

PSTricks

News - 2010

new macros and bugfixes for the basic package pstricks

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Part I.

pstricks – package

1. General

There exists a new document class `pst-doc` for writing PSTricks documentations, like this news document. It depends on the KOMA-Script document class `scrartcl`. `pst-doc` defines a lot of special macros to create a good index. Take one of the already existing package documentation and look into the source file. Then it will be easy to understand, how all these macros have to be used.

When running `pdflatex` the title page is created with boxes and inserted with the macro `\AddToShipoutPicture` from the package `eso-pic`. It inserts the background title page image `pst-doc-pdf` to use directly `pdflatex`. When running `latex` the title page is created with PSTricks macros. This allows to use the Perl script `pst2pdf` or the package `pst-pdf` or `auto-pst-pdf` or any other program/package which supports PostScript code in the document.

2. pstricks.sty

2.1. New optional argument

3. pstricks.tex (2.19– 2011/03/25)

3.1. Macro `\psLoop`

PSTricks already knows `\psforeach` and `\psForeach` for loops. The new macro `\psLoop` 2.17 allows a loop without defining a variable:

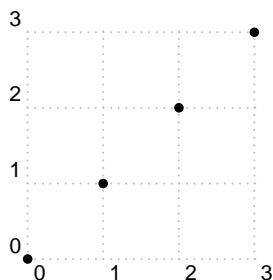
```
\psLoop{n}{argument}
```

However, the internal TeX counter `psLoopIndex` can be used for own purposes.

PSTricks PSTricks PSTricks PSTricks

PSTricks	PSTricks	PSTricks	
A	B	C	D

```
1 \psLoop{4}{PSTricks }
1 \tabular{|c|c|c|c|}
2 \psLoop{3}{PSTricks &}\hline
3 A & B & C & D\hline
4 \endtabular
```



```
1 \begin{pspicture}[showgrid](3,3)
2 \psLoop{4}{%
3 \psdots(\the\psLoopIndex,\the\psLoopIndex)}
4 \end{pspicture}
```

4. The PostScript header files

4.1. pstricks.pro

4.2. pst-algpaser.pro

5. \psforeach and \psForeach

6. List of all optional arguments for pstricks

Key	Type	Default
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References

- [1] Michel Goossens, Frank Mittelbach, Sebastian Raetz, 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.de/pdf/pdfoutput.phtml>, 2002.
- [6] Herbert Voß. *L^AT_EX Referenz*. DANTE – Lehmanns, Heidelberg/Hamburg, 1. edition, 2007.
- [7] Herbert Voß. *PSTricks – Grafik für T_EX und L^AT_EX*. DANTE – Lehmanns Media, Heidelberg/Hamburg, 5. edition, 2008.
- [8] Michael Wiedmann and Peter Karp. *References for T_EX and Friends*. <http://www.miwie.org/tex-refs/>, 2003.

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