

News - 2019

new macros and bugfixes for the basic package pstricks

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January 10, 2019

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Part I.

pstricks – package

1. pstricks.sty – pstricks-pdf.sty

There is now a new optional argument for the package: ckeckengine, which will be used in later versions.

2. pstricks-tex.tex

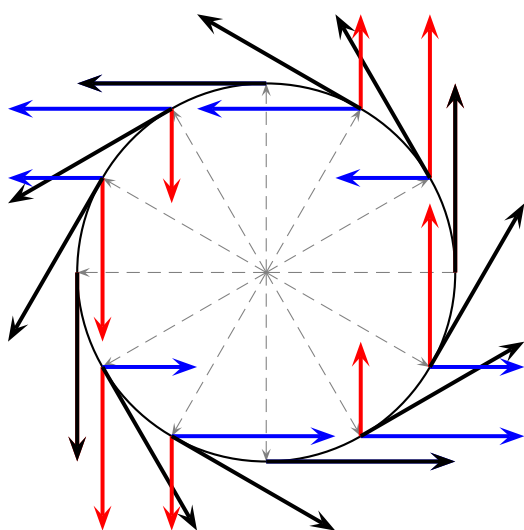
This package collects all additional latex macros which must be defined when running PSTricks with tex. They all moved from the base pstricks.tex into this new file.

3. pstricks.tex (v. 2.94 – 2019/01/07)

There is a new macro called `\psLine` (uppercase L!) which can have only one or two pairs of coordinates. Remember that `\psline` can have more. With `\psLine` and an defined arrow you'll get nothing for something like `\psLine{->}{1,1}(1,1)`, whereas `\psline` will output the arrowtip! This behaviour of `\psLine` maybe helpful for animations where a speedvector or a vector is shown with its components and one do not really knows the coordinates.

<code>\psLine</code>	<code>[Options]</code>	<code>[{x_0, y_0}]</code>	<code>{x_1, y_1}</code>
----------------------	------------------------	--	--------------------------------------

If P_0 is missing, then $(0,0)$ as first point is assumed.



```
\psset{unit=2.5cm}
\begin{pspicture}(-1,-1)(1,1)
\degrees[12]
\pscircle{1}
\multido{\iA=0+1,\iB=3+1}{12}{%
\pnode(1;\iA){R}
\psLine[linecolor=gray,linestyle=dashed,
linewidth=0.4pt](R)
\psset{arrows=->,arrowscale=1.5,linewidth=1.5pt}
\rput(R){%
\psLine[linecolor=blue]({1;\iB}|0,0)
\psLine[linecolor=red](0,0|{1;\iB})
\psLine(1;\iB)}%
}
\end{pspicture}
```

3.1. Error message

Using PSTricks with `pdflatex` will work only when using package `auto-pst-pdf` and running the \TeX -file with

`pdflatex -shell-escape <file>`

otherwise you'll get an error message which was misleading in the past:

```
[...]
! Undefined control sequence.
<recently read> \c@lor@to@ps
```

This changes now to

```
[...]
! Undefined control sequence.
\c@lor@to@ps ->\PSTricks
                _Not_Configured_For_This_Format
```

3.2. Optional argument `xetex`

The output driver `xdvipdfmx` for using \TeX or \LaTeX is not fully compatible to `dvips`. Especially some node operations will not work. If the \LaTeX package detects a program run with \LaTeX it automatically loads the file `pstricks-xetex.def` which defines some macros with a new name to keep the existing ones. By now there is only `\NCput`, which is the same as `\ncput`, but works with \LaTeX .

If someone wants to use these macros though he/she runs not \LaTeX then these macros are available too by using the optional argument `xetex`:

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

4. *pstricks.pro*

References

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