
minimalist, write your articles or books in a simple and clear way

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Abstract

minimalist is a series of styles and classes for you to typeset your articles or books in a simple and clear manner. The original intention in designing this series was to write drafts and notes that look simple yet not shabby. With the help of the `ProjLib` toolkit, also developed by the author, the classes provided here have multi-language support, preset theorem-like environments with clever reference support, and many other functionalities. Notably, using these classes, one can organize the author information in the \mathcal{AMS} fashion, makes it easy to switch to journal classes later for publication.

Finally, this documentation is typeset using the `minimart` class (with the option `classical`). You can think of it as a short introduction and demonstration.

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Before you start

- 1 In order to use the package or classes described here, you need to:
 - 2 • install TeX Live or MikTeX of the latest possible version, and make sure that `minimalist`
3 and `projlib` are correctly installed in your TeX system.
 - 4 • download and install the required fonts if needed.
 - 5 • be familiar with the basic usage of L^AT_EX, and know how to compile your document with
6 pdfL^AT_EX, X_YL^AT_EX or LuaL^AT_EX.

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Introduction

7 `minimalist` is a series of styles and classes for you to typeset your articles or books in a simple
8 and clear manner. The original intention in designing this series was to write drafts and
9 notes that look simple yet not shabby.

10 The entire collection includes `minimalist.sty`, which is the main style shared by all of
11 the following classes; `minimart.cls` for typesetting articles and `minimbook.cls` for type-
12 setting books. They compile with any major TeX engine, with native support to English,
13 French, German, Italian, Portuguese (European and Brazilian) and Spanish typesetting via
14 `\UseLanguage` (see the instruction below for detail).

15 You can also found `einfart` and `simplivre` on CTAN. They are the enhanced version of `minimart`
16 and `minimbook` with unicode support. With this, they can access to more beautiful fonts,
17 and additionally have native support for Chinese, Japanese and Russian typesetting. On the
18 other hand, they need to be compiled with X_YL^AT_EX or LuaL^AT_EX (not pdfL^AT_EX).

19 With the help of the [Projlib](#) toolkit, also developed by the author, the classes provided
20 here have multi-language support, preset theorem-like environments with clever reference
21 support, and many other functionalities such as draft marks, enhanced author information
22 block, mathematical symbols and shortcuts, etc. Notably, using these classes, one can orga-
23 nize the author information in the \mathcal{AMS} fashion, makes it easy to switch to journal classes
24 later for publication. For more detailed information, you can refer to the documentation of
25 [Projlib](#) by running `texdoc projlib` in the command line.

2.1 | How to load it

- 1 You can directly use `minimart` or `minimbook` as your document class. In this way, you can
2 directly begin writing your document, without having to worry about the configurations.

```
\documentclass{minimart} or \documentclass{minimbook}
```

TIP

You may wish to use `einfart` or `simplivre` instead, which should produce better result. All the examples later using `minimart` or `minimbook` can be adopted to `einfart` and `simplivre` respectively, without further modification.

- 3 You can also use the default classes `article` or `book`, and load the `minimalist` package. This way,
4 only the basic styles are set, and you can thus use your preferred fonts and page layout. All
5 the features mentioned in this article are provided.

```
\documentclass{article} or \documentclass{book}  
\usepackage{minimalist}
```

2.2 | Example - minimart

- 6 Let's first look at a complete example of `minimart` (the same works for `einfart`).

```
1 \documentclass{minimart}  
2 \usepackage{ProjLib}  
3  
4 \UseLanguage{French}  
5  
6 \begin{document}  
7  
8 \title{\langle title \rangle}  
9 \author{\langle author \rangle}  
10 \date{\TheDate{2022-04-01}}  
11  
12 \maketitle  
13  
14 \begin{abstract}  
15   Ceci est un résumé. \DNF<\langle some hint \rangle>  
16 \end{abstract}  
17 \begin{keyword}  
18   AAA, BBB, CCC, DDD, EEE  
19 \end{keyword}  
20  
21 \section{Un théorème}  
22  
23 \begin{theorem}\label{thm:abc}  
24   Ceci est un théorème.  
25 \end{theorem}
```

```
26 Référence du théorème: \cref{thm:abc}
27
28 \end{document}
```

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

2.2.1 Initialization

```
\documentclass{minimart}
\usepackage{ProjLib}
```

3 Initialization is straightforward. The first line loads the document class `minimart`, and the
4 second line loads the `ProjLib` toolkit to obtain some additional functionalities.

