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## **News -- 2024**

**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. 3.19c – 2024/02/02)

Added a test for `lua $\text{\LaTeX}$`  before the default linewidth and color are set. See last line in pstricks.tex  
 Moved macro `\clipbox` to `\psclipbox` to prevent a clash with package `adjustbox` from Martin Scharer.

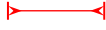



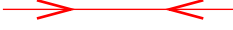

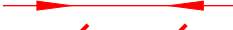






#### 3. Lua $\text{\TeX}$

This version has a stable basic support for the lua package `lua $\text{\LaTeX}$` .lua, available from <https://github.com/zauguin/luapstricks>. This is also part of every  $\text{\MiKTeX}$  or  $\text{\TeX}$ Live installation. This documentation was run with `lua $\text{\LaTeX}$` , 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.

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>-<		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.

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## 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.
- [2] Laura E. Jackson and Herbert Voß. “Die Plot-Funktionen von `pst-plot`”. In: *DTK 2/02* (June 2002), pp. 27–34.
- [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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