

Illustrated by Ethan Lu

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Beautybook

AN INTRODUCTION TO BEAUTYBOOK
TEMPLATE

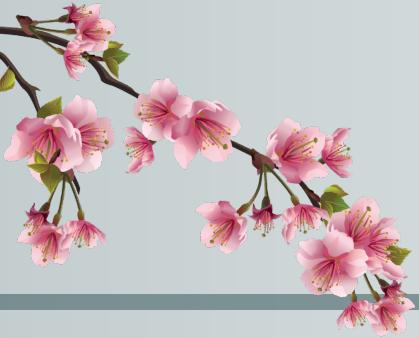
SIXTH EDITION



PREFACE

An introduction to Beautybook template.

– Ethan Lu
2025-04-01



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PART I



THE TEMPLATE USAGE INTRODUCTION OF BEAUTYBOOK

Here is the introduction area of each part, where you can write a concise overview of the part, of course, if there is nothing to say, you can leave it blank.



A SHORT INTRODUCTION OF BEAUTY-BOOK

Part I

Sec 1.1 Introduction

The Beauty \LaTeX collection is a series of templates authored by a humble, unknown individual. In fact, there are only two series, one is the custom book template **fancybook** , which is dedicated to the fresh and elegant style, the other is my flagship product- **beautybook** ! Why did I choose such an unusual name? My answer is, originally I wanted to name it elegantboook, but there is already the famous elegantbook template. Inspired by the old poem "There is a jade-like beauty waiting for you in the book", the template is named "beautybook", which means a beautiful woman in your arms and the fragrance of a book overflowing! Therefore, this is the origin of the name **beautybook** !

I am committed to creating a series of beautiful, elegant, simple template to facilitate the use of users and myself. Version changes frequently, please pay attention to version information. Before starting to use templates, it is recommended to choose the latest official version! The latest test version will usually be released in the QQ Group, you can download it and try it yourself!

This article covers some of the setup and basic usage of this template. If you have any other questions, suggestions or comments, feel free to submit them to me on GitHub [issues](#) or [163 mail](#) or QQ mail [QQ mail](#).

The Project Addresses are the following.

- Gitee repository: <https://gitee.com/ethanlu1/beautybook> (Main Channel)
- GitHub repository: <https://github.com/BeautyLaTeX/latex-template>,
- Texpage : <https://www.texpage.com/template/8dc933fc-6579-44c9-b660-ea58409d193b>
- Download Release: [Official release](#),
- User QQ Group: 809237593. (!If you are not in China, please e-mail me at [outlook-email](#).)

This work is released under the \LaTeX Project Public License, v1.3c or later.

Sec 1.2 Installation and Maintenance of Template

There are two ways you can use this template. The first method is trivial that just download the zip of template from above channel, and then unzip and compile the main file in the archive (i.e. a file with a name like "beautybook-xx. tex"). The second way is uploading the zip of template to [overleaf](#) to comply.

Note that if you choose the second way, you must write `math-font=plain` in the preamble of the main file!

It is worth noting that when you download the template from CTAN, then the English version of it does not use any third-party fonts, so that one can be compiled using `pdflatex`. This is an exception to the rule under which all other files must be compiled using the `Xe\LaTeX` engine.

1.2.1 Local Installation

To install locally, follow above steps to download the latest version from GitHub, CTAN or the QQ group.

The following is an example of a minimal work:

```
1 \documentclass[lang=en,12pt]{beautybook}
2 %
3 %----- %
4 %----- %
5 %----- %
6 %----- %
7 %----- %
8 %----- %
9 %----- %
10 %----- %
11 %----- %
12 %----- %
13 %----- %
14 %----- %
15 %----- %
16 %----- %
17 %----- %
18 %----- %
19 %----- %
20 %----- %
21 %----- %
22 %----- %
23 %----- %
24 %----- %
25 %----- %
26 %----- %
27 %----- %
28 %----- %
29 %----- %
30 %----- %
31 %----- %
32 %----- %
33 %----- %
```

```

34 % -----
35 \definecolor{bg}{HTML}{e0e0e0}
36 \definecolor{fg}{HTML}{2c4f54}
37 \colorlet{outermarginbgcolor}{bg} % The foreground color of the
38   sidebar
39 \colorlet{outermarginfgcolor}{fg} % The background color of the
40   sidebar
41 % When sidebar=off, you must comment the following two lines!
42 % % set the contents of the outer margin on even and odd pages for
43   \scrheadings, plain and scth
44 \oddoutermargin{\sffamily Vanishing theorems} % Odd pages
45 \evenoutermargin{\sffamily\@title} % Even pages
46 % -----
47 %                               The Sidebar Theme Chosen
48 %
49 %
50 %
51 %
52 %
53 %
54 %
55 %
56 %
57 %
58 \chapimage{\beautybook@chapterimagename}
59 \partimage{\beautybook@partimagename}
60 \makeatother
61 %
62 %
63 %

