

# The mdframed package

Examples for framemethod=PSTricks

Marco Daniel

v1.2

2012/01/08

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

## Contents

1	Loading	1	Example 2 – hidden line + frame title . . . . .	2
2	Examples	1	Example 3 – Dash Lines . . . . .	3
	Example 1 – very simple . . . . .	2	Example 4 – Double Lines . . . . .	3

## 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 ,
  frametitulerule=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.