), Russian and Spanish. The language can be selected by the following macros:

- \UseLanguage \(\language\) rame\(\rangle\) is used to specify the language. The corresponding setting of the language will be applied after it. It can be used either in the preamble or in the main body. When no language is specified, "English" is selected by default.
- \UseOtherLanguage {\language name\range} {\language name\range}, which uses the specified language settings to typeset (content). Compared with \UseLanguage, it will not modify the line spacing, so line spacing would remain stable when CJK and Western texts are mixed.

(language name) can be (it is not case sensitive, for example, French and french have the same effect):

- Simplified Chinese: CN, Chinese, SChinese or SimplifiedChinese
- Traditional Chinese: TC, TChinese or TraditionalChinese
- English: EN or English
- French: FR or French
- German: DE, German or ngerman
- Italian: IT or Italian
- Portuguese: PT or Portuguese
 - Portuguese (Brazilian): BR or Brazilian
- Spanish: ES or Spanish Japanese: JP or Japanese
 - Russian: RU or Russian

In addition, you can also add new settings to selected language:

- \AddLanguageSetting{\(\settings \) \\}
 - Add (settings) to all supported languages.
- \AddLanguageSetting(\language name\rangle) \{\language ttings\rangle\}
 - Add (*settings*) to the selected language (*language name*).

- For example, \AddLanguageSetting(German) {\color{orange}} can make all German
- text displayed in orange (of course, one then need to add \AddLanguageSetting{\color{
- black}} in order to correct the color of the text in other languages).

/ 2 / Theorems and how to reference them

- Environments such as definition and theorem have been preset and can be used directly.
- 5 More specifically, preset environments include: assumption, axiom, conjecture, convention,
- corollary, definition, definition-proposition, definition-theorem, example, exercise,
- fact, hypothesis, lemma, notation, observation, problem, property, proposition,
- question, remark, theorem, and the corresponding unnumbered version with an asterisk
- * in the name. The titles will change with the current language. For example, theorem will
- be displayed as "Theorem" in English mode and "Théorème" in French mode.
- When referencing a theorem-like environment, it is recommended to use \cref{\(label\)}. In this way, there is no need to explicitly write down the name of the corresponding environment every time.

EXAMPLE

\begin{definition}[Strange things] \label{def: strange} ...

will produce

定義 4.1 | (Strange things) This is the definition of some strange objects. There is approximately a one-line spacing before and after the theorem environment, and there will be a symbol to mark the end of the environment.

\cref{def: strange} will be displayed as: 定義 4.1.

After using \UseLanguage{French}, a theorem will be displayed as:

Тне́окѐме 4.2 | (Inutile) Un théorème en français.

By default, when referenced, the name of the theorem matches the current context. For example, the definition above will be displayed in French in the current French context: la définition 4.1 et le théorème 4.2. If you want the name of the theorem to always match the language of the context in which the theorem is located, you can add originalref to the global options.

TIP

Please refer to the documentation of the package create-theorem to see how to declare new theorem-like environments.

/ 3 / Draft mark

4 You can use \dnf to mark the unfinished part. For example:

- \dnf or \dnf<...>. The effect is: To be finished #1 or To be finished #2:
- The prompt text changes according to the current language. For example, it will be dis-
- played as Pas encore fini #3 in French mode.

/4/ Miscellaneous

4.1 On the line numbers

- Line numbers can be turned on and off at any time. \linenumbers is used to enable the
- line numbers, and \nolinenumbers is used to disable them. For the sake of beauty, the
- title, table of contents, index and some other elements are not numbered.

4.2 On the footnotes in the title

- In \section or \subsection, if you wish to add footnotes, you can only:
- first write \mbox{\protect\footnotemark},
- then add \footnotetext{...} afterwards.
- This is a disadvantage brought about by the underline decoration of the title.

4.3 On the QED symbols

Since the font in the theorem-like environments is the same as that of the main text, in order to indicate where the environments end, a hollow QED symbol _ is placed at the end of the theorem-like environments. However, if your theorem ends with an equation or list (itemize, enumerate, description, etc.), this symbol cannot be automatically placed in the correct position. In this case, you need to manually add a \qedhere at the end of your equation or the last entry of your list to make the QED symbol appear at the end of the line.



Known issues

- The font settings are still not perfect.
- Since many features are based on the Projlib toolkit, minimalist (and hence minimart, einfart and minimbook, simplivre) inherits all its problems. For details, please refer to the "Known Issues" section of the Projlib documentation.
- The error handling mechanism is incomplete: there is no corresponding error prompt when some problems occur.
- There are still many things that can be optimized in the code.



PART II

DEMONSTRATION



Heading on Level 0 (chapter)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Heading on Level 1 (section)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1.1 | Heading on Level 2 (subsection)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1.1.1 Heading on Level 3 (subsubsection)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all

- letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.
- Heading on Level 4 (Paragraph) Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

/2/ Lists

2.1 | Example for list (itemize)

- First item in a list
 - Second item in a list
- Third item in a list
 - Fourth item in a list
 - Fifth item in a list

2.1.1 Example for list (4*itemize)

- First item in a list
 - First item in a list
 - * First item in a list
 - · First item in a list
 - · Second item in a list
 - * Second item in a list
 - Second item in a list
 - Second item in a list

2.2 | Example for list (enumerate)

- 1) First item in a list
- 2) Second item in a list
 - 3) Third item in a list
 - 4) Fourth item in a list
- 5) Fifth item in a list

2.2.1 Example for list (4*enumerate)

- 1) First item in a list
 - *i*) First item in a list
 - a) First item in a list
 - A. First item in a list
 - B. Second item in a list
 - b) Second item in a list

ii) Second item in a list							
2) Second item in a list							
2.3 Example for list (description)							
First item in a list							
Second item in a list							
Third item in a list							
Fourth item in a list							
<u>Fifth</u> item in a list							
2.3.1 Example for list (4*description)							
First item in a list							
First item in a list							
First item in a list							
First item in a list							
Second item in a list							
Second item in a list							
Second item in a list							
Second item in a list							

```
Below is a list of outstanding items, followed by the corresponding page numbers.  2 \ \#1 \ \langle 14 \rangle \\ 3 \ \#2 \ \langle 14 \rangle : \dots \\ 4 \ \#3 \ \langle 14 \rangle
```