PSTricks

pst-ovl

Helper functions for overlays; v.0.08

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1 Overlays

Overlays are mainly of interest for making slides, and the overlay macros described in this section are mainly of interest to TEX macro writers who want to implement overlays in a slide macro package. For example, the `seminar` package, a LATEX style for notes and slides, uses PSTricks to implement overlays.

Overlays are made by creating an "'`\hbox`"' and then outputting the box several times, printing different material in the box each time. The box is created by the commands

```
\Lcs{psoverlaybox} < stuff >\Lcs{endpsoverlaybox}
```

LATEX users can instead write:

```
\begin{psoverlaybox} <stuff> \end{psoverlaybox}
```

The material for overlay `<number>` should go within the scope of the command

`\psoverlay{`*number*`}`

`<number>` can be any any number, after expansion. Anything not in the scope of any `\psoverlay` command goes on overlay "'0"', and material within the scope of `\psoverlay{-1}` goes on all the overlays. `\psoverlay` commands can be nested and can be used in math mode. The command

`\putoverlaybox{`*number*`}`

then prints overlay `<number>`. Here is an example:

Foam Cups Damage Environment

Study Says.

Less than Paper Cups,

```
\psoverlaybox
\psoverlay{-1}
\psframebox[framearc=.15,linewidth=1.5pt]{%
  \psoverlay{0}
  \parbox{3.5cm}{\raggedright
    Foam Cups Damage Environment {\psoverlay{1} Less than
    Paper Cups,} Study Says.}}
 \endpsoverlaybox

\psputoverlaybox{0} \hspace{.5in} \psputoverlaybox{1}
```

It is possible to define macros which hold the numbers:

Foam Cups Damage Environment

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```
\def\all{-1} \def\main{0} \def\one{1}
\psoverlaybox
\psoverlay{\all}
\psframebox[framearc=.15,linewidth=1.5pt]{%
  \psoverlay{\main}
  \parbox{3.5cm}{\raggedright
    Foam Cups Damage Environment {\psoverlay{\one} Less than
    Paper Cups,} Study Says.}}
 \endpsoverlaybox

\psputoverlaybox{\main} \hspace{.5in} \psputoverlaybox{\one}
```

2 List of all optional arguments for pst-ovl

Key	Type	Default

References

[1] Denis Girou. Présentation de PSTricks. *Cahier GUTenberg*, 16:21–70, April 1994.

[2] Michel Goosens, Frank Mittelbach, Sebastian Rahtz, Denis Roegel, and Herbert Voß. *The LaTeX Graphics Companion*. Addison-Wesley Publishing Company, Reading, Mass., 2007.

[3] Laura E. Jackson and Herbert Voß. Die Plot-Funktionen von pst-plot. *Die TeXnische Komödie*, 2/02:27–34, June 2002.

[4] Nikolai G. Kollock. *PostScript richtig eingesetzt: vom Konzept zum praktischen Einsatz*. IWT, Vaterstetten, 1989.

[5] Herbert Voß. *Chaos und Fraktale selbst programmieren: von Mandelbrotmengen über Farbmanipulationen zur perfekten Darstellung*. Franzis Verlag, Poing, 1994.

[6] Herbert Voß. Die mathematischen Funktionen von PostScript. *Die TeXnische Komödie*, 1/02, March 2002.

[7] Herbert Voß. *PSTricks – Grafik für TeX und LaTeX*. DANTE – Lehmanns, Heidelberg/Berlin, 6. edition, 2010.

[8] Herbert Voß. *Typesetting mathematics with LaTeX*. UIT, Cambridge, 2010.

[9] Herbert Voß. *PSTricks – Graphics for TeX and LaTeX*. UIT, Cambridge, 2011.

[10] Eric Weisstein. *Wolfram MathWorld*. http://mathworld.wolfram.com, 2007.

[11] Timothy van Zandt. *PSTricks - PostScript macros for generic TeX*. http://www.tug.org/application/PSTricks, 1993.

[12] Timothy van Zandt. *multido.tex - a loop macro, that supports fixed-point addition*. CTAN:/graphics/pstricks/generic/multido.tex, 1997.

[13] Timothy van Zandt. *pst-plot: Plotting two dimensional functions and data*. CTAN:graphics/pstricks/generic/pst-plot.tex, 1999.

[14] Timothy van Zandt and Denis Girou. Inside PSTricks. *TUGboat*, 15:239–246, September 1994.

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