

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.

Contents

1 Loading	1	Example 2 – hidden line + frame title	2
		Example 3 – Dash Lines	3
2 Examples	1	Example 4 – Double Lines	3
Example 1 – very simple	2	Example 5 – Shadow frame	4

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 the package **showexpl**.

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=rule=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

```
[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.