

pst-ovl

Helper functions for overlays; v.0.07b

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April 19, 2023

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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

```
\psoverlaybox < stuff >\endpsoverlaybox
```

\LaTeX users can instead write:

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

The material for overlay $\langle number \rangle$ should go within the scope of the command

```
\psoverlay{number}
```

$\langle number \rangle$ 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 $\langle number \rangle$. 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

Study Says.

Less
than Paper Cups,

```
\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}
```

References

- [1] Denis Girou. “Présentation de PSTricks”. in *Cahier GUTenberg*: 16 (april 1994), pages 21–70.
- [2] Michel Goosens **and others**. *The L^AT_EX Graphics Companion*. Reading, Mass.: Addison-Wesley Publishing Company, 2007.
- [3] Laura E. Jackson **and** Herbert Voß. “Die Plot-Funktionen von pst-plot”. in *Die T_EXnische Komödie*: 2/02 (june 2002), pages 27–34.
- [4] Nikolai G. Kollock. *PostScript richtig eingesetzt: vom Konzept zum praktischen Einsatz*. Vaterstetten: IWT, 1989.

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- [5] Herbert Voß. “Die mathematischen Funktionen von PostScript”. in *Die T_EXnische Komödie*: 1/02 (**march** 2002).
- [6] Herbert Voß. *PSTricks – Grafik für T_EX und L_AT_EX*. 6. Heidelberg/Berlin: DANTE – Lehmanns, 2010.
- [7] Herbert Voß. *PSTricks – Graphics for T_EX and L_AT_EX*. Cambridge: UIT, 2011.
- [8] Herbert Voß. *Typesetting mathematics with L_AT_EX*. Cambridge: UIT, 2010.
- [9] Eric Weisstein. *Wolfram MathWorld*. 2007.
- [10] Timothy van Zandt. *PSTricks - PostScript macros for generic T_EX*. 1993.
- [11] Timothy van Zandt **and** Denis Girou. “Inside PSTricks”. in *TUGboat*: 15 (**september** 1994), **pages** 239–246.

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