

# The mdframed package<sup>1</sup>

auto-split frame environment

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The standard methods for framing text (`\fbox` or `\fcolorbox`) require you to handle page breaks by hand, meaning that you have to split the `\fbox` into two. The present package defines the environment `mdframed` which automatically deals with page-breaks in framed text.

By defining new environments the user may choose between several individual designs.

## Contents

<b>1. Motivation</b>	<b>1</b>	<b>6. Errors, Warnings and Messages</b>	<b>10</b>
<b>2. Syntax</b>	<b>2</b>	<b>7. Known Problems</b>	<b>11</b>
<b>3. Commands</b>	<b>2</b>	<b>8. ToDo</b>	<b>11</b>
<b>4. Options</b>	<b>3</b>	<b>9. Previous versions</b>	<b>11</b>
4.1. Global Options . . . . .	4	<b>10. Acknowledgements</b>	<b>12</b>
4.2. Global and Local Options	4	<b>A. More information</b>	<b>13</b>
4.3. Hidden Lines . . . . .	6	A.1. How does <code>mdframed</code> work?	13
4.4. Frametitle . . . . .	6	A.2. The Frametitle commands .	13
<b>5. Examples</b>	<b>7</b>	A.3. Modify the frame . . . .	15
5.1. Working in twocolumn mode . . . . .	9	A.4. <code>mdframed</code> in combination with <code>multicol</code> . . .	16
5.2. Framed listings . . . .	10	A.5. Revision history . . . .	17

## 1. Motivation

Many users wish to (further) emphasize lemmata, definitions, proofs, etc. The package `mdframed` allows you to create environments with breakable frames. I think an example is the best way to demonstrate its properties.

**Theorem 1.1 (Pythagorean theorem)** *In any right triangle, the area of the square whose side is the hypotenuse is equal to the sum of the areas of the squares*

<sup>1</sup>Extending the package `framed.sty`.

<sup>2</sup>With thanks to Heiko Oberdiek, Rolf Niepraschk, Martin Scharrer and Herbert Voss. Sorry for bad English.

*whose sides are the two legs.*

$$a^2 + b^2 = c^2$$

The frame was defined with the following settings.

```
\newmdtheoremenv[outerlinewidth=2,leftmargin=40,
  rightmargin=40,backgroundcolor=yellow,%
  outerlinecolor=blue,innertopmargin=0pt,%
  splittopskip=\topskip,skipbelow=\baselineskip,%
  skipabove=\baselineskip,ntheorem]{theorem}%
  {Theorem}[section]
\begin{theorem}[Pythagorean theorem]
...
\end{theorem}
```

## 2. Syntax

The package itself loads the packages kvoptions, etoolbox, calc and color. By setting the correct options mdframed will load xcolor, tikz or pstricks.

Load the package as usual:

```
\usepackage[<GLOBAL OPTIONS>]{mdframed}
```

The package defines only one environment with the following syntax:

```
\begin{mdframed}[<LOCAL OPTIONS>]
  <CONTENT>
\end{mdframed}
```

With version 0.8 you have two commands to create environments with mdframed.

**autodetecting floats** With version 0.9 I added a detection of float or minipage environments. If you use mdframed in such an environment mdframed will use the option **nobreak** automatically.

**twoside-mode** With version 0.9d I added the detection of the twoside. When you are using mdframed inside twoside mode you have to set the option **innermargin** and **outermargin** (see section 4.2.1).

