

PSTricks

News - 2015

new macros and bugfixes for the basic package pstricks

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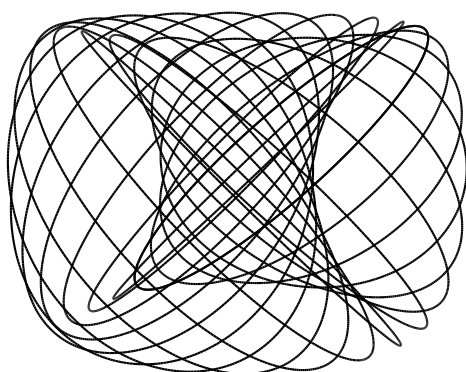
Part I.

pstricks – package

1. pstricks.tex (2.62– 2015/07/24)

1.1. PostScript code

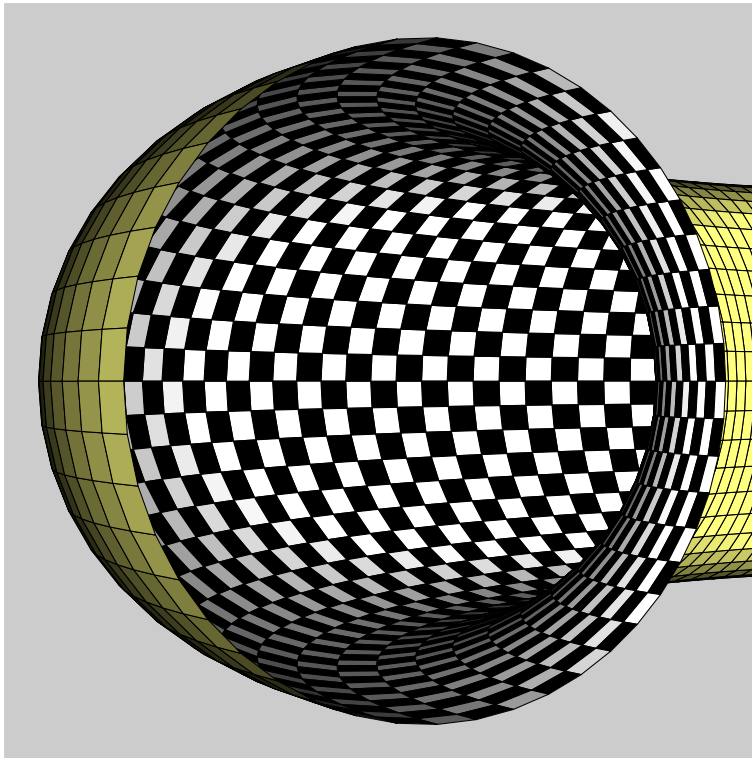
Additionally to the macro `\pstVerb` there are now the keywords `precode` and `postcode` which can be used by other packages to paste PostScript code before and after the macros.



```
\psset{viewpoint=40 35 10 rtp2xyz,Decran=40,lightsrc=viewpoint,unit=0.5}
\begin{pspicture}(-6,-6)(6,6)
\defFunction{cercle1}(t)
{4 t cos mul 2 sub rZ cos mul 4 t sin mul rZ sin mul add} %
{4 t cos mul 2 sub rZ sin mul neg 4 t sin mul rZ cos mul add}%
{4 t sin mul}%
\psforeach{\iA}{0,20,...,360}{%
\psSolid[object=courbe,
precode=/rZ \iA\space def,
r=0,range=0 360,resolution=360,function=cercle1]}
\end{pspicture}
```

1.2. Background color

There is now the optional argument `bgcolor` (background color), which is only valid for the background of the environment `pspicture` with its defined coordinates. Internally it uses the macro `\psframe*`:



```

\begin{pspicture*}[bgcolor=black!20](-12,-5)(-2,5)
\psset{viewpoint=6 -50 0 rtp2xyz,Decran=4,lightsrc=viewpoint}
\defFunction[algebraic]{torus}(u,v)
    {2*(1+ 0.5*cos(u))*cos(v)}% x=f(u,v)
    {2*(1+ 0.5*cos(u))*sin(v)}% y=f(u,v)
    {2*0.5*sin(u)}%      z=f(u)
\psSolid[object=surfaceparametree,
precode=/n1 48 def /n2 90 def /n1n2 n1 n2 mul 2 mul 1 sub def /iS 0 def,
base=0 2 pi mul 0 pi 1.5 mul ,
fcol=0 2 n1 2 sub {/i exch def
i n2 mul 2 i n2 mul n2 add 1 sub {(Black)} for} for
1 2 n1 1 sub {/i exch def i n2 mul 1 add 2 i n2 mul n2 add 1 sub {(Black)} for
} for,
fillcolor=white,incolor=yellow!50,
function=torus,
linewidth=0.5\pslinewidth,unit=5,ngrid=n1 n2]
\end{pspicture*}

```

References

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