

Examples of the mdframed package

auto-split frame environment

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v1.0b

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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 pagebreaks in framed text.

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

The dtx-file creates only the files `mdframed-example-default.tex` `mdframed-example-tikz.tex`
`mdframed-example-pstricks.tex` `mdframed-example-texsx.tex`

FYI: I create a repository for `mdframed` on [github](#) where you can [download](#) the current development status.

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1 Motivation

To compile the files use `Makefile` with `make EXAMPLES`.

2 The file `mdframed-example-default`

```
1 %Documentation of the package mdframed
2 %$Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
3 \setcounter{errorcontextlines}{999}
4 \documentclass[parskip=false,english,11pt]{ltxmdf}
5 \ltxmdfsetifoot $Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
6
7 \usepackage{showexpl}
8 \lstset{style=lstltxmdf,explpreset={pos=b,rframe={}},}
9
10 \newcommand\Loadedframemethod{default}
11 \usepackage[framemethod=\Loadedframemethod]{mdframed}
12
13 \title{The \Pack{mdframed} package}
14 \subtitle{Examples for \Opt{framemethod=\Loadedframemethod}}
15 \author{\href{mailto:marco.daniel@mada-nada.de}{Marco Daniel}}
16 \version{\mdversion}
17 \introduction{In this document I collect various examples for \Opt{framemethod=\Loadedframemethod}.
```

¹With thanks to Heiko Oberdiek, Rolf Niepraschk, Martin Scharrer and Herbert Voss.
Sorry for bad English.

```

18 Some presented examples are more or less exorbitant.}
19
20 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
21 \newrobustcmd\ExampleText{%
22     An \textit{inhomogeneous linear} differential equation has the form
23     \begin{align}
24         L[v] = f,
25     \end{align}
26     where  $L$  is a linear differential operator,  $v$  is
27     the dependent variable, and  $f$  is a given non-zero
28     function of the independent variables alone.
29 }
30
31 \newcounter{examplecount}
32 \setcounter{examplecount}{0}
33 \renewcommand\thesubsection{}
34 \newcommand\Examplesec[1]{%
35 \stepcounter{examplecount}%
36 \subsection{Example~\arabic{examplecount}---#1\relax}%
37 }
38
39 \begin{document}
40 \maketitle
41 \section{Loading}
42 In the preamble only the package \Pack{mdframed} with the option \Opt{framemethod=\Loadedframemethod} i
43
44 {\large\color{red!50!black}
45 \NOTE Every \Cmd{global} inside the examples is necessary to work with the package \Pack{showexpl}.}
46
47 \section{Examples}
48 All examples have the following settings:
49
50 \begin{tltxmdfexample}
51 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
52 \newrobustcmd\ExampleText{%
53 An \textit{inhomogeneous linear} differential equation
54 has the form
55 \begin{align}
56 L[v] = f,
57 \end{align}
58 where  $L$  is a linear differential operator,  $v$  is
59 the dependent variable, and  $f$  is a given non-zero
60 function of the independent variables alone.
61 }
62 \end{tltxmdfexample}
63 \clearpage
64 \Examplesec{very simple}
65 \begin{LTExample}
66 \global\mdfdefinestyle{exampledefault}{%
67     linecolor=red,linewidth=3pt,%
68     leftmargin=1cm,rightmargin=1cm
69 }
70 \begin{mdframed}[style=exampledefault]
71 \ExampleText
72 \end{mdframed}
73 \end{LTExample}