## 3. Commands

The following commands should countenance your by the handling with mdframed

**\newmdenv** The command has the following syntax:

```
\newmdenv[<MDFRAMED OPTIONS>]{Name of the environment}
```

In this way you can simply use:

```

\newmdenv[ linecolor=red , frametitle=Infobox ]{ infobox }
...
\begin{infobox}[ backgroundcolor=yellow ]
foo   foo   foo   foo   foo   foo
\end{infobox}

```

**\renewmdenv** By using this command you can redefine environments which are created by `\newmdenv`.

**\newmdtheoremenv** Since the package is often used to highlight theorem environments, I have created a command<sup>3</sup> to simplify this process. The command has the following syntax:

```

\newmdtheoremenv[ <mdframed-options> ]{ <envname> }%
[ <numberedlike> ]{ <caption> }[ <within> ]

```

The last four arguments are equivalent to the command `\newtheorem`. Only the first optional argument is able to pass `mdframed-options`. A simple example is:

```

\theoremstyle{<some style>}
\newmdtheoremenv[ linecolor=blue ]{ lemma }%
{Lemma}{ section }
...
\begin{lemma}[Some title]
foo   foo   foo   foo   foo   foo
\end{lemma}

```

So far there is no `\renewmdtheoremenv`!

**\mdfsetup** To set the options globally you can use the optional argument of `\usepackage` or you can use the command `\mdfsetup` which is not limited to the preamble.

**\mdfdefinestyle** `\mdfdefinestyle` allow the user to define different styles and use as an option of `mdframed` via **style**. The option **style** is explained in section 4.4.1. Here a small example:

```

\mdfdefinestyle{mystyle}{ leftmargin=0pt ,%
                           linecolor=blue }
...
\begin{mdframed}[ style=mystyle ]
foo
\end{mdframed}

```

## 4. Options

The package allows the following global and local options:

<sup>3</sup>Thanks to Martin Scharer and Enrico Gregorio:  
[Own command to create new environment](#)

## 4.1. Global Options

The following options are only global options.

- xcolor** By setting this key, the package `xcolor` will be loaded with the given value(s). default=none  
Without any value `mdframed` loads the package `color` without any options.
- framemethod** With this key you can change the way frames are drawn. You can decide default=default  
whether the frame is drawn with
1.  $\LaTeX$ -commands `\hrule`, `\vrule`, `\rule`,
  2. `TikZ` (the package `TikZ` will be loaded) or
  3. `PSTricks` (the package `pstricks` will be loaded).

The option **framemethod** requires a string. Allowed combination are listed in the following table.

Table 1: Allowed keys for **framemethod**

Method	Allowed keys
$\LaTeX$ -commands	default, tex, latex, none, 0
<code>TikZ</code>	tikz, 1
<code>PSTricks</code>	pstricks, ps, postscript, 2

**FYI** It is independently whether the method is written with no, one or more capital letter.

**Note** The manipulation of the frames depends on the option **framemethod**. For further information see below.

## 4.2. Global and Local Options

The options listed below can be set globally or locally.

### 4.2.1. Options with lengths

In figure (1) you can see the adjustable lengths which will be described below. All lengths accept two kinds of input. The first one is a length (e.g. 2pt) and the second one is a number (e.g. 2) which will be multiplied by **defaultunit**.

