

The `clrstrip` package

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Contents

1	Introduction	1
2	Examples	1
3	Documentation	2
3.1	Macros and Environments	2
3.2	Options	3
3.3	Dependencies	3
4	Implementation	3
4.1	Initializing Variables	3
4.2	Internal Macros	5
4.3	Initializing Keys	6
4.4	User Level Macros	6

1 Introduction

This package provides the `colorstrip` environment, that places its contents into a full page width colour strip. It requires the macro `\color` to be defined and working, but doesn't load a package doing so on its own. So for everything to work out properly, you'd have to load a package like `color` or `xcolor` in your preamble, too.

It is meant to be lightweight and fast. So while packages like `tcolorbox` provide very pretty output, this package has a simplistic look achieved with under 100 lines of code.

It is written as a docstrip file: executing `latex clrstrip.dtx` generates the `clrstrip.sty` file and typesets this documentation; execute `tex clrstrip.dtx` to only generate `clrstrip.sty`.

2 Examples

The following is an example showing the results of

```
\begin{colorstrip}{red!5}  
  \blindduck  
\end{colorstrip}
```

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with `xcolor` and `duckuments` loaded:

There once was a very smart but sadly blind duck. When it was still a small duckling it was renowned for its good vision. But sadly as the duck grew older it caught a sickness which caused its eyesight to worsen. It became so bad, that the duck couldn't read the notes it once took containing much of inline math. Only displayed equations remained legible. That annoyed the smart duck, as it wasn't able to do its research any longer. It called for its underduckling and said: "Go, find me the best eye ducktor there is. He shall heal me from my disease!"

The title of this documentation was typeset with

```
\vspace*{-6cm}%
\begin{colorstrip}{blue!15}
[%
    inner bot=1cm, outer bot=\bigskipamount, width=\paperwidth,
    inner top=6cm, left=-\dimexpr\marginparwidth+\marginparsep\relax
]
\centering
\LARGE The \pkg{clrstrip} package\[\bigskipamount]
\large
Jonathan P. Spratte\footnotemark\[\medskipamount]
Released \cename{clrstrip@date}\endcename
\end{colorstrip}
\footnotetext{E-mail: jspratte@yahoo.de}
```

And the code boxes in this section (except this one) are surrounded by

```
\begin{colorstrip}{gray!15}[inner bot=0pt, inner top=2ex]
\begin{verbatim}
\end{verbatim}
\end{colorstrip}
```

3 Documentation

3.1 Macros and Environments

<u><code>\colorstripSet</code></u>	<code>\colorstripSet{<key=value>}</code>
------------------------------------	--

This macro can be used to set the options listed in [subsection 3.2](#) outside of `colorstrip` (the package makes no global assignments).

<u><code>colorstrip</code></u>	<code>\begin{colorstrip}[<color model>]{<color>}[<key=value>]</code>
--------------------------------	--

This environment typesets its contents inside a `\vbox` which gets surrounded by a strip of the specified `<color>` which reaches across the full page width. `<color model>` and `<color>` are the arguments passed to `\color`. In the second optional argument `<key=value>` you can specify any of the options listed in [subsection 3.2](#). After this environment starts a new paragraph with the document specific `\parindent`. As always you can suppress this indent with `\noindent`. The result is not page breakable.

3.2 Options

The package doesn't support load time options. The following options can be either set with `\colorstripSet` or inside of `colorstrip`.

`inner=<skip>`

Sets both `inner top` and `inner bot` to `<skip>`. Initially this is set to `\medskipamount`.

`inner top=<skip>`

Specifies additional padding between the upper border of the strip and its contents.

`inner bot=<skip>`

Specifies additional padding between the lower border of the strip and its contents.

`outer=<skip>`

Sets both `outer top` and `outer bot` to `<skip>`. Initially this is set to `\medskipamount`.

`outer top=<skip>`

Specifies the vertical skip above the colour strip.

`outer bot=<skip>`

Specifies the vertical skip below the colour strip.

`width=<width>`

Sets the `\hsize` of the `\vbox` for the contents, resulting in the specified `<width>`. If `<width>` is `0pt` (which is the initial value) the width is the current `\linewidth`.