```

The Sidebar Theme Chosen

The images used in the title

```

64 % -----
65 % ----- %
66 % ----- ] The Color Chosen for The Magic Box
67 % ----- %
68 % ----- %
69 % ----- ]
70 % ----- %
71 % ----- ] The Color Chosen for The Magic Box
72 % ----- %
73 % ----- %
74 % ----- ]
75 \colorlet{framegolden}{fg} % The line color of the magic box
76 \colorlet{framegray}{bg!50} % The background color of the magic box
77 % ----- ]
78 \frontmatter
79 \pagenumbering{Roman}

80 { % Preface
81 \thispagestyle{empty}
82 % \addcontentsline{toc}{chapter}{Preface}
83 \chapter*{Preface}
84 An introduction to Beautybook template.

85 \hfill
86 \begin{tabular}{lr}
87     &-- Ethan Lu\\
88     &2025-03-02
89 \end{tabular}
90 \clearpage
91 %%%%%%%%%%%%%%
92 \thispagestyle{empty}
93 \tableofcontents\let\cleardoublepage\clearpage

94 \mainmatter
95 \pagenumbering{arabic}

96 \partabstract{\hspace*{2em} Here is the introduction area of each
97     part, where you can write a concise overview of the part, of
98     course, if there is nothing to say, you can leave it blank.}
99 \part{The template usage introduction of \textbf{beautybook} }

100 \chapter{A short introduction of \textbf{beautybook} }

101 \section{Introduction}
102 % your main contents here!

```

```

95 \printindex\thispagestyle{empty}
96 \bottomimage{inner_pics/coverimage.jpg}
97 \ISBNcode{\EANisbn[ISBN=978-80-7340-097-2]} %
98 \summary{Summary.}
99 \makebottomcover
100 \end{document}
```

1.2.2 Release installation and updates

The test environment for this template is

1. Win11 24H2 + T_EX Live 2025;

For the installation of T_EXLive/MacT_EX , please refer to articles online, which is omitted here.

After installing T_EX Live, it is recommended to upgrade all macro packages after installation, upgrade methods: use "cmd" or "terminal" to run tlmgr update --all, if tlmgr needs to be updated, use cmd to run tlmgr update --self, if there is a break in the update process, please use tlmgr update -- self --all -- reinstall, that is

```

1 | tlmgr update --self
2 | tlmgr update --all
3 | tlmgr update --self --all --reinstall-forcibly-removed
```

Please refer to [How do I update my T_EX distribution?](#) for more information.



THE SETTING OF BEAUTYBOOK TEMPLATE

Part I

The English version of this template is based on the basic “book” class, and the Chinese version is based on the “ctexbook” class, so the option of book or ctexbook is also valid for this template. The default encoding is UTF-8, and it is recommended to compile with TeX Live.

Sec 2.1 Language Mode

This template includes two basic locales: Chinese and English. Changing the locales alters the headings (including figures and tables) of the chart title, the article formatting (such as table of contents and references), and the language used for theorem contexts (such as Theorem, Lemma, etc.). You can switch between these language modes using the following instructions in the top of the preamble:

```

1 | \documentclass[lang=cn,zihao=-4,a4paper,fontset=windows]{beautybook}
  |   ↳ % chines
2 | \documentclass[lang=en,12pt]{beautybook} % english

```

In addition to the two language settings that come with the template, if you need to use another language, you can do so by modifying the .cls file as follows

1. Change the name of the part environment Part\ \thepart to (translation of part in your language)\ \thepa
2. Theorem environment guide words in preamble, such as Theorem.

Sec 2.2 Theme Color

The colors of this template can be configured according to personal preferences in the following way :

```

1 | \definecolor{bg}{HTML}{e0e0e0} % Overall style background color %
  |   ↳ i.e. theme light color
2 | \definecolor{fg}{HTML}{455a64} % Overall style foreground color %
  |   ↳ i.e. theme dark color
3 | %% The colors below are in the stys/bottompage.sty file
4 | \definecolor{coverbgcolor}{HTML}{f9b868} % Cover and bottom page
  |   ↳ background color
5 | \definecolor{coverfgcolor}{HTML}{503D4B} % foreground color on
  |   ↳ the front and back covers
6 | \definecolor{coverbar}{HTML}{BF8E6F} % cover bar color
7 | \definecolor{bottomcolor}{HTML}{B3686A} % The theme color of
  |   ↳ bottom page
8 | %%%%%%%%%%%%%%
9 | \colorlet{framegolden}{fg} % Antique
  |   ↳ box's line color

```

```
10 | \colorlet{framegray}{Dilu!5}
    \color{box's background color}
```

% *Antique*

In the preamble of the main file, certain theorem environments' colors can be set. This will be further explained in the upcoming section on mathematical environments.