- defaultunit** see the sentence above. default=pt

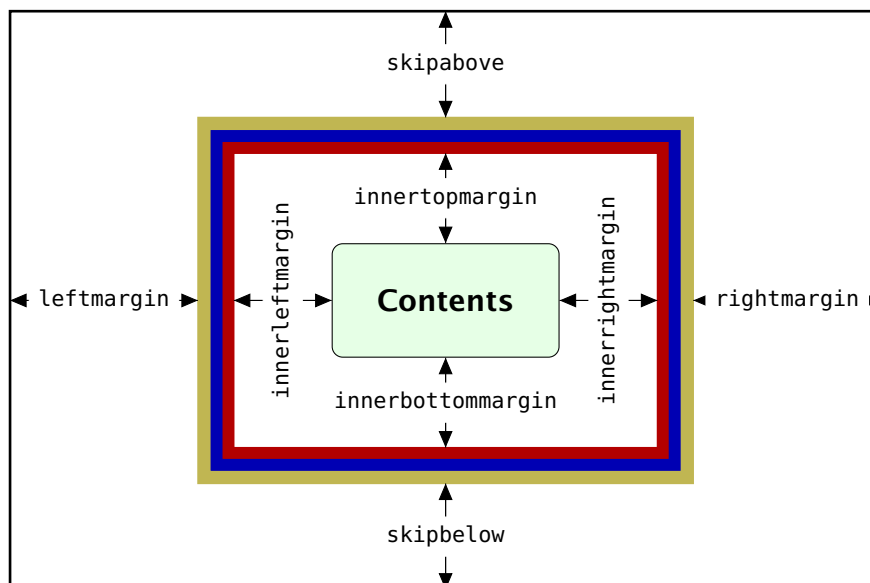


Figure 1: adjustable lengths of mdframed

**skipabove** Sets an additional skip above the frame. default=0pt

**skipbelow** Sets an additional skip below the frame. default=0pt

**margin** This option is not longer supported. Use **leftmargin** and **rightmargin** instead.

**leftmargin** Sets the length of the left margin of the environment. default=0pt

**rightmargin** Sets the length of the right margin of the environment. default=0pt

**innerleftmargin** Sets the length of the inner left margin of the environment. default=10pt

**innerrightmargin** Sets the length of the inner right margin of the environment. default=10pt

**innertopmargin** Sets the length of the inner top margin of the environment. default=.4\baselineskip

**innerbottommargin** Sets the length of the inner bottom margin of the environment. default=.4\baselineskip

**The following lengths are not shown in figure (1).**

**outermargin** Sets the length of the outer margin. This option is only available in twoside-mode.

**innermargin** Sets the length of the inner margin. This option is only available in twoside-mode.

**splittopskip** Sets the length of the skip above the split part of the environment. default=0pt

**splitbottomskip** Sets the length of the skip below the split part of the environment. default=0pt

<b>linewidth</b>	Sets the width of the line around the environment.	default=0.4pt
<b>roundcorner</b>	Sets the size of the radius of the corners of the frames. <b>This works only with <code>framemethod=TikZ</code> and <code>framemethod=PSTricks</code>.</b>	default=0pt
<b>innerlinewidth</b>	Sets the width of the inner line around the environment. <b>This works only with <code>framemethod=TikZ</code>.</b>	default=0pt
<b>outerlinewidth</b>	Sets the width of the outer line around the environment. <b>This works only with <code>framemethod=TikZ</code>.</b>	default=0pt
<b>middlelinewidth</b>	Sets the width of the middle line around the environment. <b>This works only with <code>framemethod=TikZ</code>.</b>	default=linewidth

#### 4.2.2. Colored Options

<b>linecolor</b>	Sets the color of the line around the environment.	default=black
<b>innerlinecolor</b>	Sets the color of the inner line around the environment. <b>This works only with <code>framemethod=TikZ</code>.</b>	default=linecolor
<b>middlelinecolor</b>	Sets the color of the middle line around the environment. <b>This works only with <code>framemethod=TikZ</code>.</b>	default=linecolor
<b>outerlinecolor</b>	Sets the color of the outer line around the environment. <b>This works only with <code>framemethod=TikZ</code>.</b>	default=linecolor
<b>backgroundcolor</b>	Sets the color of the background of the environment.	default=white
<b>fontcolor</b>	Sets the color of the contents of the environment.	default=black

#### 4.3. Hidden Lines

<b>topline</b>	Draws a line at the top.	default=true
<b>bottomline</b>	Draws a line at the bottom.	default=true
<b>leftline</b>	Draws a line on the left.	default=true
<b>rightline</b>	Draws a line on the right.	default=true

#### 4.4. Frametitle

<b>frametitle</b>	The environment get a title. To set a title use <b><code>frametitle={The Title of the frame}</code></b> as an option of the environment.	default=none
<b>frametitleformat</b>	Sets the format of the frame title.	default=\bfseries \large

