

The clrstrip package

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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 less than 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`.

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2 Examples

The following is an example showing the results of

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

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 \csname clrstrip@date\endcsname
\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

`\colorstripSet` `\colorstripSet{<key=value>}`

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

colorstrip

`\begin{colorstrip}[\langle color model \rangle]{\langle color \rangle}[\langle key=value \rangle]`

This environment typesets its contents inside a `\vbox` which gets surrounded by a strip of the specified `\langle color \rangle` which reaches across the full page width. `\langle color model \rangle` and `\langle color \rangle` are the arguments passed to `\color`. In the second optional argument `\langle key=value \rangle` you can specify any of the options listed in [subsection 3.2](#). If you leave a blank line after this environment the next paragraph will be indented, else this indentation will be suppressed (this has been changed starting with version 2019-11-03, in earlier versions you'd have to use `\noindent` to suppress the paragraph indentation). 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 `\langle skip \rangle`. 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 `\langle skip \rangle`. 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 `\hspace` (and also `\linewidth` inside of the environment) of the `\vbox` for the contents, resulting in the specified `\langle width \rangle`. If `\langle width \rangle` is 0pt (which is the initial value) the width is the current surrounding `\linewidth`.

`left=<skip>`

Specifies a horizontal skip from the left border of the text field for the contents. If `\langle skip \rangle` 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 width the text block inside of the colour strip should be wide. Might be reused to calculate the skip to centre the text block 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@arg` Stores the first optional and the mandatory argument to `colorstrip` for later use.

¹⁴ `\newcommand*\clrstrip@arg{}`

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

4.2 Internal Macros

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

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

(End definition for \clrstrip@key. This function is 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`.

```
16 \newcommand\clrstrip@start[1] []
17 {%
18   \colorstripSet{#1}%
19   \ifdim\clrstrip@width=\z@
20     \clrstrip@width\linewidth
21   \fi
22   \setbox\clrstrip@box\vbox\bgroup
23     \hsize\clrstrip@width
24     \linewidth\hsize
25     \color@setgroup
26     \clrstrip@preventIndent
27 }
```

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

`\clrstrip@afterheading` `\clrstrip@noindent` These two macros are the two options to suppress the indentation in a `colorstrip`.

```
28 \newcommand*\clrstrip@afterheading{\@afterindentfalse\@afterheading}
29 \newcommand*\clrstrip@noindent{\noindent\ignorespaces}
```

(End definition for \clrstrip@afterheading and \clrstrip@noindent. These functions are documented on page ??.)

`\clrstrip@preventIndent` Used to prevent the indentation of the first line in a `colorstrip`. It will be let to one of `\clrstrip@afterheading` or `\clrstrip@noindent`.

```
30 \newcommand*\clrstrip@preventIndent{}
31 \let\clrstrip@preventIndent\clrstrip@afterheading
```

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

4.3 Initializing Keys

```
32 \clrstrip@key{inner}{\clrstrip@innerT#1\relax\clrstrip@innerB#1\relax}
33 \clrstrip@key{outer}{\clrstrip@outerT#1\relax\clrstrip@outerB#1\relax}
34 \clrstrip@key{inner top}{\clrstrip@innerT#1\relax}
35 \clrstrip@key{inner bot}{\clrstrip@innerB#1\relax}
36 \clrstrip@key{outer top}{\clrstrip@outerB#1\relax}
37 \clrstrip@key{outer bot}{\clrstrip@outerB#1\relax}
38 \clrstrip@key{width}{\clrstrip@width#1\relax}
39 \clrstrip@key{left}{\clrstrip@left#1\relax}
40 \clrstrip@key{afterheading} []{\let\clrstrip@preventIndent\clrstrip@afterheading}
41 \clrstrip@key{noindent} []{\let\clrstrip@preventIndent\clrstrip@noindent}
```

4.4 User Level Macros

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

```
42 \newcommand*\colorstripSet{\setkeys{clrstrip}}
```

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

`colorstrip`

```
43 \newenvironment{colorstrip}[2] []
44   {%
Save the arguments for the usage in \end{colorstrip}. If the first argument is empty
\color won't get an optional argument, else store both the optional and the mandatory
one in \clrstrip@arg.
45   \def\clrstrip@arg{#1}%
46   \ifx\clrstrip@arg\empty
47     \def\clrstrip@arg{#{2}}%
48   \else
49     \def\clrstrip@arg{[#{1}]#{2}}%
50   \fi
Start grabbing the contents.
51   \clrstrip@start
52   }
53   {%
End grabbing the contents.
54   \color@endgroup
55   \egroup
Start a new paragraph (if none was started yet) and add the upper outer padding.
56   \par
57   \vskip\clrstrip@outerT
58   \noindent
Draw the colour strip using a coloured \vrule.
59   \begingroup
60     \expandafter\color\clrstrip@arg
61     \advance\clrstrip@innerT\ht\clrstrip@box
62     \advance\clrstrip@innerB\dp\clrstrip@box
63     \rlap
64     {%
65       \hskip-\paperwidth
66       \vrule
67       width 2\paperwidth
68       height \clrstrip@innerT
69       depth \clrstrip@innerB
70     }%
71   \endgroup
Output the contents of the colour strip.
72   \ifdim\clrstrip@left=1sp
73     \advance\clrstrip@width-\linewidth
74     \clrstrip@left-.5\clrstrip@width
75   \fi
76   \rlap{\hskip\clrstrip@left\copy\clrstrip@box}%
Start a new paragraph and add the lower outer padding. Also use LATEX's \@endpetrue
mechanism to let the user control whether the text after this environment will be in-
dented or not.
77   \par
```

```
78     \vskip\clrstrip@outerB
79     \@endpetrue
80 }
```

(End definition for colorstrip. This function is documented on page 3.)

```
81 \endinput
```

```
82 </pkg>
```