```

```

74
75 \Examplesec{hidden line + frame title}
76 \begin{LTExample}
77 \global\mdfapptodefinestyle{exampledefault}{%
78   topline=false,rightline=true,bottomline=false}
79 \begin{mdframed}[style=exampledefault,frametitle={Inhomogeneous linear}]
80 \ExampleText
81 \end{mdframed}
82 \end{LTExample}
83 \clearpage
84
85 \Examplesec{colored frame title}
86 \begin{LTExample}
87 \renewcommand\mdframedtitleenv[1]{%
88   \colorbox{green}{%
89     \parbox{\dimexpr\linewidth-6pt\relax}%6pt=linewidth
90     {\centering\bfseries #1}}%
91     \par\kern.5\baselineskip\noindent%
92   }
93 \global\mdfapptodefinestyle{exampledefault}{%
94   rightline=true,innerleftmargin=0,inerrightmargin=0}
95 \begin{mdframed}[style=exampledefault,frametitle={Inhomogeneous linear}]
96 \ExampleText
97 \end{mdframed}
98 \end{LTExample}
99
100 \Examplesec{framed picture which is centered}
101 \begin{LTExample}
102 \begin{mdframed}[userdefinedwidth=6cm,align=center,
103   linecolor=blue,linewidth=4pt]
104 \includegraphics[width=\linewidth]{donald-duck}
105 \end{mdframed}
106 \end{LTExample}
107
108 \Examplesec{theorem with separate header and the help of TikZ (complex)}
109 \begin{tltxmdfexample}
110 \makeatletter
111 \newcounter{theo}[section]
112 \newcommand*\newmdframedtitleenv[1]{%
113   \@afterindentfalse
114   {\parindent \z@
115     \setlength{\parfillskip}{\z@ plus 1fil}%
116     \mdraggedtitle\nobreak%
117     \makebox[\linewidth][l]{%
118       \hspace*{-1\mdf@innerleftmargin@length}%
119       \rlap{\color{white}%
120         \hspace*{-1\mdf@middlelinewidth@length}%
121         \rule[\mdf@middlelinewidth@length]{%
122           {\dimexpr\linewidth+1\mdf@innerleftmargin@length%
123             +\mdf@innerrightmargin@length
124             +2\mdf@middlelinewidth@length\relax}%
125           {\dimexpr\ht\strutbox+.3333em\relax}%
126         }}%
127       \rlap{\color{blue!20}%
128         \rule{\dimexpr\linewidth+\mdf@innerleftmargin@length%
129           +\mdf@innerrightmargin@length\relax}%

```

```

130         {\mdf@middlelinewidth@length}}%
131     \hspace*{-1\mdf@middlelinewidth@length}%
132     \tikz[remember picture,baseline]%
133         \node[,draw = none, text = black,fill = blue!20,]%
134         {\mdf@frametitlefont\strut Theorem~\thetheo#1};\relax%
135 }%
136 \par\kern.5\baselineskip}%
137 \@afterheading}
138 \newenvironment{theo}[1][]{%
139     \let\mdframedtitleenv\newmdframedtitleenv%
140     \stepcounter{theo}%
141     \ifstrempy{#1}%
142         {\mdfsetup{frametitle={\strut}}}%
143         {\mdfsetup{frametitle={:#1}}}%
144     \begin{mdframed}[innertopmargin=0pt,linecolor=blue!20,%
145                     linewidth=2pt,topline=false,]%
146     }\end{mdframed}}
147 \begin{theo}[Inhomogeneous Linear]
148 \ExampleText
149 \end{theo}
150
151 \begin{theo}
152 \ExampleText
153 \end{theo}
154 \end{tltxmdfexample}
155 \makeatletter
156 \newcounter{theo}[section]
157 \newcommand*\newmdframedtitleenv[1]{%
158     \@afterindentfalse
159     {\parindent \z@
160         \setlength{\parfillskip}{\z@ plus 1fil}%
161         \mdraggedtitle\nobreak%
162         \makebox[\linewidth][l]{%
163             \hspace*{-1\mdf@innerleftmargin@length}%
164             \rlap{\color{white}%
165                 \hspace*{-1\mdf@middlelinewidth@length}%
166                 \rule[\mdf@middlelinewidth@length]{%
167                     {\dimexpr\linewidth+1\mdf@innerleftmargin@length%
168                     +\mdf@innerrightmargin@length%
169                     +2\mdf@middlelinewidth@length\relax}%
170                     {\dimexpr\ht\strutbox+.3333em\relax}%
171                 }%
172                 \rlap{\color{blue!20}%
173                     \rule{\dimexpr\linewidth+\mdf@innerleftmargin@length%
174                     +\mdf@innerrightmargin@length\relax}%
175                     {\mdf@middlelinewidth@length}}%
176                     \hspace*{-1\mdf@middlelinewidth@length}%
177                     \tikz[remember picture,baseline]%
178                     \node[,draw = none, text = black,fill = blue!20,]%
179                     {\mdf@frametitlefont\strut Theorem~\thetheo#1};\relax%
180                 }%
181             \par\kern.5\baselineskip}%
182         \@afterheading}
183 \newenvironment{theo}[1][]{%
184     \let\mdframedtitleenv\newmdframedtitleenv%
185     \stepcounter{theo}%

