1 Introduction 介绍

The package originates from the first edition of my book «IATEX—Einführung in das Textsatzsystem» in about 2006. For the IATEX examples and tutorials given there, I wanted to have accentuated and colored boxes to display source code and compiled text in combination. Since, in my opinion, this type of boxes is also quite useful to highlight definitions and theorems, I applied them for my lecture notes in mathematics as well. With this package, you are invited to apply these boxes for similar projects.

该包起源于我在 2006 年左右的《LATeX – Einführung in das Textsatzsystem》一书的第一版。在书中给出的 LATeX 示例和教程中,我希望能将突出和着色的盒子组合起来显示源代码和编译后的文本。我认为这种类型的盒子也非常适用于突出显示定义和定理,因此我在我的数学讲义中也使用了它们。通过这个包,您可以将这些盒子应用于类似的项目。

The breaking news for version 2.00 was the support for breakable boxes. This feature allows new applications of the package without affecting the core package too much if you do not need boxes to break automatically. With version 2.20, the often requested "side by side" mode for listings has been added. With version 3.00, boxed titles are introduced together with improved customization options for overlays, underlays, finishes, and own code extensions.

版本 2.00 的重要更新是添加了盒子的 breakable 支持 (自动换页)。2.20 版, 加上了经常被要求加上的, 排版代码清单的 "side by side" 模式。在版本 3.00 中, 盒标题会和改进了的, 用于定制overlays(覆盖层)、underlays(衬垫)、finishes 和自行扩展的选项一起介绍。

Since the first public release in 2011, I received a lot of feedback from all over the world. I want to thank all who wrote me for supporting this package by sending bug reports and ideas for new or better features.

自 2011 年首次公开发布以来,我收到了来自世界各地的许多反馈。我想感谢所有反馈给我的人,感谢他们通过发送错误报告、和关于新的或更好的功能的想法来支持这个宏包。

1.1 Installation 安装

Typically, tcolorbox will be installed as part of a major LATEX distribution and there is nothing special to do for a user.

通常,tcolorbox 作为 LATEX 发行版的一部分进行安装,用户无需做额外操作。

If you intend to make a localinstallation by hand, see the README file of the tcolorbox package for some hints. The short story is: you have to install not only tcolorbox.sty, but also all *.code.tex files in the local texmf tree.

如果您打算手动进行本地安装,请参阅tcolorbox 包的 README 文件以获取一些提示。简而言之,您不仅必须安装 tcolorbox.sty,还必须将所有本地 texmf 树中的*.code.tex 文件一并安装。

1.2 Loading the Package 加载包

The base package tcolorbox loads the packages pgf , verbatim etoolbox , and environ . tcolorbox itself is loaded in the usual manner in the preamble:

基础的tcolorbox 宏包加载了 pgf、verbatim、etoolbox 和 environ 这几个宏包。tcolorbox 本身可以通过标准的方式在导言区加载:

\usepackage{tcolorbox}

```
\begin{dispListing}
\usepackage{tcolorbox}
\end{dispListing}
上面的样式是这样实现的 (有额外的设置)!
—virhuiai
```

The package takes option keys in the key-value syntax. For example:

该包的选项采用键-值语法。例如:

```
\usepackage[listings]{tcolorbox}
```

Alternatively, you may use these keys later in the preamble with \tcbuselibrary (see there). 你也可以在导言区中通过使用 \tcbuselibrary 来设置这些键值。

1.3 Libraries 库

The base package tcolorbox is extendable by program libraries. This is done by using option keys while loading the package or inside the preamble by applying the following macro with the same set of keys.

基础宏包tcolorbox 可以通过程序库进行扩展。这可以通过在加载包时使用选项键或在导言区应用以下具有相同键集的宏来实现。

```
\begin{docCommand}{tcbuselibrary}{\marg{key list}}
...
\end{docCommand}
docCommand 环境生成下面的效果哦!
—virhuiai
```

$\texttt{tcbuselibrary}\{\langle key\ list \rangle\}$

加载由\(key list\)给出的库。

Loads the libraries given by the $\langle key \ list \rangle$.

\tcbuselibrary{listings,theorems}

The following keys are used inside \tcbuselibrary respectively \usepackage without the key tree path /tcb/library/.

