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## **News -- 2025**

**new macros and bugfixes for the basic package.**

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## Part I.

### pstricks – package

#### 1. pstricks.sty

Modified check for a wrong  $\text{\LaTeX}$ -doc filename pstricks.tex. The old one was broken.

#### 2. pstricks.tex (v. 3.22 – 2025/06/11)

Modified pspicture environment to allow optional arguments which are set at the beginning of the environment:

Before:

```
\psset{unit=3cm}%    local to \subfloat
\begin{pspicture}(0,0)(3,3)
  \psgrid[subgriddiv=3, gridlabels=0](0,0)(3,3)
\end{pspicture}
```






Now:

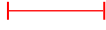























```
\begin{pspicture}[unit=3cm](0,0)(3,3)
  \psgrid[subgriddiv=3, gridlabels=0](0,0)(3,3)
\end{pspicture}
```

#### 3. Lua $\text{\LaTeX}$

This version has a stable basic support for the lua package luapstricks.lua, available from <https://github.com/zauguin/luapstricks>. This is also part of every MiK $\text{\TeX}$  or T $\text{\E}$ XLive installation. This documentation was run with lualatex, which creates directly the pdf. No GhostScript needed.

Example:

Value	Example	Name
-		None
<->		Arrowheads.
>-<		Reverse arrowheads.
<<->>		Double arrowheads.
>>-<<		Double reverse arrowheads.

-		T-bars, flush to endpoints.
* -  *		T-bars, centered on endpoints.
[ - ]		Square brackets.
] - [		Reversed square brackets.
( - )		Rounded brackets.
) - (		Reversed rounded brackets.
o - o		Circles, centered on endpoints.
* - *		Disks, centered on endpoints.
oo - oo		Circles, flush to endpoints.
** - **		Disks, flush to endpoints.
< - >		T-bars and arrows.
> - <		T-bars and reverse arrows.
h - h		left/right hook arrows.
H - H		left/right hook arrows.
v - v		left/right inside vee arrows.
V - V		left/right outside vee arrows.
f - f		left/right inside filled arrows.
F - F		left/right outside filled arrows.
t - t		left/right inside slash arrows.
T - T		left/right outside slash arrows.
<D - D>		curved arrows.
<D<D - D>D>		curved doubled arrows.
D> - <D		curved arrows, tip inside.
<T - T>		curved lines.

## References

- [1] Michel Goossens et al. *The L<sup>A</sup>T<sub>E</sub>X Graphics Companion*. 2nd ed. Reading, Mass.: Addison-Wesley Publishing Company, 2007.
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- [3] Nikolai G. Kollock. *PostScript richtig eingesetzt: vom Konzept zum praktischen Einsatz*. Vaterstetten: IWT, 1989.
- [4] Herbert Voß. “Die mathematischen Funktionen von Postscript”. In: *DTK* 1/02 (Mar. 2002), pp. 40–47.
- [5] Herbert Voß. *PSTricks – Grafik für T<sub>E</sub>X und L<sup>A</sup>T<sub>E</sub>X*. 7th ed. Heidelberg and Berlin: DANTE – Lehmanns Media, 2016.
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- [7] Herbert Voß. *PSTricks Support for pdf*. 2002. URL: <http://PSTricks.tug.org/main.cgi?file=pdf/pdfoutput>.
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- [9] Herbert Voß. *L<sup>A</sup>T<sub>E</sub>X Referenz*. 3rd ed. Heidelberg and Berlin: DANTE – lehmanns media, 2014.
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