

# The contour package<sup>\*</sup>

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## Abstract

This package is based on an idea of Richard Pfeiffer (`richard.pfeiffer@t-online.de`). It generates a colored contour around a given text in order to enable printing text over a background without the need of a color box around the text.

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## 1 Introduction

Sometimes it is necessary to print text over a background that is not pure white e. g. in gnuplot plots. It is not always wished to plot the text in a rectangular box since this can cover important information or loog poor. This package provides a solution to cover less space with the text and ensure readable text in the same time.

The used technique is quite simple. In a circle with the radius 0.03em around the original text position the same text is printed evenly distributed 16 times.

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<sup>\*</sup>This file has version 1.02 last revised 1999/12/13, documentation dated 1999/12/13.

## 2 User interface

To use this package place

```
\usepackage{contour}
```

in the preamble of your document. No options are necessary.

The package provides the command

```
\contour{<color>}{<text>}
```

which produces the text <text> with a colored border around.

## 3 Example

The command

```
\colorbox{black}{This text is not visible \contour{yellow}{but this is}}
```

produces:



Another example shows figure 1.

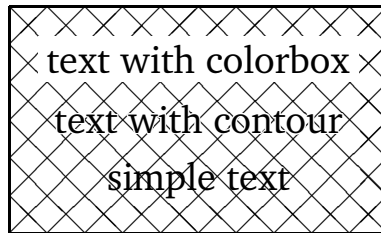


Figure 1: Comparison of the commands `\colorbox{white}{<text>}` and `\contour{<text>}`

In figure 2 you can see the looking of the output depending on the number of copies.

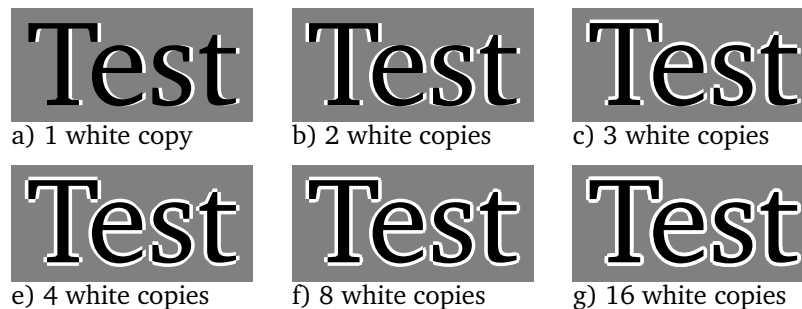


Figure 2: Looking of the contour with different numbers of copies

## 4 The implementation

Heading of the package:

```

1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{contour}
3      [\filedate\space version \fileversion]
4 \message{Package 'contour', Version \fileversion\space of \filedate.}

```

This package requires the color package from the graphics bundle:

```
5 \RequirePackage{color}
```

Set text to a specified relative position without using space:

```

6 \newcommand{\ol@lupos}[3]{\makebox[0pt][l]{\hspace*{#1}\raisebox{#2}[0pt]{#3}}}
7 %old version (did not work with characters with depth (e.g. g, y, q))
8 %\newcommand{\ol@lupos}[3]{\makebox(0,0)[lb]{\hspace*{#1}\vspace*{#2}#3}}
9 %old version (did not work within \makebox macro:
10 %\newcommand{\ol@lupos}[3]{\hbox to Opt{\hskip#1\vbox to Opt{\vskip#2\vbox
11 %      to Opt{\vss\noindent#3}\vss}\hss}}

```

Rename \color command to ol@color. This is down in order to prevent the background text color from being changed:

```

12 \def\FAus{\let\ol@color=\color%
13      \def\color##1##2{##2}}%

```

Restor color command:

```
14 \def\FEin{\let\color=\ol@color}
```

Define new offset length:

```
15 \newlength{\ol@d}
```

\contour The new macro for producing text with a white contour

```
16 \newcommand{\contour}[2]{%
```

Specifying the offset length relative to the text size

```
17 \setlength{\ol@d}{0.03em}%
```

Put the text many times around the current text position.

0°, 90°, 180° and 270°:

```

18 \ol@lupos{1\ol@d}{0\ol@d}{\color{#1}\FAus#2\FEin}%
19 \ol@lupos{-1\ol@d}{0\ol@d}{\color{#1}\FAus#2\FEin}%
20 \ol@lupos{0\ol@d}{1\ol@d}{\color{#1}\FAus#2\FEin}%
21 \ol@lupos{0\ol@d}{-1\ol@d}{\color{#1}\FAus#2\FEin}%

```

45°, 135°, 225° and 315°:

```

22 \ol@lupos{0.707\ol@d}{0.707\ol@d}{\color{#1}\FAus#2\FEin}%
23 \ol@lupos{0.707\ol@d}{-0.707\ol@d}{\color{#1}\FAus#2\FEin}%
24 \ol@lupos{0.707\ol@d}{0.707\ol@d}{\color{#1}\FAus#2\FEin}%
25 \ol@lupos{0.707\ol@d}{-0.707\ol@d}{\color{#1}\FAus#2\FEin}%

```

22.5°, 67.5°, 112.5°, 157.5° ...:

```

26 \ol@lupos{0.383\ol@d}{0.924\ol@d}{\color{#1}\FAus#2\FEin}%
27 \ol@lupos{0.383\ol@d}{-0.924\ol@d}{\color{#1}\FAus#2\FEin}%
28 \ol@lupos{-0.383\ol@d}{0.924\ol@d}{\color{#1}\FAus#2\FEin}%
29 \ol@lupos{-0.383\ol@d}{-0.924\ol@d}{\color{#1}\FAus#2\FEin}%
30 \ol@lupos{0.924\ol@d}{0.383\ol@d}{\color{#1}\FAus#2\FEin}%
31 \ol@lupos{0.924\ol@d}{-0.383\ol@d}{\color{#1}\FAus#2\FEin}%
32 \ol@lupos{-0.924\ol@d}{0.383\ol@d}{\color{#1}\FAus#2\FEin}%
33 \ol@lupos{-0.924\ol@d}{-0.383\ol@d}{\color{#1}\FAus#2\FEin}%
34 %
35 #2%
36 }

```

The end of the style file  
37 \endinput