以下项(不含 /tcb/library/)可在\tcbuselibrary 或\usepackage 中使用。

```
\tcbmakedocSubKey{docTcbKey}{tcb}%tcolorbox.doc.s_main.sty
\begin{docTcbKey}[library]{skins}{}{mylib{skins}}
...
\end{docTcbKey}
docTcbKey

—virhuiai
```

/tcb/library/skins

(skins)

Loads the package tikz and provides additional styles (skins) for the appearance of the colored boxes; see Section ?? from page ??.

加载tikz 宏包, 并提供额外的样式(皮肤)用于彩色色盒子的外观; 请参见第??节, 第??页。

/tcb/library/vignette

g vignette)

Provides code for more ornamental; see Section ?? from page ??. 提供更多装饰性代码; 请参见第??页的 ??小节。

/tcb/library/raster

(raster)

Provides additional macros and options for typesetting multiple boxes arranged in a kind of raster; see Section ?? from page ??.

提供额外的宏和选项排版多个盒子,以一种栅格1的形式排列。请参见第??页的??小节。

/tcb/library/listings

(listings)

Loads the package listings and provides additional macros for typesetting listings which are described in page ??.

载入listings 包,并提供额外的用于代码排版的宏,详见 ??页。

/tcb/library/listingsutf8

(| listingsutf8)

Loads the packages listings and listingsutf8 for UTF-8 support. This is a variant of the library listings and is described in page ??.

载人 listings 和用于支持 UTF-8 的 listingsutf8 包。这是 🔋 listings 的一个变体。

/tcb/library/minted

(minted)

Loads the package minted to typeset listings with the Pygments tool, also see ?? on page ??. 加载用 Pygments 排版代码的minted 包。另见?? on page ??。

/tcb/library/theorems

(theorems)

Provides additional macros for typesetting theorems which are described in page ??. 为排版定理提供额外的宏, 详见 ??页。

/tcb/library/breakable

(breakable)

Provides support for automatic box breaking from one page to another; see ?? on page ??. 为盒子提供从一页自动断行到下一页的支持; 参见?? on page ??。

/tcb/library/magazine

(magazine)

Provides support for storing broken box parts to be used later or in interchanged order, ?? on page ??.

提供支持存储分页盒子的各个部分, 以便后续重用或调整顺序, 详见?? on page ??。

/tcb/library/poster

(poster)

Provides support for creating posters, ?? on page ??.

为创作海报提供支持,?? on page??。

/tcb/library/fitting

(fitting)

Provides support for font size adaption of the box content to the box dimensions; see Section ?? from page ??.

提供对盒子内的字体大小适应盒子尺寸的支持。详见??页的??小节。

/tcb/library/hooks

(hooks)

Extends several option keys to "hookable" keys; see Section ?? from page ??. 将几个选项键扩展为 "hookable" 键。详见 ??页的 ??小节。

/tcb/library/xparse



Provides document command production with xparse for tcolorbox; see Section ?? from page ??.

为 tcolorbox 提供来自 xparse 的文档命令。详见 ??页的 ??小节。

¹栅格系统英文为"grid systems",也有人翻译为"网格系统",运用固定的格子设计版面布局,其风格工整简洁,在二战后大受欢迎,已成为今日出版物设计的主流风格之一。

/tcb/library/external

(external)

Provides externalization support for stand-alone document snippets, see ?? on page ??. 为独立的文档片段提供外部化支持。见?? on page ??。

/tcb/library/documentation

(documentation)

Provides additional macros for typesetting LATEX documentations which are described in Section ?? from page ??.

为排版 IATeX 教程提供额外的宏。详见??页的??小节。

/tcb/library/many

(style, no value)

Loads the libraries g skins, g breakable, g raster, g hooks, g theorems, g fitting, and g xparse. Use this shortcut, if you want to use all features of tcolorbox with exception of typesetting listings and using the specialized g documentation library.
加载 g skins、g breakable、g raster、g hooks、g theorems、g fitting 和 g xparse.
如果你除了排版代码和使用专门的 g documentation 包之外,想使用 tcolorbox 的所有功

/tcb/library/most

能,请使用这个快捷选项。

(style, no value)

Loads all libraries except minted and documentation. Use this shortcut, if you want to use all features of tcolorbox with exception of using the minted package and using the specialized documentation library.

加载除 minted 和 documentation 之外的所有包。如果你想使用 tcolorbox 的所有功能,除了使用 minted 和 documentation 包之外,请使用这个快捷选项。

/tcb/library/all

(style, no value)

Loads all libraries. Use this shortcut only, if you intend to use the documentation library. 加载所有的包。只有当你打算使用 documentation 包时使用这个快捷选项。