Here it is recommended to use the color configuration of the cncolours macro package developed by Lin Lianzhi, and you can select the appropriate color for comparison.

Sec 2.3 Choice of Cover

2.3.1 How to choose your favorite cover?

This template has multiple sets of covers that can be used at will, and the use of them is as follows:

1. Chinese classic cover (Chinese default) –corresponding macro package cover–choose=cn ,
2. Springer Classic Cover 1 (English default) –corresponding to the macro package cover–choose=en ,
3. Springer Classic Cover 2 (image background) –corresponding to macro package cover–choose=enfig ,
4. Springer Classic cover 3 (Geometric style) –corresponding to the macro package cover–choose=birkar .

Note that the information corresponding to the cover is not the same, look at the above example, just follow the requirements.

Table 2.1: cover element information

Information	Commands	Information	Commands	Information	Commands
Title	\ title	subtitle	\ subtitle	author	\ author
Publisher	\ pressname	Version	\ edition	cover image	\ coverimage
Logo	\ presslogo				

2.3.2 Logo

You can search and obtain the publisher's logo yourself. To avoid copyright infringement, please ensure to choose a proper and lawful image when replacing the current one.

2.3.3 Custom Cover

Moreover, in case you opt for a personalized cover, say an A4 PDF file created through Adobe Illustrator or any other software, comment out the \makecover command, and subsequently include the custom cover using the pdffpages macro package. Likewise, if you utilize the titlepage environment.

Sec 2.4 Title Style

This template is fully customized for section headings, if this is not to your liking, you can comment them out to restore the default style.

Sec 2.5 Introduction to the Mathematical Environments

Our template includes four distinct theorem environments. These consist of the default theorem style provided by “amsthm” in simple mode, as well as a custom style provided by “thmtools.” Additionally, we offer a color emphasis box style, an exquisite box style that I developed, and an ancient style box provided by Mr. Wuyue, which can also be used as a theorem box.

2.5.1 Usage of theorem environments

Here is the effect of the theorem environment provided by amsthm.

2.5.1.1 amsthm

Remark. *This is an amsthm-based annotation environment*

2.5.1.2 thmtools

Proof (description of proof). Proof environment

Solution (description of solution). Solution environment

2.5.1.3 Color emphasis box style

Definition 2.5.1 (name of the definition). *The first defines the environment*

Theorem 2.5.1 (name of the thm). *The first theorem environment*

Corollary 2.1 (name of the corollary). *The first inference environment*

Proposition 2.5.1 (name of the prop). *The first propositional environment*

Example 2.1 (name of the example). *The first example problem environment*

Lemma 2.5.1 (name of the lem). *The first lemma environment*

Sec 2.6 Two exquisite theorem boxes crafted by the author!

Definition 2.6.1. (Name)

Here are the guidelines for using these two boxes.

- If the theorem name and label are both empty, you can write it like this :

```

1 | \begin{definition}
2 |     Define the environment content
3 | \end{definition}
```

- If you don't have a label but have a name, use it as

```

1 | \begin{definition}[] [Name]
2 |     Define the environment content
3 | \end{definition}
```

- If you have a tag, then whether or not it has a name, use it as

```

1 | \begin{definition}[] [Yes, fill in, no blank] [Tag]
2 |     Define the environment content
3 | \end{definition}
```

- If you want to change some setting options of the box, such as bordering, etc., use it as

```

1 | \begin{definition}[tcolorbox options] [If so, write the name,
2 |   ↳ if not, delete it along with the outside brackets.] [tag
2 |   ↳ (Here is where the label is written, if there is no
2 |   ↳ label should be deleted together with the outside
2 |   ↳ brackets.)]
3 |     Define the environment content
3 | \end{definition}
```

Theorem 2.6.1.

The usage is the same as above, refer to the tag 2.6.1 below or you can use Definition 2.6.1.

Lemma 2.6.1.

The usage is the same as above, refer to the tag 2.6.1 below or you can use Definition 2.6.1.

Corollary 2.6.1.

The usage is the same as above, refer to the tag 2.6.1 below or you can use Definition 2.6.1.

Example 2.6.1.

The usage is the same as above, refer to the tag **2.6.1** below or you can use **Definition 2.6.1**.

**Ancient style box****2.6.1** Theorem counter adjustment

If you want to modify the theorem environment to count by section, you can modify the chapter in the counter option `counter /.` code, the available options are chapter (default) and section , subsection , etc.

