

PSTricks - version 1.11

new macros and bugfixes for pstricks

Herbert Voß*

September 19, 2005

Abstract

This new version of `pstricks.tex` depends on the also new prologue file `pstricks.pro` (v 1.00), which should go into the local \TeX -directory `$TEXMFLOCAL/dvips/`.

Contents

1	New macro names	1
2	New fill options	2
3	Other changes	4

1 New macro names

In general PSTricks uses macronames with a preceding `ps` to prevent clashes with other packages. However, some macros have names without the `ps` and these ones have now new names:

```
\scalebox    -> \psscalebox
\scaleboxto  -> \psscaleboxto
\rotateleft  -> \psrotateleft
\rotateright -> \psrotateright
\rotatedown  -> \psrotatedown
```

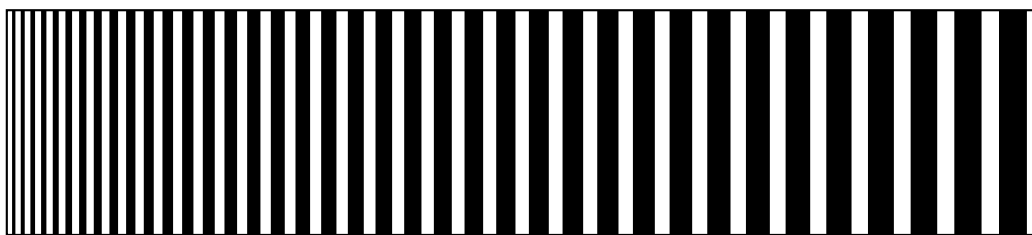
*Herbert.Voss@perce.de

The first change is important, because there were a lot of problems in the past; `graphicx` also defines a `scalebox` but with different syntax.

2 New fill options

For the fillstyles `hlines`, `vlines` and `crosshatch` there are two new options to get increasing line widths and/or increasing whitespace. Both options are lengths and can be set as usual for PSTricks, with or without a unit.

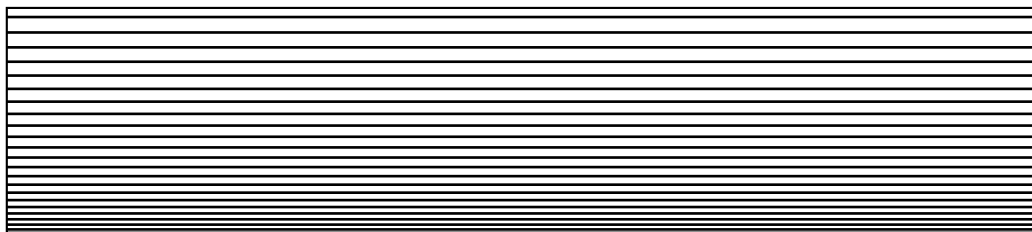
<i>name</i>	<i>meaning</i>	<i>default</i>
<code>hatchsepinc</code>	additional increasing space between two hatch lines	0
<code>hatchwidthinc</code>	value for the increasing line width of two hatch lines	0



```

1 \begin{pspicture}(\linewidth,3)
2   \psframe[fillstyle=vlines,hatchangle=0,hatchsep=.5pt,%
3     hatchwidth=1pt,hatchwidthinc=0.25pt](\linewidth,3)
4 \end{pspicture}

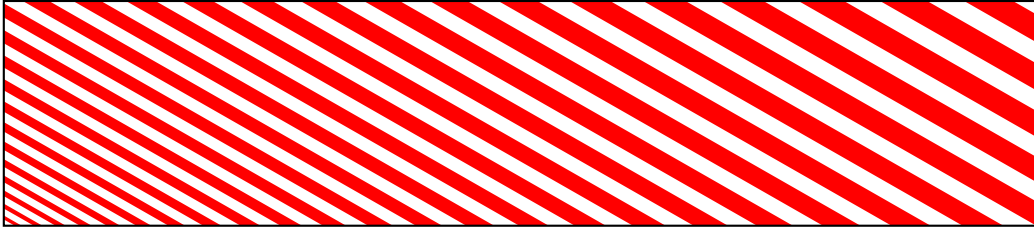
```



