

# The mdframed package

Examples for framemethod=PSTricks

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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 , \linewidth=3pt , %
  \leftmargin=1cm , \rightmargin=1cm
}
\begin{mdframed}[style=exampledefault , roundcorner=5]
\ExampleText
\end{mdframed}

```

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \tag{1}$$

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 }
\begin{mdframed}[style=exampledefault , frametitle={Inhomogeneous linear}]
\ExampleText
\end{mdframed}

```

**Inhomogeneous linear**

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \tag{2}$$

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

$$L[v] = f, \quad (3)$$

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=3pt},
  linecolor=red, linewidth=5pt}
\begin{mdframed}[style=exampledefault,]
\ExampleText
\end{mdframed}
```

An *inhomogeneous linear* differential equation has the form

$$L[v] = f, \quad (4)$$

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.