`left=<skip>`

Specifies a horizontal skip from the left border of the text field for the contents. If `<skip>` is `1sp` (which is the initial value) the `\vbox` is horizontally centred (not its contents).

`afterheading`

Ignores every value given to it. If used the indentation of the first line in a `colorstrip` will be prevented using the L^AT_EX macros `\@afterindentfalse` and `\@afterheading`. This is the package default since version 2018/09/25.

`noindent`

Ignores every value given to it. If used the indentation of the first line in a `colorstrip` will be prevented using the T_EX primitives `\noindent` and `\ignorespaces`. This was the package default before version 2018/09/25.

3.3 Dependencies

`clrstrip` depends on the `keyval` package. In addition it needs a package defining `\color` such as `color` or `xcolor` but doesn't load one on its own.

4 Implementation

¹ `<*pkg>`

4.1 Initializing Variables

`\clrstrip@box` Stores the contents of `colorstrip`.

² `\newsavebox\clrstrip@box`

(End definition for `\clrstrip@box`. This variable is documented on page ??.)

`\clrstrip@innerT` Stores the upper inner padding. Gets reused to store the overall height of the colour strip locally.

```

3 \newlength\clrstrip@innerT
4 \clrstrip@innerT\medskipamount

```

(End definition for `\clrstrip@innerT`. This variable is documented on page ??.)

`\clrstrip@innerB` Stores the lower inner padding. Gets reused to store the overall depth of the colour strip locally.

```

5 \newlength\clrstrip@innerB
6 \clrstrip@innerB\clrstrip@innerT

```

(End definition for `\clrstrip@innerB`. This variable is documented on page ??.)

`\clrstrip@outerT` Stores the upper outer padding.

```

7 \newlength\clrstrip@outerT
8 \clrstrip@outerT\clrstrip@innerT

```

(End definition for `\clrstrip@outerT`. This variable is documented on page ??.)

`\clrstrip@outerB` Stores the lower outer padding.

```

9 \newlength\clrstrip@outerB
10 \clrstrip@outerB\clrstrip@innerT

```

(End definition for `\clrstrip@outerB`. This variable is documented on page ??.)

`\clrstrip@width` Stores the lower inner padding. Gets reused to store the overall depth of the colour strip locally.

```

11 \newlength\clrstrip@width

```

(End definition for `\clrstrip@width`. This variable is documented on page ??.)

`\clrstrip@left` Stores the left skip from the left border of the text field. Might be reused to store the necessary left skip for centred alignment locally.

```

12 \newlength\clrstrip@left
13 \clrstrip@left1sp

```

(End definition for `\clrstrip@left`. This variable is documented on page ??.)

`\clrstrip@oarg` Stores the first optional argument to `colorstrip` for later use.

```

14 \newcommand*\clrstrip@oarg{}

```

(End definition for `\clrstrip@oarg`. This variable is documented on page ??.)

`\clrstrip@marg` Stores the mandatory argument to `colorstrip` for later use.

```

15 \newcommand*\clrstrip@marg{}

```

(End definition for `\clrstrip@marg`. This variable is documented on page ??.)

`\clrstrip@preventIndent` Stores whether `\@afterheading` should be used to prevent the indentation of the first line (if true) or `\noindent` (if false)

```

16 \newif\ifclrstrip@afterheading
17 \clrstrip@afterheadingtrue

```

(End definition for `\clrstrip@preventIndent`. This variable is documented on page ??.)

4.2 Internal Macros

`\clrstrip@key` Shortcut to define new keys with `keyval`.

```
18 \newcommand*\clrstrip@key{\define@key{clrstrip}}
```

(End definition for \clrstrip@key. This function is documented on page ??.)

