

PSTricks

News - 2014

new macros and bugfixes for the basic package pstricks

January 16, 2014

2014

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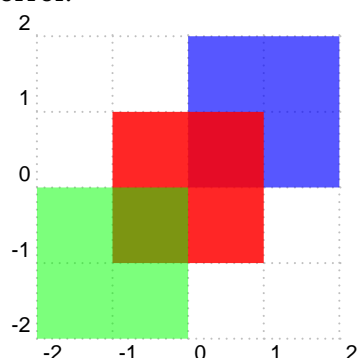
Part I.

pstricks – package

1. pstricks.tex (2.50– 2014/01/16)

1.1. PostScript notation for numbers

Optional arguments which expects a real number can now have a preceeding ! character for a PostScript notation which is directly passed to PostScript. The user has take care that such a number isn't use before in another \TeX macro. In such a case it gives an error.



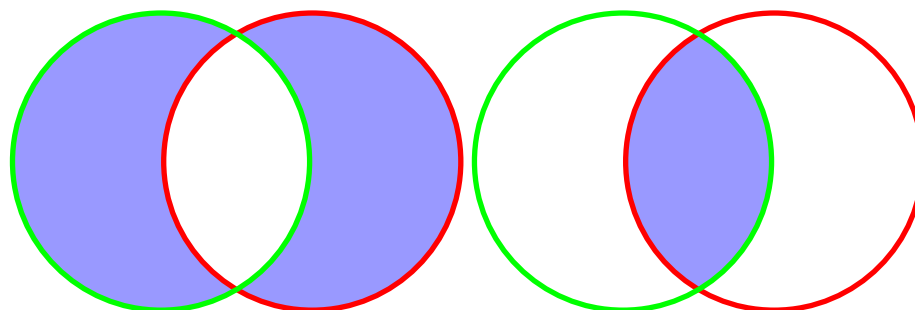
```

1 \pstVerb{ 1234321 srand }
2 \begin{pspicture}[showgrid](-2,-2)(2,2)
3 \psframe*[linecolor=blue,opacity=!Rand](2,2)
4 \psframe*[linecolor=red,opacity=!Rand](-1,-1)
5 \psframe*[linecolor=green,opacity=!Rand](-2,-2)
6 \end{pspicture}

```

1.2. Fillstyle eofill

It is an experimental fillstyle. PostScript knows only the eofill and the other way round needs some tricky internal commands and may not work in all cases.



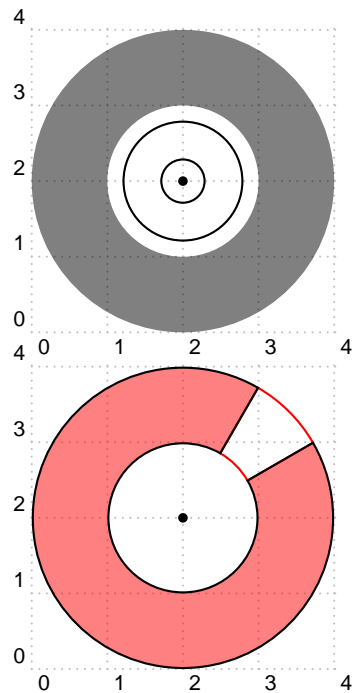
```

1 \begin{pspicture}[linewidth=2pt](12,4)
2 \pscustom[linestyle=none,fillstyle=eofill,fillcolor=blue!40]{%
3 \psellipse(4,2)(2,2)\psellipse(2,2)(2,2)}
4 \psellipse[linecolor=red](4,2)(2,2)
5 \psellipse[linecolor=green](2,2)(2,2)
6 %
7 \pscustom[linestyle=none,fillstyle=eofill,fillcolor=blue!40]{%
8 \psellipse(10,2)(2,2)\psellipse(8,2)(2,2)}
9 \psellipse[linecolor=red](10,2)(2,2)
10 \psellipse[linecolor=green](8,2)(2,2)
11 \end{pspicture}

```

1.3. New macro \psRing

`\psRing *` `[Options]` (x,y) `[start,end]` $\{Inner\ Radius\}\{Outer\ Radius\}$



```
1 \begin{pspicture}[showgrid](4,4)
2   \psRing(2,2){0.3}{0.8}
3   \psRing*[opacity=0.5](2,2){1}{2}
4   \psdot(2,2)
5 \end{pspicture}
```

```
1 \begin{pspicture}[showgrid](4,4)
2   \psRing[linecolor=red](2,2)[30,60]{1}{2}
3   \psRing[opacity=0.5,fillstyle=solid,
4     fillcolor=red](2,2)[60,30]{1}{2}
5   \psdot(2,2)
6 \end{pspicture}
```

References

- [1] Michel Goossens, Frank Mittelbach, Sebastian Rahtz, Denis Roegel, and Herbert Voß. *The L^AT_EX Graphics Companion*. Addison-Wesley Publishing Company, Reading, Mass., 2007.
- [2] Laura E. Jackson and Herbert Voß. Die Plot-Funktionen von pst-plot. *Die T_EXnische Komödie*, 2/02:27–34, June 2002.
- [3] Nikolai G. Kollock. *PostScript richtig eingesetzt: vom Konzept zum praktischen Einsatz*. IWT, Vaterstetten, 1989.
- [4] Herbert Voß. Die mathematischen Funktionen von Postscript. *Die T_EXnische Komödie*, 1/02:40–47, March 2002.
- [5] Herbert Voss. *PSTricks Support for pdf*. <http://PSTricks.tug.org/main.cgi?file=pdf/pdfoutput>, 2002.
- [6] Herbert Voß. *L^AT_EX Referenz*. DANTE – lehmanns media, Heidelberg/Hamburg, 2. edition, 2010.
- [7] Herbert Voß. *PSTricks – Grafik für T_EX und L^AT_EX*. DANTE – Lehmanns Media, Heidelberg/Hamburg, 6. edition, 2010.
- [8] Herbert Voß. *L^AT_EX Quick Reference*. UIT, Cambridge/UK, 1. edition, 2011.
- [9] Herbert Voß. *PSTricks – Graphics for L^AT_EX*. UIT, Cambridge/UK, 1. edition, 2011.
- [10] Michael Wiedmann and Peter Karp. *References for T_EX and Friends*. <http://www.miwie.org/tex-refs/>, 2003.

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