2.6.2 How to define a new theorem environment?

There are four ways in which users can define their own theorem environments. Among them amsthm and thmtools can be learned through their macro package documentations. The latter two theorems are defined in the following way.

For example, in preamble of the main file, you can write it as

```

1   % This is the first one.
2   \mynewtheorem{
3       defi={\textbf{Definition}} [section]{interior style={left
4           color=ReD!8,right color=ReD!5!CyaN!50}, borderline
5           west={1.5mm}{0mm}{ReD}}, % It is a example of the first
6           then you can mimic it to build the theorem setting
7           you need.
8   }

9   % This is the second one.
10  <environment name>={
11      counter=tcb<theorem counter>,
12      the counter=\thesection.\arabic{tcb<theorem counter>},
13      autoref name=\bfseries <environment name>,
14      style={
15          arc=3pt,breakable,enhanced,interior style={top color=<your
16          color>!12 ,middle color=<your color>!9, bottom
17          color=<your color>!6},boxrule=0pt,top=8mm,
18          fuzzy shadow={-0.6mm}{0.6mm}{0mm}{0.3mm}{white!50!gray},
19          fuzzy shadow={0.6mm}{-0.6mm}{0mm}{0.3mm}{fill=white!40!gray},
20          opacityframe=0, opacityback=0.98,
21          fontupper=\itshape, step={tcb<theorem counter>},
22          before pre=\smallskip, after app=\smallskip,
```

```

17   overlay unbroken=\my@theorem@overlay@unbroken{<environment
18     ↳ name>} \thetcb<theorem counter>}{<your color>},
19   overlay first=\my@theorem@overlay@first{<environment name> \
20     ↳ \thetcb<theorem counter>}{<your color>},
21   overlay last=\my@theorem@overlay@last{<your color>},
22   }
23   },
24   <environment name>=
25     counter=tcb<theorem counter>,
26     the counter=\thesection.\arabic{tcb<theorem counter>},
27     autoref name=\bfseries <environment name>,
28     style=
29       arc=0mm, breakable, enhanced, interior style={top color=<your
30         ↳ color>!12 , middle color=<your color>!9, bottom
31         ↳ color=<your
32           ↳ color>!6}, arc=3pt, boxrule=0pt, top=7mm, bottom=5mm,
33         fuzzy shadow={-0.6mm} {0.6mm} {0mm} {0.3mm} {white!50!gray},
34         fuzzy shadow={0.6mm} {-0.6mm} {0mm} {0.3mm} {fill=white!40!gray},
35         opacityframe=0, opacityback=0.98,
36         fontupper=\normalsize, step={tcb<theorem counter>},
37         before pre=\smallskip, after app=\smallskip,
38         overlay unbroken=\my@lemma@overlay@unbroken{<environment
39           ↳ name>} \thetcb<theorem counter>}{<your color>},
40         overlay first=\my@lemma@overlay@first{<environment name> \
41           ↳ \thetcb<theorem counter>}{<your color>},
42         overlay last=\my@lemma@overlay@last{<your color>},
43       }
44     },
45   }
46 }
```

Remark. Change the following parts :

<environment name>	→ your new defined theorem name
<theorem counter >	→ your new defined theorem counter
<your color>	→ your new defined theorem color

Sec 2.7 list environment

This template is customizable with the help of enumitem, see the enumitem macro package documentation. Here are two examples.

- | | |
|---|--|
| <ul style="list-style-type: none"> ○ first item of nesti; ○ second item of nesti; <ul style="list-style-type: none"> ● first item of nestii; ● second item of nestii; <ul style="list-style-type: none"> ● first item of nestiii; ● second item of nestiii. | <ul style="list-style-type: none"> 1) first item of nesti; 2) second item of nesti; <ul style="list-style-type: none"> (a). first item of nestii; (b). second item of nestii; <ul style="list-style-type: none"> I. first item of nestiii; II. second item of nestiii. |
|---|--|

2.8.1 print reference

ref.bib is a file stored in the reference and needs to be placed in the working folder. The example of reference is this [1].

2.8.2 modify reference format

In addition, this template calls the Biblatex macro package and provides Biber engine to compile references. Of course, you can also directly delete the Biblatex macro package in cls file (the last few lines of cls) to use Bibtex.

For bib items, you can pick them up in Google Scholar, Mendeley, Endnote and add them to ref.bib. When quoting in the text, just quote their bib key.

The default reference style used by the template is “numeric”.

```
1 \usepackage[  
2 backend=biber, % It can be changed to bibtex.  
3 style=numeric, % It can be changed to others, cf the documentation of  
4   ↪ biblatex.  
5 sorting=nty  
6 ]{biblatex}  
7 \addbibresource{ref.bib}
```


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