

# The **mdframed** package

Examples for **framemethod=PS Tricks**

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In this document I collect various examples for **framemethod=PS Tricks**. 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=PS Tricks** is loaded. All other modifications will be done by **\mdfdefinestyle** or **\mdfsetup**.

### Note

Every **\global** inside the examples is necessary to work with my own created environment **tltxmdfexample\***.

## 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={\addtopstyle{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**

[morekeywords=pstrickssetting,linestyle,dashed]

```
\global\mdfdefinestyle{exampledefault}{%
```

```

pstrickssetting={linestyle=dashed,},linecolor=red,middlelinewidth=2pt}
\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}{%
  pstricksappsetting={\addtopsstyle{mdfmiddlelinestyle}{%
    doubleline=true,doublesep=6pt,linewidth=4pt}},%
  linecolor=red,middlelinewidth=16pt}
\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.

### Example 5 – Shadow frame

```

\newmdenv[shadow=true,
  shadowsize=11pt,
  linewidth=8pt,
  frametitlerule=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.