## 4.4.1. General options

<b>ntheorem</b>	Before setting this boolean key, you have to load the package <code>ntheorem</code> . With this option you set the values <code>\theorempreskipamount</code> and <code>\theorempostskipamount</code> to 0pt.	default=false
<b>nobreak</b>	Sometimes it is useful to prevent a frame from splitting. The <b>nobreak</b> option is used for this purpose. If you activate this option you can enable it by setting <b>nobreak=false</b> .	default=false
<b>needspace</b>	Sometimes it is useful to set a minimum height before a frame should be splitted. For such cases you can use <b>needspace</b> . The option requires a length which sets the minimum height before a frame will be splitted.	default=0pt
<b>style</b>	If you define a special style with <code>\mdfdefinstyle</code> you can use the key <b>style</b> to load the style. <code>mdframed</code> has no predefined styles.	
<b>pstrickssetting</b>	With this key you can pass several options to <code>\psset</code> . For example if you want all lines dashed you will have to set <b>pstrickssetting={linestyle=dashed}</b> . It is very important to put the options of <b>pstrickssetting</b> in brackets. <b>This works only with framemethod=PSTricks</b> .	default=none
<b>tikzsetting</b>	With this key you can pass several options to <code>\tikzset</code> . Some examples are listed in the next section. It is very important to put the options of <b>tikzsetting</b> in brackets. <b>This works only with framemethod=TikZ</b> .	default=none

## 5. Examples

Now I present some examples. Of course I know that some of them are only gimmicks. To create the following examples I am using **framemethod=TikZ**.

```
\mdfsetup{outerlinewidth=5pt,innerlinewidth=0pt,
           outerlinecolor=red,roundcorner=5pt}
```

Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text

Now I will add the next options

```
\mdfsetup{topline=false,leftline=false,}
```

Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text Some Text

Gimmick:

```
\mdfsetup{splitbottomskip=0.8cm, splittopskip=0cm,
  innerrightmargin=2cm, innertopmargin=1cm,%
  innerlinewidth=2pt, outerlinewidth=2pt,
  middlelinewidth=10pt, backgroundcolor=red,
  linecolor=blue, middlelinecolor=gray,
  tikzsetting={draw=yellow, line width=3pt,%
    dashed,%
    dash pattern= on 10pt off 3pt},
  rightline=false, bottomline=false}
```

Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text  
 Some Text Some Text Some Text Some Text Some Text



### 5.1. Working in twocolumn mode

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac,

nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Some Text Some Text Some Text Some Text  
Text Some Text Some Text

## 5.2. Framed listings

The example below is inspired by the following post on StackExchange [Background overflows when using rounded corners for listings \(package: 'listings'\)](#)

Here the solution which can be decorate as usual.

```
\BeforeBeginEnvironment{\lstlisting}{\%
\begin{mdframed}[<modification>]\%
\vspace{-0.7em}}
\AfterEndEnvironment{\lstlisting}{\%
\vspace{-0.5em}}
\end{mdframed}}
```

## 6. Errors, Warnings and Messages

The package `mdframed` provides different errors, warnings and messages in the log-file. Some  $\text{\LaTeX}$ -editors like  $\text{\TeX}$ Maker(X) have a special tab for errors and warnings but not for messages. So you should look in the log-File itself.

The followings errors and warnings are generated by `mdframed`.

The package ... does not exist but  
needed by `mdframed`

To avoid this problem you should install the required packages which are listed in section 2.

package option `style` is depreciated  
use `framemethod` instead `mdframed`

With version 0.9d `mdframed` changed the meaning of the option `style`. The option is used to load a defined style by `\mdfdefinestyle`. Instead uses `framemethod` (see section 4.1).

Unknown `framemethod` .... `mdframed`

The input string for the option `framemethod` is unkown. See section 4.1.

You have not loaded `ntheorem` yet

To use the option `ntheorem` you have to load the package `ntheorem`.