2.2.2 Set the language

```
\UseLanguage{French}
```

5 This line indicates that French will be used in the document (by the way, if only English
6 appears in your article, then there is no need to set the language). You can also switch the
7 language in the same way later in the middle of the text. Supported languages include
8 Simplified Chinese, Traditional Chinese, Japanese, English, French, German, Spanish, Por-
9 tuguese, Brazilian Portuguese and Russian¹.

10 For detailed description of this command and more related commands, please refer to the
11 section on the multi-language support.

2.2.3 Title, author information, abstract and keywords

```
\title{\langle title \rangle}
\author{\langle author \rangle}
\date{\TheDate{2022-04-01}}
\maketitle

\begin{abstract}
  \langle abstract \rangle
\end{abstract}
\begin{keyword}
  \langle keywords \rangle
\end{keyword}
```

12 This part begins with the title and author information block. The example shows the basic
13 usage, but in fact, you can also write:

```
\author{\langle author 1 \rangle}
\address{\langle address 1 \rangle}
\email{\langle email 1 \rangle}
\author{\langle author 2 \rangle}
```

¹The language Simplified Chinese, Traditional Chinese, Japanese and Russian requires Unicode support, thus the classes `einart` or `simlivre`.

```
\address{\langle address 2 \rangle}
\email{\langle email 2 \rangle}
...
```

1 In addition, you may also write in the \mathcal{AMS} fashion, i.e.:

```
\title{\langle title \rangle}
\author{\langle author 1 \rangle}
\address{\langle address 1 \rangle}
\email{\langle email 1 \rangle}
\author{\langle author 2 \rangle}
\address{\langle address 2 \rangle}
\email{\langle email 2 \rangle}
\date{\TheDate{2022-04-01}}
\subjclass{*****}
\keywords{\langle keywords \rangle}

\begin{abstract}
  \langle abstract \rangle
\end{abstract}

\maketitle
```

2.2.4 Draft marks

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

2 When you have some places that have not yet been finished yet, you can mark them with
3 this command, which is especially useful during the draft stage.

2.2.5 Theorem-like environments

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

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

TIP

If you wish to switch to the standard class later, just replace the first two lines with:

```
\documentclass{article}
\usepackage[a4paper,margin=1in]{geometry}
\usepackage[hidelinks]{hyperref}
\usepackage[palatino,amsfashion]{ProjLib}
```

or to use the \mathcal{AMS} class:

```
\documentclass{amsart}
```

```
\usepackage[a4paper,margin=1in]{geometry}
\usepackage[hidelinks]{hyperref}
\usepackage[palatino]{ProjLib}
```

2.3 | Example - minimbook

- 1 Now let's look at an example of minimbook (the same works for simplivre).

```
1 \documentclass{minimbook}
2 \usepackage{ProjLib}
3
4 \UseLanguage{French}
5
6 \begin{document}
7
8 \frontmatter
9
10 \begin{titlepage}
11     <code for titlepage>
12 \end{titlepage}
13
14 \tableofcontents
15
16 \mainmatter
17
18 \part{<part title>}
19 \parttext{<text after part title>}
20
21 \chapter{<chapter title>}
22
23 \section{<section title>}
24
25 ...
26
27 \backmatter
28
29 ...
30
31 \end{document}
```

- 2 There is no much differences with minimart, only that the title and author information should
- 3 be typeset within the titlepage environment. Currently no default titlepage style is given,
- 4 since the design of the title page is a highly personalized thing, and it is difficult to achieve
- 5 a result that satisfies everyone.