```

```

186 \ifstrempy{#1}%
187   {\mdfsetup{frametitle={\strut}}}%
188   {\mdfsetup{frametitle={:~#1}}}%
189 \begin{mdframed}[innertopmargin=0pt,linecolor=blue!20,%
190               linewidth=2pt,topline=false,]%
191   {\end{mdframed}}
192
193 \begin{theo}[Inhomogeneous Linear]
194 \ExampleText
195 \end{theo}
196
197 \begin{theo}
198 \ExampleText
199 \end{theo}
200
201 \clearpage
202 \Examplesec{hide only a part of a line}
203 The example below is inspired by the following post on StackExchange \href{http://tex.stackexchange.com,
204 \begin{LTXexample}
205 \makeatletter
206 \newlength{\interruptlength}
207 \setlength{\interruptlength}{2.5ex}
208 \newrobustcmd\overlaplines{%
209 \appto\md@frame@leftline@single{%
210 \llap{\color{white}%
211 \rule[\dimexpr-\mdfboundingboxdepth%
212 \ifbool{mdf@bottomline}{-\mdf@middlelinewidth@length}{}}%
213 +\interruptlength\relax}%
214 {\mdf@middlelinewidth@length}%
215 {\dimexpr\mdfboundingboxtotalheight%
216 +\ifbool{mdf@bottomline}{\mdf@middlelinewidth@length}{0pt}%
217 +\ifbool{mdf@topline}{\mdf@middlelinewidth@length}{0pt}%
218 -2\interruptlength\relax}%
219 }%
220 }%
221 \appto\md@frame@rightline@single{%
222 \rlap{\color{white}%
223 \hspace*{\mdfboundingboxwidth}%
224 \hspace*{\mdf@innerrightmargin@length}%
225 \rule[\dimexpr-\mdfboundingboxdepth%
226 \ifbool{mdf@bottomline}{-\mdf@middlelinewidth@length}{}}%
227 +\interruptlength\relax}%
228 {\mdf@middlelinewidth@length}%
229 {\dimexpr\mdfboundingboxtotalheight%
230 +\ifbool{mdf@bottomline}{\mdf@middlelinewidth@length}{0pt}%
231 +\ifbool{mdf@topline}{\mdf@middlelinewidth@length}{0pt}%
232 -2\interruptlength\relax}%
233 }%
234 }
235 }
236 \makeatother
237 \overlaplines
238
239 \begin{mdframed}[linecolor=blue,linewidth=8pt]
240 \ExampleText
241 \end{mdframed}

```

```

242 \end{LTXexample}
243 \end{document}
244 \endinput

```

3 The file mdframed-example-tikz

```

245 %Documentation of the package mdframed
246 %$Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
247 \setcounter{errorcontextlines}{999}
248 \documentclass[parskip=false,english,11pt]{ltxmdf}
249 \ltxmdfsetifoot $Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
250
251 \usepackage{showexpl}
252 \lstset{style=lstltxmdf,explpreset={pos=b,rframe={}},}
253
254 \newcommand\Loadedframemethod{TikZ}
255 \usepackage[framemethod=\Loadedframemethod]{mdframed}
256
257 \title{The \Pack{mdframed} package}
258 \subtitle{Examples for \Opt{framemethod=\Loadedframemethod}}
259 \author{\href{mailto:marco.daniel@mada-nada.de}{Marco Daniel}}
260 \version{\mdversion}
261 \introduction{In this document I collect various examples for \Opt{framemethod=\Loadedframemethod}.
262 Some presented examples are more or less exorbitant.}
263
264 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
265 \newrobustcmd\ExampleText{%
266     An \textit{inhomogeneous linear} differential equation has the form
267     \begin{align}
268         L[v] &= f,
269     \end{align}
270     where $L$ is a linear differential operator, $v$ is
271     the dependent variable, and $f$ is a given non-zero
272     function of the independent variables alone.
273 }
274
275 \newcounter{examplecount}
276 \setcounter{examplecount}{0}
277 \renewcommand\thesubsection{}
278 \newcommand\Examplesec[1]{%
279 \stepcounter{examplecount}%
280 \subsection{Example~\arabic{examplecount}---\relax}%
281 }
282
283 \begin{document}
284 \maketitle
285 \section{Loading}
286 In the preamble only the package \Pack{mdframed} with the option \Opt{framemethod=\Loadedframemethod} is
287
288 {\large\color{red!50!black}
289 \NOTE Every \Cmd{global} inside the examples is necessary to work with the package \Pack{showexpl}.}
290
291 \section{Examples}
292 All examples have the following settings:
293
294 \begin{tltxmdfexample}