You have only a width of 3cm

The package `mdframed` calculates the width of the contents based on the given options. If the width of the contents smaller than 3 cm you will get this warnings. You should change the settings to get a greater width.

You got a bad break  
you have to change it manually  
by changing the text , the space  
or something else

Sometimes you have enough vertical space for the rules and the space between the rules and the contents but not for the contents itself. In this situation you will get this warning because the contents of this box is empty. You have the possibility to change the settings or include a `\clearpage` in front of the environment `mdframed`. So far I have no idea how to avoid such things.

```
You got a bad break
because the split box is empty
You have to change the page settings
like enlargethispage or something else
You got a bad break
```

See the explanation above.

```
You got a bad break
because the last split box is empty
You have to change the settings
```

The same reason as above but only in the last box.

```
Option ... is already consumed
and has no effect on input line ...
```

If you set a global option inside the document body you will get this warning.

## 7. Known Problems

In this section I will collect known problems. In case you encounter any further problems, please drop me an email, [marco.daniel at mada-nada.de](mailto:marco.daniel@mada-nada.de).

Do you have any ideas / wishes on further extensions to this package? Please let me know!

1. So far the environment isn't compatible with the package `gmverb`.
2. So far it isn't possible to combine the environment `\begin{multicols}` of the package `multicol` with `mdframed`.
3. So far it isn't possible to use footnotes within a frame.

## 8. ToDo

1. see „Known Problems“.
2. Create new styles.
3. Improve page breaks.

## 9. Previous versions

If you have trouble with the new version of `mdframed` you can load `mdframedpre` instead. In this way you load the version v0.6 (see [Revision history](#)).

## **10. Acknowledgements**

Dick Nickalls; Dr. Dietrich Grau; Piazza Luca Jobst Hoffmann.

Thanks for proofreading

Alan Munn and Nahid Shajari

## A. More information

In the following section I want to present how to create your own frame.

### A.1. How does mdframed work?

With the environment `\begin{mdframed} ... \end{mdframed}` the whole contents will be saved in a `\savebox` called `\@tempboxa`. After the calculation of the width and the height of the `\@tempboxa` (done by `mdframed.sty`) the box will be set sequentially (done by `md-frame-X.mdf`). The following figure demonstrates this.