- 6 In the next section, we will go through the options available.

The options

1 minimalist offers the following options:

2 The language options `EN` / `english` / `English`, `FR` / `french` / `French`, etc.

- 3 – For the option names of a specific language, please refer to $\langle\textit{language name}\rangle$ in the next
- 4 section. The first specified language will be used as the default language.
- 5 – The language options are optional, mainly for increasing the compilation speed. With-
- 6 out them the result would be the same, only slower.

7 `draft` or `fast`

- 8 – The option `fast` enables a faster but slightly rougher style, main differences are:
 - 9 ○ Use simpler math font configuration;
 - 10 ○ Do not use `hyperref`;
 - 11 ○ 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.

12 `use boldface`

- 13 – Allow boldface. When this option is enabled, the main title, the titles of all levels and
- 14 the names of theorem-like environments will be bolded.

15 `classical`

- 16 – Classic mode. An antique-looking style will be used when this option is enabled, like
- 17 in the current documentation.

18 `runin`

- 19 – Use the “runin” style for `\subsubsection`

20 `nothms`

- 21 – Pure text mode. Do not load theorem-like environments.

22 `nothmnum`, `thmnum` or `thmnum=\langle\textit{counter}\rangle`

- 23 – Theorem-like environments will not be numbered / numbered in order 1, 2, 3... /
- 24 numbered within $\langle\textit{counter}\rangle$. If no option is used, they will be numbered within chapter
- 25 (book) or section (article).

26 `regionalref`, `originalref`

- 27 – When referencing, whether the name of the theorem-like environment changes with
- 28 the current language. The default is `regionalref`, *i.e.*, the name corresponding to the
- 29 current language is used; for example, when referencing a theorem-like environment
- 30 in English context, the names “Theorem, Definition...” will be used no matter which
- 31 language context the original environment is in. If `originalref` is enabled, then the
- 32 name will always remain the same as the original place; for example, when referencing
- 33 a theorem written in the French context, even if one is currently in the English context,
- 34 it will still be displayed as “Théorème”.
- 35 – In fast mode, the option `originalref` will have no effect.

36 Additionally, `minimart` and `minimbook` offers the following options:

37 • `a4paper` or `b5paper`

- 38 – Optional paper size. The default paper size is 7in × 10in.

39 • `palatino`, `times`, `garamond`, `noto`, `biolinum` | `useosf`

- 1 – Font options. As the name suggest, font with corresponding name will be loaded.
- 2 – The `useosf` option is used to enable the old-style figures.
- 3 • `useindent`
- 4 – Use paragraph indentation instead of inter-paragraph spacing.

/ 4 /

Instructions by topic

4.1 | Language configuration

5 minimart has multi-language support, including English, French, German, Italian, Portuguese
6 (European and Brazilian) and Spanish. The language can be selected by the following macros:

- 7 • `\UseLanguage{⟨language name⟩}` is used to specify the language. The corresponding set-
8 ting of the language will be applied after it. It can be used either in the preamble or in
9 the main body. When no language is specified, “English” is selected by default.
- 10 • `\UseOtherLanguage{⟨language name⟩}{⟨content⟩}`, which uses the specified language set-
11 tings to typeset `⟨content⟩`. Compared with `\UseLanguage`, it will not modify the line spac-
12 ing, so line spacing would remain stable when CJK and Western texts are mixed.