`\clrstrip@strip@a` Draws the colour strip using `\vrule`. `\clrstrip@strip@a` is used to expand the optional argument for `\clrstrip@strip@b` and should be called with the expanded mandatory argument as its argument. `\clrstrip@strip@b` then sets the colour and draws the `\vrule`.

```
19 \newcommand*\clrstrip@strip@a[1]
20 {%
21   \expandafter\clrstrip@strip@b\expandafter{\clrstrip@oarg}{#1}%
22 }
23 \newcommand*\clrstrip@strip@b[2]
24 {%
25   \begingroup
26   \if\relax\detokenize{#1}\relax
27     \color{#2}%
28   \else
29     \color[#1]{#2}%
30   \fi
31   \advance\clrstrip@innerT\ht\clrstrip@box
32   \advance\clrstrip@innerB\dp\clrstrip@box
33   \rlap
34   {%
35     \hskip-\paperwidth
36     \vrule
37     width 2\paperwidth
38     height \clrstrip@innerT
39     depth \clrstrip@innerB
40   }%
41   \endgroup
42 }
```

(End definition for \clrstrip@strip@a and \clrstrip@strip@b. These functions are documented on page ??.)

`\clrstrip@start` Used to grab the second optional argument to `colorstrip`. Sets the specified keys and starts the grabbing of the contents inside the `\vbox`.

```
43 \newcommand\clrstrip@start[1][ ]
44 {%
45   \colorstripSet{#1}%
46   \ifdim\clrstrip@width=\z@
47     \clrstrip@width\linewidth
48   \fi
49   \setbox\clrstrip@box\vbox\bgroup
50   \hsize\clrstrip@width
51   \clrstrip@preventIndent
52 }
```

(End definition for \clrstrip@start. This function is documented on page ??.)

`\clrstrip@preventIndent` Used to prevent the indentation of the first line in a colorstrip.

```

53 \newcommand*\clrstrip@preventIndent
54 {%
55     \ifclrstrip@afterheading
56         \expandafter\@firstoftwo
57     \else
58         \expandafter\@secondoftwo
59     \fi
60     {\@afterindentfalse\@afterheading}
61     {\noindent\ignorespaces}%
62 }

```

(End definition for `\clrstrip@preventIndent`. This function is documented on page ??.)

4.3 Initializing Keys

```

63 \clrstrip@key{inner}{\clrstrip@innerT#1\relax\clrstrip@innerB#1\relax}
64 \clrstrip@key{outer}{\clrstrip@outerT#1\relax\clrstrip@outerB#1\relax}
65 \clrstrip@key{inner top}{\clrstrip@innerT#1\relax}
66 \clrstrip@key{inner bot}{\clrstrip@innerB#1\relax}
67 \clrstrip@key{outer top}{\clrstrip@outerB#1\relax}
68 \clrstrip@key{outer bot}{\clrstrip@outerB#1\relax}
69 \clrstrip@key{width}{\clrstrip@width#1\relax}
70 \clrstrip@key{left}{\clrstrip@left#1\relax}
71 \clrstrip@key{afterheading}[]{\clrstrip@afterheadingtrue}
72 \clrstrip@key{noindent}[]{\clrstrip@afterheadingfalse}

```

4.4 User Level Macros

`\colorstripSet` Shortcut for `keyval`'s `\setkeys`.

```

73 \newcommand*\colorstripSet{\setkeys{clrstrip}}

```

(End definition for `\colorstripSet`. This function is documented on page 2.)

`colorstrip`

```

74 \newenvironment{colorstrip}[2] []
75 {%

```

Save the arguments for the usage in `\end{colorstrip}`.

```

76     \def\clrstrip@oarg{#1}%
77     \def\clrstrip@marg{#2}%

```

Start grabbing the contents

```

78     \clrstrip@start
79 }
80 {%
81     \egroup
82     \par
83     \vskip\clrstrip@outerT
84     \noindent
85     \expandafter\clrstrip@strip@a\expandafter{\clrstrip@marg}%
86     \ifdim\clrstrip@left=1sp
87         \advance\clrstrip@width-\linewidth
88         \clrstrip@left-.5\clrstrip@width
89     \fi

```

```

90     \rlap{\hskip\clrstrip@left\usebox\clrstrip@box}%
91     \par
92     \vskip\clrstrip@outerB
93 }

(End definition for colorstrip. This function is documented on page 2.)

94 \endinput
95 </pkg>

```