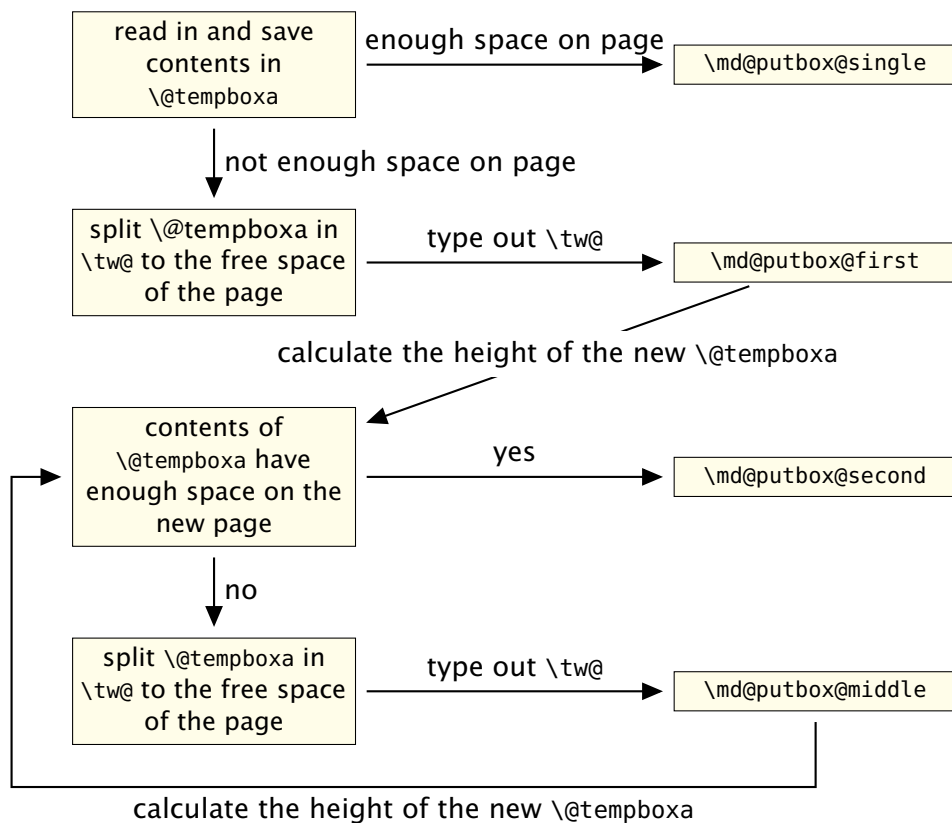


Figure 2: Setting the contents of mdframed

The width of the contents is the result of the settings of **leftmargin**, **rightmargin**, **linewidth**, **innerleftmargin** and **innerrightmargin** (see figure (1)).

### A.2. The Framecommands

The package `mdframed` knows four kinds of „Framecommand“. These commands tell  $\text{\LaTeX}$  how to set the contents of `mdframed`.

**\md@putbox@single** This command sets the contents of a single unsplit frame.

**\md@putbox@first** This command sets the contents of the first frame of a split frame.

**\md@putbox@middle** This command sets the contents of the middle frame of a split frame.

**\md@putbox@second** This command sets the contents of the last frame of a split frame.

Using the explained commands we give an example. The command **\box** uses the contents of the savebox and types them out.

First we want to type out the single box without any settings (but with the calculated width).

```
\makeatletter
\def\md@putbox@single{\box\@tempboxa}
\makeatother
```

I am using the command **\leftline** to start the „Framcommands“ at the left.

```
\makeatletter
\def\md@putbox@single{\leftline{\box\@tempboxa}}
\makeatother
```

Now you have to know how the lengths are named. Every length which can be modified by the options has the following syntax:

```
\mdf@<Name of the Length>@length
```

For example the leftmargin is:

```
\mdf@leftmargin@length
```

To create only a line at the left with the correct **leftmargin** you can set **\md@putboxsingle** as follows

```
\makeatletter
\def\md@putbox@single{%
  \leftline{%
    \hspace*{\mdf@leftmargin@length}%
    \rule[-\dp\@tempboxa]{\mdf@linewidth}%
      {\ht\@tempboxa+\dp\@tempboxa}%
    \box\@tempboxa
  }%
}
\makeatother
```

In this way you can do what you want. If you create your own style you can save the file as **md-frame-X.mdf**. X must be an integer. In this way you can use the option **style** to load the file by setting **style=X**.

### A.3. Modify the frame

The example below is inspired by the following post on StackExchange [Theorem decorations that stay with theorem environment](#)

First I will show the the result.

**Lemma A.1** *Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.*

You can see how the lines on the left and the right are interrupted. Now I will show the code.

I define a command which draws white lines on the left and the right side in the same way as in the style file. For this example I must include the file md-frame-1.mdf because this document used the global style 1.