```

```

295 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
296 \newrobustcmd\ExampleText{%
297 An \textit{inhomogeneous linear} differential equation
298 has the form
299 \begin{align}
300 L[v] = f,
301 \end{align}
302 where  $L$  is a linear differential operator,  $v$  is
303 the dependent variable, and  $f$  is a given non-zero
304 function of the independent variables alone.
305 }
306 \end{tltxmdfexample}
307 \clearpage
308 \ExampleText{round corner}
309 \begin{LTXexample}
310 \global\mdfdefinestyle{exampledefault}{%
311     outerlinewidth=5pt,innerlinewidth=0pt,
312     outerlinecolor=red,roundcorner=5pt
313 }
314 \begin{mdframed}[style=exampledefault]
315 \ExampleText
316 \end{mdframed}
317 \end{LTXexample}
318
319 \Examplesec{hidden line + frame title}
320 \begin{LTXexample}
321 \global\mdfapptodefinestyle{exampledefault}{%
322     topline=false,leftline=false,}
323 \begin{mdframed}[style=exampledefault,frametitle={Inhomogeneous linear}]
324 \ExampleText
325 \end{mdframed}
326 \end{LTXexample}
327 \clearpage
328 \Examplesec{framed picture which is centered}
329 \begin{LTXexample}
330 \begin{mdframed}[userdefinedwidth=6cm,align=center,
331     linecolor=blue,middlelinewidth=4pt,roundcorner=5pt]
332 \includegraphics[width=\linewidth]{donald-duck}
333 \end{mdframed}
334 \end{LTXexample}
335
336 \Examplesec{Gimmick}
337 \begin{LTXexample}
338 \mdfsetup{splitbottomskip=0.8cm,splittopskip=0cm,
339     innerrightmargin=2cm,innertopmargin=1cm,%
340     innerlinewidth=2pt,outerlinewidth=2pt,
341     middlelinewidth=10pt,backgroundcolor=red,
342     linecolor=blue,middlelinecolor=gray,
343     tikzsetting={draw=yellow,line width=3pt,%
344         dashed,%
345         dash pattern= on 10pt off 3pt},
346     rightline=false,bottomline=false}
347 \begin{mdframed}
348 \ExampleText
349 \end{mdframed}
350 \end{LTXexample}

