

PSTricks

News – 2021

new macros and bugfixes for the basic package.

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Part I.

pstricks – package

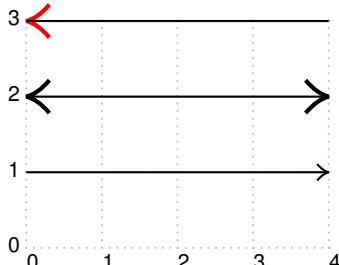
1. pstricks.sty

The optional argument `gsfonts` can be used to load only the symbol font from GhostScript. Otherwise the one from URW or the system is used, which is the default.

2. pstricks.tex (v. 3.03 – 2021/08/23)

2.1. Arrows

There are new arrow types and a new optional argument `tipcolor`:



```
\begin{pspicture}[showgrid](4.2,3.25)
\psline{-T}(0,1)(4,1)
\psline[arrowscale=2]{<T-T>}(0,2)(4,2)
\psline[tipcolor=red,arrowscale=2]{<T-}(0,3)(4,3)
\end{pspicture}
```

`pstricks` defines the following "arrows":

| 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. |

With version 3.04 all arrow specific base code is moved to the file `pstricks-arrows`, which is not of interest for the default user..

2.2. Symbolfont

Use by default the URW or system symbol font for `\psdot`. This can be changes by using the optional argument `gsfonts`:

```
\usepackage[gsfonts]{pstricks}
```

\TeX -users have to define the switch and

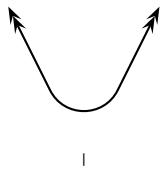
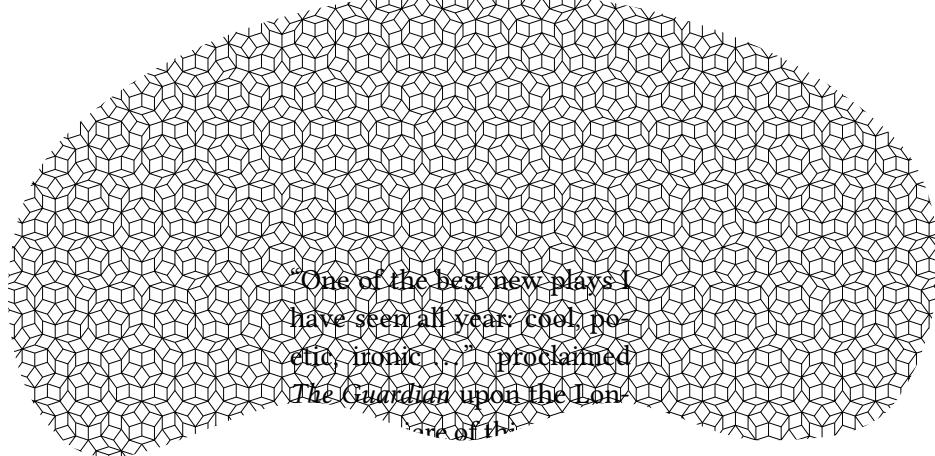
```
\newif\ifpstGSfonts
\pstGSfontsfals % or true for using GS font
```

```
\input pstricks
```

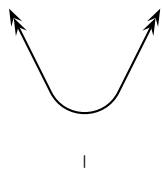
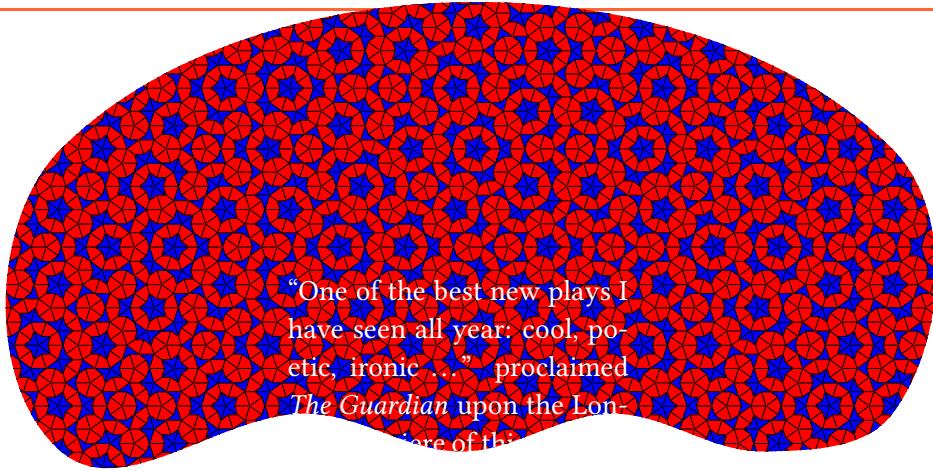
```
...
```

2.3. Fillstyle penrose

There was a bug if this fillstyle was used together with a line sequence.



```
\pspicture[showgrid=false](-0.5\linewidth,-4.5)(0.5\linewidth,5)
\rput(0,0){\parbox{4.5cm}{%
\psclip{\psccurve[linestyle=none,fillstyle=penrose,psscale=.2](-3,-2)
(0.3,-1.5)(2.3,-2)(4.3,-1.5)(6.3,-2)(8,-1.5)(8,2)(-3,2)}
‘One of the best new plays I have seen all year: cool, poetic,
ironic \ldots’ proclaimed \emph{The Guardian} upon the London
premiere of this extraordinary play about a Czech director and
his actress wife, confronting exile in America.
\endpsclip}%
\psline[linearc=0.5cm,showpoints=true,dotstyle=|]{<<->>} (-1,-2)(0,-4)(1,-2)
\endpspicture
```



```
\pspicture[showgrid=false](-0.5\linewidth,-4.5)(0.5\linewidth,5)
\rput(0,0){\parbox{4.5cm}{%
\psclip{\psccurve*[linestyle=none,fillstyle=penrose,psscale=.2]{-3,-2}(0.3,-1.5)(2.3,-2)(4.3,-1.5)(6.3,-2)(8,-1.5)(8,2)(-3,2)}\color{white}
‘‘One of the best new plays I have seen all year: cool, poetic,
ironic \ldots’’ proclaimed \emph{The Guardian} upon the London
premiere of this extraordinary play about a Czech director and
his actress wife, confronting exile in America.
\endpsclip}}%
\psline[linearc=0.5cm,showpoints=true,dotstyle=|]{<<->>}(-1,-2)(0,-4)(1,-2)
\endpspicture
```

References

- [1] Michel Goosens et al. *The L^AT_EX Graphics Companion*. 2nd ed. Reading, Mass.: Addison-Wesley Publishing Company, 2007.
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