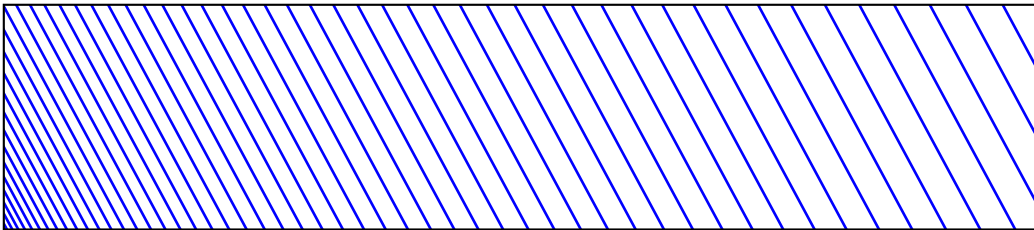
```

1 \begin{pspicture}(\linewidth,3)
2   \psframe[fillstyle=hlines,hatchangle=0,%
3     hatchwidth=1pt,hatchsep=0.5pt,hatchsepinc=0.1pt](\linewidth,3)
4 \end{pspicture}

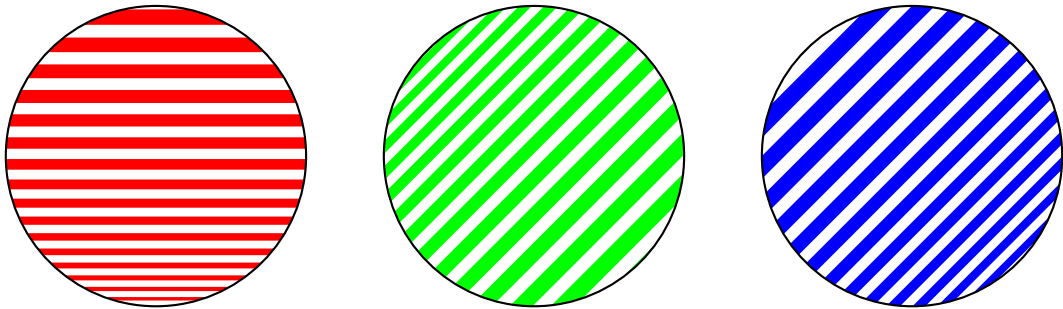
```



```
1 \begin{pspicture}(\linewidth,3)  
2   \psframe[fillstyle=vlines,hatchangle=0,hatchsep=0.6pt,%  
3     hatchwidth=1pt,hatchwidthinc=0.3pt,hatchangle=60,  
4     hatchcolor=red](\linewidth,3)  
5 \end{pspicture}
```



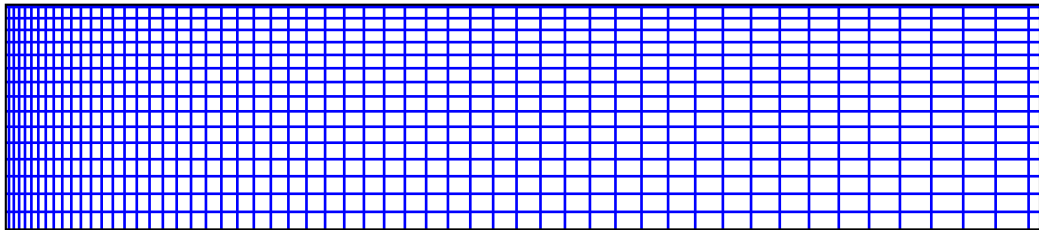
```
1 \begin{pspicture}(\linewidth,3)  
2   \psframe[fillstyle=hlines,hatchangle=0,hatchangle=-60,%  
3     hatchwidth=1pt,hatchsep=0.5pt,hatchsepinc=0.1pt,  
4     hatchcolor=blue](\linewidth,3)  
5 \end{pspicture}
```



```

1 \begin{pspicture}(\linewidth,4)
2   \pscircle[fillstyle=vlines,hatchangle=0,hatchsep=0.6pt,%
3     hatchwidth=1pt,hatchwidthinc=0.3pt,hatchangle=90,
4     hatchcolor=red](2,2){2}
5   \pscircle[fillstyle=vlines,hatchangle=0,hatchsep=0.6pt,%
6     hatchwidth=1pt,hatchwidthinc=0.3pt,hatchangle=-45,
7     hatchcolor=green](7,2){2}
8   \pscircle[fillstyle=hlines,hatchangle=0,hatchsep=0.6pt,%
9     hatchwidth=1pt,hatchwidthinc=0.3pt,hatchangle=45,
10    hatchcolor=blue](12,2){2}
11 \end{pspicture}

```



```

1 \begin{pspicture}(\linewidth,3)
2   \psframe[fillstyle=crosshatch,hatchangle=0,hatchangle=-90,%
3     hatchwidth=1pt,hatchsep=0.5pt,hatchsepinc=0.1pt,
4     hatchcolor=blue](\linewidth,3)
5 \end{pspicture}

```

3 Other changes

`pstricks.tex` defined the PostScript subroutines for arcs of an ellipse. This code now moved into the appropriate `pstricks.pro`, which holds the pure PostScript code of `PSTricks`. This is not important for user until the newest `pstricks.pro` and `pstricks.tex` are installed.