```

```

351
352 \Examplesec{complex example with TikZ}
353
354 \begin{tltxmdfexample}
355 \tikzstyle{titregris} =
356     [draw=gray, thick, fill=white, shading = exersicetitle, %
357     text=gray, rectangle, rounded corners,
358     right,minimum height=.7cm]
359
360 \pgfdeclarehorizontalshading{exersicebackground}{100bp}
361 {color(0bp)=(green!40);
362 color(100bp)=(black!5)}
363
364 \pgfdeclarehorizontalshading{exersicetitle}{100bp}
365 {color(0bp)=(red!40);
366 color(100bp)=(black!5)}
367
368 \newcounter{exercise}
369 \renewcommand\theexercise{Exercise~n\arabic{exercise}}
370 \makeatletter
371 \def\mdf@@exercisepoints{}
372 \define@key{mdf}{exercisepoints}{%
373     \def\mdf@@exercisepoints{#1}
374 }
375 \renewrobustcmd\mdfcreateextratikz{%
376     \node[titregris,xshift=1cm] at (P-|0) %
377         {\mdf@frametitlefont{\theexercise}~};
378     \ifdefempty{\mdf@@exercisepoints}%
379     {}%
380     {\node[titregris,left,xshift=-1cm] at (P)%
381         {\mdf@frametitlefont{\mdf@@exercisepoints points}~};}%
382 }
383 \makeatother
384
385 \mdfdefinestyle{exercisestyle}{%
386     outerlinewidth=1pt,
387     innerlinewidth=0pt,
388     roundcorner=2pt,
389     linecolor=gray,
390     tikzsetting={shading = exersicebackground},
391     innertopmargin=1.2\baselineskip,
392     skipabove={\dimexpr0.5\baselineskip+\topskip\relax},
393     needspace=3\baselineskip,
394     frametitlefont=\sffamily\bfseries,
395     settings={\global\stepcounter{exercise}},
396 }
397
398 \begin{mdframed}[style=exercisestyle,]
399 \ExampleText
400 \end{mdframed}
401
402 \begin{mdframed}[style=exercisestyle,exercisepoints=10]
403 \ExampleText
404 \end{mdframed}
405 \end{tltxmdfexample}
406

```



```

407 \tikzstyle{titregris} =
408     [draw=gray, thick, fill=white, shading = exersicetitle, %
409     text=gray, rectangle, rounded corners,
410     right,minimum height=.7cm]
411
412 \pgfdeclarehorizontalshading{exersicebackground}{100bp}
413 {color(0bp)=(green!40);
414 color(100bp)=(black!5)}
415
416 \pgfdeclarehorizontalshading{exersicetitle}{100bp}
417 {color(0bp)=(red!40);
418 color(100bp)=(black!5)}
419
420 \newcounter{exercise}
421 \renewcommand\theexercise{Exercise~n\arabic{exercise}}
422 \makeatletter
423 \def\mdf@@exercisepoints{}
424 \define@key{mdf}{exercisepoints}{%
425     \def\mdf@@exercisepoints{#1}
426 }
427 \renewrobustcmd\mdfcreateextratikz{%
428     \node[titregris,xshift=1cm] at (P-|0) {\textbf{\theexercise}~};
429     \ifdefempty{\mdf@@exercisepoints}%
430     {}%
431     {\node[titregris,left,xshift=-1cm] at (P)%
432         {\textbf{\mdf@frametitlefont{\mdf@@exercisepoints points}~}};%
433 }
434 \makeatother
435
436 \mdfdefinestyle{exercisestyle}{%
437     outerlinewidth=1pt,
438     innerlinewidth=0pt,
439     roundcorner=2pt,
440     linecolor=gray,
441     tikzsetting={shading = exersicebackground},
442     innertopmargin=1.2\baselineskip,
443     skipabove={\dimexpr0.5\baselineskip+\topskip\relax},
444     needspace=3\baselineskip,
445     frametitlefont=\sffamily\bfseries,
446     settings={\global\stepcounter{exercise}},
447 }
448
449 \begin{mdframed}[style=exercisestyle,]
450 \ExampleText
451 \end{mdframed}
452
453 \begin{mdframed}[style=exercisestyle,exercisepoints=10]
454 \ExampleText
455 \end{mdframed}
456
457 \end{document}
458 \endinput

