PSTricks - 2006

new macros and bugfixes for the basic packages \pstricks, \pst-tree, and \pst-node

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Abstract

This new version of pstricks.tex depends on the also new prologue file pstricks.pro (v 1.01) and pst-dots.pro (v. 2.00), which should go into the local T_FX-directory \$TEXMFLOCAL/dvips/.

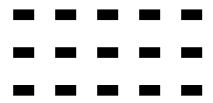
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1 linecap

This was already introduced with version 1.14, but I forgot to mentioned it. For the line ends one can use the "arrows" c-c, but only for the ends. For dashed lines the option linecap can be set to the value 1 to get the dashes with rounded ends, too.



```
begin{pspicture}(5,3)
psline[linestyle=dashed,linewidth=8pt,dash=5mm 5mm,linecap
=2](0,2.5)(5,2.5)

psline[linestyle=dashed,linewidth=8pt,dash=5mm 5mm,linecap
=1](0,1.5)(5,1.5)

psline[linestyle=dashed,linewidth=8pt,dash=5mm 5mm](0,0.5)(5,0.5)
end{pspicture}
```

It is obvious that only the value 1 makes sense for the dashed lines.

2 Dots

Long time ago, Etienne Riga sent the code for some new dotstyles which are now part of pstricks.

| Name | \psdot | \psdot* | Name | \psdot | \psdot* |
|---------------|--------|---------|--------------|----------------------------|----------------------------|
| * | • • • | • • • | 0 | 0 0 0 | • • • |
| Во | 0 0 0 | • • • | x | \times \times \times | \times \times \times |
| + | + + + | + + + | B+ | + + + | + + + |
| Add | + + + | + + + | BoldAdd | + + + | + + + |
| Oplus | ⊕ ⊕ ⊕ | • • • | BoldOplus | $\oplus \oplus \oplus$ | • • • |
| SolidOplus | • • • | • • • | Hexagon | 000 | • • • |
| BoldHexagon | 000 | • • • | SolidHexagon | • • • | • • • |
| asterisk | * * * | * * * | Basterisk | * * * | * * * |
| Asterisk | * * * | * * * | BoldAsterisk | * * * | * * * |
| SolidAsterisk | 8 8 8 | • • • | oplus | \oplus \oplus \oplus | \oplus \oplus \oplus |

| Name | \psdot | \psdot* | Name | \psdot | \psdot* |
|-----------------------|-------------------------------------|----------------------------|--------------|-------------------------------------|--------------|
| otimes | ⊗ ⊗ ⊗ | ⊗ ⊗ ⊗ | Otimes | \otimes \otimes \otimes | • • • |
| BoldOtimes | ⊗ ⊗ ⊗ | • • • | SolidOtimes | 8 8 8 | • • • |
| Mul | \times \times \times | \times \times \times | BoldMul | × × × | × × × |
| | 1 1 1 | 1.1.1 | ВІ | 111 | 1.1.1 |
| Bar | | | BoldBar | 1 1 1 | 1 1 1 |
| Bullet | • • • | • • • | Circle | 000 | • • • |
| BoldCircle | 0 0 0 | • • • | square | | |
| Bsquare | | | square* | | |
| Square | | | BoldSquare | | |
| SolidSquare | | | diamond | \Diamond \Diamond \Diamond | * * * |
| Bdiamond | \Diamond \Diamond \Diamond | * * * | diamond* | * * * | * * * |
| Diamond | \Diamond \Diamond \Diamond | * * * | BoldDiamond | \Diamond \Diamond \Diamond | * * * |
| SolidDiamond | * * * | * * * | triangle | \triangle \triangle \triangle | A A A |
| Btriangle | ΔΔΔ | A A A | triangle* | A A A | A A A |
| Triangle | \triangle \triangle \triangle | A A A | BoldTriangle | ΔΔΔ | A A A |
| ${\tt SolidTriangle}$ | A A A | A A A | pentagon | $\circ \circ \circ$ | • • • |
| Bpentagon | $\circ \circ \circ$ | • • • | pentagon* | • • • | • • • |
| Pentagon | $\circ \circ \circ$ | • • • | BoldPentagon | 000 | • • • |
| ${\tt SolidPentagon}$ | • • • | • • • | Hexagon | 000 | • • • |
| BoldHexagon | 000 | • • • | SolidHexagon | • • • | • • • |

3 pstricks.pro

The PostScript header file defines the following functions and constants, which can be used in arguments for \psplot or any other macro, which reads PostScript code.

4 Packages

The package pst-char is now part of pst-text and the package pst-ghsb is now part of pst-grad. The macros and environments will work in the same way.

The documented source code of pstricks and pst-node is now available as a pdf file with a source which can be run by pdflateX. Rolf Niepraschk modified the old sources from Timothy Van Zandt for running with LateX and/or pdflateX.