

# The mdframed package

Examples for framemethod=PSTricks

Marco Daniel

v1.6

2012/04/29

In this document I collect various examples for `framemethod=PSTricks`. Some presented examples are more or less exorbitant.

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## 1 Loading

In the preamble only the package `mdframed` with the option `framemethod=PSTricks` is loaded. All other modifications will be done by `\mdfdefinestyle` or `\mdfsetup`.

### Note

Every `\global` inside the examples is necessary to work with the package `showexpl`. X

## 2 Examples

All examples have the following settings:

```
\mdfsetup{skipabove=\topskip,skipbelow=\topskip}
\newrobustcmd\ExampleText{%
An \textit{inhomogeneous linear} differential equation
has the form
\begin{align}
L[v] = f,
\end{align}
where  $L$  is a linear differential operator,  $v$  is
the dependent variable, and  $f$  is a given non-zero
function of the independent variables alone.
}
```

## Example 1 – very simple

```
\global\mdfdefinestyle{exampledefault}{%
  \linecolor=red,middlelinewidth=3pt,%
  \leftmargin=1cm,rightmargin=1cm
}
\begin{mdframed}[style=exampledefault,roundcorner=5]
\ExampleText
\end{mdframed}
```

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \quad (1)$$

where  $L$  is a linear differential operator,  $v$  is the dependent variable, and  $f$  is a given non-zero function of the independent variables alone.

## Example 2 – hidden line + frame title

```
\global\mdfapptodefinestyle{exampledefault}{%
  \topline=false,rightline=false,bottomline=false,
  \frametitle=true,innertopmargin=6pt,
  \outerlinewidth=6pt,outerlinecolor=blue,
  \pstricksappsetting={\addtopsstyle{mdfouterlinestyle}{linestyle=dashed}},
  \innerlinecolor=yellow,innerlinewidth=5pt}%
\begin{mdframed}[style=exampledefault,frametitle={Inhomogeneous linear}]
\ExampleText
\end{mdframed}
```

### Inhomogeneous linear

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \quad (2)$$

where  $L$  is a linear differential operator,  $v$  is the dependent variable, and  $f$  is a given non-zero function of the independent variables alone.

### Example 3 – Dash Lines

```
\global\mdfdefinestyle{exampledefault}{%
  pstrickssetting={linestyle=dashed,},linecolor=red,linewidth=5pt}
\begin{mdframed}[style=exampledefault,]
\ExampleText
\end{mdframed}
```

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \tag{3}$$

where  $L$  is a linear differential operator,  $v$  is the dependent variable, and  $f$  is a given non-zero function of the independent variables alone.

### Example 4 – Double Lines

```
\global\mdfdefinestyle{exampledefault}{%
  pstrickssetting={doubleline=true,doublesep=6pt},
  linecolor=red,linewidth=5pt,middlelinewidth=4pt}
\begin{mdframed}[style=exampledefault,]
\ExampleText
\end{mdframed}
```

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \tag{4}$$

where  $L$  is a linear differential operator,  $v$  is the dependent variable, and  $f$  is a given non-zero function of the independent variables alone.

### Example 5 – Shadow frame

```

\newmdenv[shadow=true,
           shadowsize=11pt,
           linewidth=8pt,
           frametitle=rule=true,
           roundcorner=10pt,
           ]{myshadowbox}
\begin{myshadowbox}[frametitle={Inhomogeneous linear}]
\ExampleText
\end{myshadowbox}

```

### Inhomogeneous linear

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \tag{5}$$

where  $L$  is a linear differential operator,  $v$  is the dependent variable, and  $f$  is a given non-zero function of the independent variables alone.