```

4 The file *mdframed-example-pstricks*

```

459 %Documentation of the package mdframed

```

```

460 %$Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
461 \setcounter{errorcontextlines}{999}
462 \documentclass[parskip=false,english,11pt]{ltxmdf}
463 \ltxmdfsetifoot$Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
464
465
466
467 \lstDeleteShortInline{||}
468 \newcommand\Loadedframemethod{PSTricks}
469 \usepackage[framemethod=\Loadedframemethod]{mdframed}
470
471 \usepackage{showexpl}
472 \lstset{style=lstltxmdf,explpreset={pos=b,rframe={}}},}
473
474
475
476 \title{The \Pack{mdframed} package}
477 \subtitle{Examples for \Opt{framemethod=\Loadedframemethod}}
478 \author{\href{mailto:marco.daniel@mada-nada.de}{Marco Daniel}}
479 \version{\mdversion}
480 \introduction{In this document I collect various examples for \Opt{framemethod=\Loadedframemethod}.
481 Some presented examples are more or less exorbitant.}
482
483 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
484 \newrobustcmd\ExampleText{%
485     An \textit{inhomogeneous linear} differential equation has the form
486     \begin{align}
487         L[v] &= f,
488     \end{align}
489     where  $L$  is a linear differential operator,  $v$  is
490     the dependent variable, and  $f$  is a given non-zero
491     function of the independent variables alone.
492 }
493
494 \newcounter{examplecount}
495 \setcounter{examplecount}{0}
496 \renewcommand\thesubsection{}
497 \newcommand\Examplesec[1]{%
498 \stepcounter{examplecount}%
499 \subsection{Example~\arabic{examplecount}---\#1\relax}%
500 }
501
502 \begin{document}
503 \maketitle
504 \section{Loading}
505 In the preamble only the package \Pack{mdframed} with the option \Opt{framemethod=\Loadedframemethod}
506
507 {\large\color{red!50!black}
508 \NOTE Every \Cmd{global} inside the examples is necessary to work with the package \Pack{showexpl}.}
509 X
510 \section{Examples}
511 All examples have the following settings:
512
513 \begin{tltxmdfexample}
514 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
515 \newrobustcmd\ExampleText{%

```

```

516 An \textit{inhomogeneous linear} differential equation
517 has the form
518 \begin{align}
519 L[v] = f,
520 \end{align}
521 where  $L$  is a linear differential operator,  $v$  is
522 the dependent variable, and  $f$  is a given non-zero
523 function of the independent variables alone.
524 }
525 \end{tltxmdfexample}
526 \clearpage
527
528 \Examplesec{very simple}
529 \begin{LTXexample}
530 \global\mdfdefinestyle{exampledefault}{%
531     linecolor=red,linewidth=3pt,%
532     leftmargin=1cm,rightmargin=1cm
533 }
534 \begin{mdframed}[style=exampledefault,roundcorner=5]
535 \ExampleText
536 \end{mdframed}
537 \end{LTXexample}
538
539 \Examplesec{hidden line + frame title}
540 \begin{LTXexample}
541 \global\mdfapptodefinestyle{exampledefault}{%
542     topline=false,rightline=false,bottomline=false}
543 \begin{mdframed}[style=exampledefault,frametitle={Inhomogeneous linear}]
544 \ExampleText
545 \end{mdframed}
546 \end{LTXexample}
547
548 \clearpage
549
550 \Examplesec{Dash Lines}
551 \begin{LTXexample}
552 \global\mdfdefinestyle{exampledefault}{%
553     pstrickssetting={linestyle=dashed,},linecolor=red,linewidth=5pt}
554 \begin{mdframed}[style=exampledefault,]
555 \ExampleText
556 \end{mdframed}
557 \end{LTXexample}
558
559 \Examplesec{Double Lines}
560 \begin{LTXexample}
561 \global\mdfdefinestyle{exampledefault}{%
562     pstrickssetting={doubleline=true,doublesep=3pt},
563     linecolor=red,linewidth=5pt}
564 \begin{mdframed}[style=exampledefault,]
565 \ExampleText
566 \end{mdframed}
567 \end{LTXexample}
568 \end{document}
569 \endinput