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

- 15 • Simplified Chinese: CN, Chinese, SChinese or SimplifiedChinese
- 16 • Traditional Chinese: TC, TChinese or TraditionalChinese
- 17 • English: EN or English
- 18 • French: FR or French
- 19 • German: DE, German or ngerman
- 20 • Italian: IT or Italian
- 21 • Portuguese: PT or Portuguese
- 22 • Portuguese (Brazilian): BR or Brazilian
- 23 • Spanish: ES or Spanish
- 24 • Japanese: JP or Japanese
- 25 • Russian: RU or Russian

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

- 27 • `\AddLanguageSetting{⟨settings⟩}`
28 – Add `⟨settings⟩` to all supported languages.
- 29 • `\AddLanguageSetting(⟨language name⟩){⟨settings⟩}`
30 – Add `⟨settings⟩` to the selected language `⟨language name⟩`.

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

4.2 | Theorems and how to reference them

34 Environments such as `definition` and `theorem` have been preset and can be used directly.

35 More specifically, preset environments include: `assumption`, `axiom`, `conjecture`, `convention`,
36 `corollary`, `definition`, `definition-proposition`, `definition-theorem`, `example`, `exercise`,
37 `fact`, `hypothesis`, `lemma`, `notation`, `observation`, `problem`, `property`, `proposition`, `question`,
38 `remark`, `theorem`, and the corresponding unnumbered version with an asterisk `*` in the name.

39 The titles will change with the current language. For example, `theorem` will be displayed as
40 “Theorem” in English mode and “Théorème” in French mode.

- 1 When referencing a theorem-like environment, it is recommended to use `\cref{<label>}`. In
2 this way, there is no need to explicitly write down the name of the corresponding environ-
3 ment every time.

EXAMPLE

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

will produce

DEFINITION 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: DEFINITION 4.1.

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

THÉORÈME 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.

4.3 | Draft mark

- 4 You can use `\DNF` to mark the unfinished part. For example:

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

4.4 | Title, abstract and keywords

- 8 `minimart` has both the features of standard classes and that of the \mathcal{AMS} classes.

- 9 Therefore, the title part can either be written in the usual way, in accordance with the stan-
10 dard class article:

```
\title{<title>}  
\author{<author>\thanks{<text>}}  
\date{<date>}  
\maketitle  
\begin{abstract}  
  <abstract>  
\end{abstract}  
\begin{keyword}  
  <keywords>  
\end{keyword}
```

1 or written in the way of \mathcal{AMS} classes:

```
\title{\langle title \rangle}
\author{\langle author \rangle}
\thanks{\langle text \rangle}
\address{\langle address \rangle}
\email{\langle email \rangle}
\date{\langle date \rangle}
\keywords{\langle keywords \rangle}
\subclass{\langle subclass \rangle}
\begin{abstract}
  \langle abstract \rangle
\end{abstract}
\maketitle
```

2 The author information can contain multiple groups, written as:

```
\author{\langle author 1 \rangle}
\address{\langle address 1 \rangle}
\email{\langle email 1 \rangle}
\author{\langle author 2 \rangle}
\address{\langle address 2 \rangle}
\email{\langle email 2 \rangle}
...
```

3 Among them, the mutual order of `\address`, `\curraddr`, `\email` is not important.

4.5 | Miscellaneous

4.5.1 On the line numbers

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

4.5.2 On the footnotes in the title

7 In `\section` or `\subsection`, if you wish to add footnotes, you can only:

- 8 • first write `\mbox{\protect\footnotemark}`,
- 9 • then add `\footnotetext{...}` afterwards.

10 This is a disadvantage brought about by the underline decoration of the title.

/ 5 /

Known issues

- 11 • The font settings are still not perfect.
- 12 • Since many features are based on the **ProjLib** toolkit, minimalist (and hence minimart, ein-
13 fart and minimbook, simplivre) inherits all its problems. For details, please refer to the
14 “Known Issues” section of the **ProjLib** documentation.
- 15 • The error handling mechanism is incomplete: there is no corresponding error prompt
16 when some problems occur.
- 17 • There are still many things that can be optimized in the code.

1 Below is a list of outstanding items, followed by the corresponding page numbers.

2 #1 ⟨9⟩

3 #2 ⟨9⟩: ...

4 #3 ⟨9⟩