With the new length `\interruptlength` you can manipulate the amount of overlap.

```
\newlength{\interruptlength}
\setlength{\interruptlength}{1.5 ex}
\makeatletter
\newlength{\interruptlength}
\setlength{\interruptlength}{2.5 ex}
\newrobustcmd\overlaplines{%
  \input{md-frame-0.mdf}%
  \global\defcounter{mdf@globalstyle@cnt}{0}
  \appto\md@frame@leftline@single{%
    \llap{\color{white}%
      \rule[-\dp\@tempboxa
        -\mdf@innerbottommargin@length%
        -\mdf@middlelinewidth@length
        +\interruptlength]{%
          {\mdf@middlelinewidth@length}%
          {\mdf@boundingboxheight%
            +2\mdf@middlelinewidth@length
            -2\interruptlength}%
        }%
    }%
  }%
  \appto\md@frame@rightline@single{%
    \rlap{\color{white}%
      \hspace*{\mdf@boundingboxwidth}%
      \hspace*{\mdf@innerrightmargin@length}%
    }%
  }%
```

```

\rule[-\dp\@tempboxa
      -\mdf@innerbottommargin@length%
      -\mdf@middlelinewidth@length
      +\interruptlength]{%
      {\mdf@middlelinewidth@length}
      {\mdf@boundingboxheight%
       +2\mdf@middlelinewidth@length%
       -2\interruptlength}{%
      }%
    }%
  }
\overlapiines
\newmdtheoremenv[style=0,ntheorem,linewidth=10pt]{lem}{Lemma}[section]
\makeatother

```

#### A.4. *mdframed* in combination with *multicol*

How I wrote in „Known Problems“ you can't combine *multicol* with *mdframed*. In a simple way without any breaks you can use:

```

\begin{multicols}{2}
\lipsum[1]
\begin{mdframed}
Text\par Text\par Text
\end{mdframed}
\lipsum[2]
\end{multicols}

```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis,

diam. Duis eget orci sit amet orci dignissim rutrum.

Text
Text
Text

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## A.5. Revision history

### Version 0.9d submitted 04 Oct 2011

- fixes bugs (thanks to Lars Madsen)
- added option **hidealllines**
- fixed documentation

### Version 0.9e submitted 11 Sep 2011

- working with twoside modus

### Version 0.9d submitted 10 Sep 2011

- **changed the meaning of the option `style`!!!** (inspired by Lars Madsen)
- added option **framemethod** (inspired by Lars Madsen)
- added options **needspace** (inspired by Lars Madsen)
- added new command `\mdfdefinestyle` (inspired by Lars Madsen)
- fixes documentation
- renamed `md-frame-3.mdf` to `md-frame-2.mdf`

### Version 0.9b submitted 7 Sep 2011

- fixes bugs in `\newmdtheoremenv` (Thanks to Enrico Gregorio)

### Version 0.9a submitted 5 Sep 2011

- fixes bugs (Thanks to Lars Madson)
- expanded documentation (added revision history)

### Version 0.9 submitted 4 Sep 2011

- added option **nobreak**
- detecting float environments to prevent split calculation
- expand documentation (Thanks to Alan Munn)

### Version 0.8a

- fixes bugs
- fixes documentation

### Version 0.8 submitted 22 Aug 2011

- added commands: `\newmdenv`, `\renewmdenv`, `\newmdtheoremenv`
- fixes bugs

- fixes documentation

### Version 0.7a submitted 6 August 2011

- added option **frametitle**
- added option **frametitlefont**
- allow twocolumn-mode
- changed the calculation
- added option **tikzsetting**
- added options for hidden lines for all styles
- fixes bugs

### Version 0.6a submitted 22 Dec 2010

- fixes bugs
- added `\mdfsetup`
- expanded documentation

### Version 0.6 submitted 18 Dec 2010

- added **style=3** with `pstricks`
- added option **pstrickssetting**
- added option **splitbottomskip**
- added option **splittopskip**
- added options for hidden lines
- changed the calculation
- fixes bugs

### Version 0.4a submitted 14 May 2010

- fixes bug in `fontcolor`

### Version 0.4 submitted 13 May 2010

- Elke Schubert creates style file for `tikz`
- fixes some bugs – calculation of the page dimen (thanks Dick Nickalls)
- using `tikz` for the frame with different styles

### Version 0.3b submitted 1 May 2010

- fixes some bugs – thanks to Dr. Dietrich Grau
- added new options: **ntheorem**

### Version 0.3a submitted 23 Apr 2010

- added new options: **leftmargin** and **rightmargin**
- fixes some bugs

### Version 0.3 submitted 16 Apr 2010

- first upload to [CTAN](#)