```

5 The file mdframed-example-texsx

```

570 %Documentation of the package mdframed
571 %$Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
572 \setcounter{errorcontextlines}{999}
573 \documentclass[parskip=false,english,11pt,ltxlipsum]{ltxmdf}
574 \ltxmdfsetifoot $Id: mdframed-examples.dtx 270 2011-12-09 12:19:09Z marco $
575
576 \usepackage{showexpl}
577 \lstset{style=lstltxmdf,explpreset={pos=b,rframe={}},}
578
579 \newcommand\Loadedframemethod{default}
580 \usepackage[framemethod=\Loadedframemethod]{mdframed}
581
582 \title{The \Pack{mdframed} package}
583 \subtitle{Examples for \Opt{framemethod=\Loadedframemethod}}
584 \author{\href{mailto:marco.daniel@mada-nada.de}{Marco Daniel}}
585 \version{\mdversion}
586 \introduction{In this document I collect various examples for \Opt{framemethod=\Loadedframemethod}.
587 Some presented examples are more or less exorbitant.}
588
589 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
590 \newrobustcmd\ExampleText{%
591     An \textit{inhomogeneous linear} differential equation has the form
592     \begin{align}
593         L[v] &= f,
594     \end{align}
595     where  $L$  is a linear differential operator,  $v$  is
596     the dependent variable, and  $f$  is a given non-zero
597     function of the independent variables alone.
598 }
599
600 \newcounter{examplecount}
601 \setcounter{examplecount}{0}
602 \renewcommand\thesubsection{}
603 \newcommand\Examplesec[1]{%
604 \stepcounter{examplecount}%
605 \subsection{Example~\arabic{examplecount}---\relax}%
606 }
607
608 \begin{document}
609 \maketitle
610 \section{Loading}
611 In the preamble only the package \Pack{mdframed} with the option \Opt{framemethod=\Loadedframemethod} is
612
613 {\large\color{red!50!black}
614 \NOTE Every \Cmd{global} inside the examples is necessary to work with the package \Pack{showexpl}.}
615
616 \section{Examples}
617 All examples have the following settings:
618
619 \begin{tltxmdfexample}
620 \mdfsetup{skipabove=\topskip,skipbelow=\topskip}
621 \newrobustcmd\ExampleText{%
622 An \textit{inhomogeneous linear} differential equation
623 has the form

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624 \begin{align}
625 L[v] = f,
626 \end{align}
627 where  $L$  is a linear differential operator,  $v$  is
628 the dependent variable, and  $f$  is a given non-zero
629 function of the independent variables alone.
630 }
631 \end{tltxmdfexample}
632 \clearpage
633 \Examplesec{Package listings}
634 The example below is inspired by the following post on StackExchange \href{http://tex.stackexchange.com}
635
636 Here the solution which can be decorate as usual.
637
638 \begin{tltxmdfexample}[moretexcs={BeforeBeginEnvironment,AfterEndEnvironment},morekeywords={lstlisting}]
639 \BeforeBeginEnvironment{lstlisting}{%
640     \begin{mdframed}[<modification>%
641         \vspace{-0.7em}}
642 \AfterEndEnvironment{lstlisting}{%
643     \vspace{-0.5em}%
644     \end{mdframed}}
645 \end{tltxmdfexample}
646
647 \Examplesec{Package multicols}
648 How I wrote in \enquote{Known Problems} you can't combine \Pack{multicols} with \Pack{mdframed}. In a s
649 \begin{LTXexample}
650 \begin{multicols}{2}
651 \lipsum[1]
652 \begin{mdframed}
653 \ExampleText
654 \end{mdframed}
655 \lipsum[2]
656 \end{multicols}
657 \end{LTXexample}
658 \clearpage
659 \twocolumn[\Examplesec{Working in twocolumn mode}]
660 \begin{tltxmdfexample}
661 \twocolumn[%
662     \Examplesec{Working in
663         twocolumn mode}]
664 \lipsum[2]
665 \begin{mdframed}[%
666     leftmargin=10pt,%
667     rightmargin=10pt,%
668     linecolor=red,
669     backgroundcolor=yellow]
670 \ExampleText
671 \end{mdframed}
672 \lipsum[2]
673 \end{tltxmdfexample}
674 \lipsum[2]\lipsum[2]
675 \begin{mdframed}[leftmargin=10pt,%
676     rightmargin=10pt,%
677     linecolor=red,
678     backgroundcolor=yellow]
679 \ExampleText

```

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680 \end{mdframed}
681 \lipsum[2]
682 \onecolumn
683 \Examplesec{Working inside enumerate}
684 \begin{LTXexample}
685 Text Text Text Text Text Text Text
686 \begin{enumerate}
687 \item in the following \ldots
688     \begin{mdframed}[linecolor=blue,linewidth=2]
689         \ExampleText
690     \end{mdframed}
691 \item \lipsum[2]
692 \end{enumerate}
693 Text Text Text Text Text Text
694 \end{LTXexample}
695 \end{document}
696 \endinput
```