

# PSTricks

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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










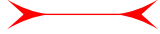

#### 3. Lua $\text{\TeX}$

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 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.              |
| >-<     |         | T-bars and reverse arrows.      |
| h - h   |         | left/right hook arrows.         |

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|           |   |                                   |
|-----------|---|-----------------------------------|
| 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.
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- [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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