

The `pst-light3d` package

version 0.11

A PSTricks package for three dimensional
lighten effect on characters and PSTricks
graphics*

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Abstract

This package allow to add a three dimensional lighten effect on characters (PostScript fonts), using the `PstLightThreeDText` macro, and curves (opened or closed), using the `PstLightThreeDGraphic` macro, with various customization parameters.

*Documentation revised by Herbert Voß

1 Examples

Test

```
1 \DeclareFixedFont{\Bf}{T1}{ptm}{b}{n}{3  
   cm}  
2 \PstLightThreeDText[fillstyle=solid,  
   fillcolor=white]{\Bf Test}
```

Test

```
1 \DeclareFixedFont{\Bf}{T1}{ptm}{b}{n}{3  
   cm}  
2 \PstLightThreeDText[linestyle=none,  
   fillstyle=solid, fillcolor=darkgray  
   ]{\Bf Test}
```

Test

```
1 \psset{linestyle=none,fillstyle=solid,  
   fillcolor=LightGreen}%  
2 \PstLightThreeDText[LightThreeDAngle  
   =0]{\Bf Test}\\[0.5cm]  
3 \PstLightThreeDText[LightThreeDAngle  
   =90]{\Bf Test}
```

Test

Test

```
1 \psset{linestyle=none,fillstyle=solid,  
   fillcolor=magenta,}%  
2 \PstLightThreeDText[LightThreeDXLength  
   =0.5, LightThreeDYLength=-1]{\Bf Test  
   }\[1cm]  
3 \PstLightThreeDText[LightThreeDXLength  
   =-1, LightThreeDYLength=0.5]{\Bf Test  
   }
```

123

123

```
1 \DeclareFixedFont{\Sf}{T1}{phv}{b}{n}{3  
  cm}  
2 \psset{linestyle=none,fillstyle=solid,  
  fillcolor=cyan}%  
3 \PstLightThreeDText[  
  LightThreeDColorPsCommand=1.2 div  
  setgray]{\Sf 123}\[1cm]  
4 \PstLightThreeDText[  
  LightThreeDColorPsCommand=2.5 div  
  setgray]{\Sf 123}\[1cm]
```

dante

```
1 \DeclareFixedFont{\DANTE}{OT1}{dante}{m}{n}{4cm}  
2 \psset{linestyle=none,fillstyle=solid,fillcolor=cyan}%  
3 \PstLightThreeDText[LightThreeDXLength=0.2,LightThreeDYLength=0,  
  LightThreeDColorPsCommand=%  
4 2.5 div setgray,fillcolor=yellow]{\DANTE DANTE}
```

987

987

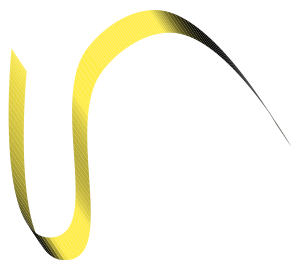
```
1 \DeclareFixedFont{\Rm}{T1}{ptm}{m}{n}{3  
  cm}  
2 \psset{linestyle=none,fillstyle=solid}%  
3 \PstLightThreeDText[fillcolor=Violet,  
  LightThreeDColorPsCommand=%  
4 2.5 div 0.7 exch 0.8 sethsbcolor]{\Rm  
  987}\[1cm]  
5 \PstLightThreeDText[fillcolor=DarkGreen  
  , LightThreeDColorPsCommand=%  
6 2 div 0.5 exch 0.2 exch sethsbcolor  
  ]{\Rm 987}
```

PSTricks

```

1 \DeclareFixedFont{\Rmb}{T1}{ptm}{m}{n}{4cm}
2 \PstLightThreeDText[linestyle=none,fillstyle=solid,fillcolor=Gold,
   LightThreeDColorPsCommand=%
3 1.2 div 0.15 exch 0.7 exch sethsbcolor]{\Rmb PSTricks}

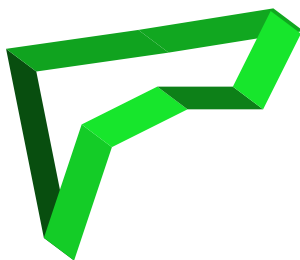
```



```

1 \psset{unit=0.5cm,linestyle=solid,fillstyle=
   none}%
2 \pspicture(-0.1,-3.5)(7.2,3)
3 \PstLightThreeDGraphic[LightThreeDXLength=0.4,
   LightThreeDColorPsCommand=%
4 1.2 div 0.15 exch 0.7 exch sethsbcolor]{%
   \pscurve(0,2)(1,-3)(2,2)(4,3)(7,0)}
5 \endpspicture
6

```



```

1 \psset{unit=0.5cm,linestyle=solid,fillstyle=
   none}%
2 \pspicture(0,-3.5)(7.7,3)
3 \PstLightThreeDGraphic[LightThreeDXLength=0.8,
   LightThreeDColorPsCommand=%
4 2 div 0.35 exch 0.9 exch sethsbcolor]{\
   pspolygon(0,2)(1,-3)(2,0)(4,1)(6,1)(7,3)}
5 \endpspicture
6

```



```

1 \psset{unit=0.5cm,linestyle=solid,fillstyle=
   none}%
2 \pspicture(0.5,-3.6)(3.8,3)
3 \PstLightThreeDGraphic[
   LightThreeDColorPsCommand=%
4 2.6 div 0.12 exch 0.7 exch sethsbcolor]{\
   psellipse(2,0)(1.5,3)}
5 \endpspicture
6

```



```

1 \SpecialCoor
2 \def\PstCoordinates{%
3 \Multido{\nDistance=0.00+0.02,\iAngle
4   =0+20}{200}{%
5   \edef\PstCoordinates{\PstCoordinates(\
6     nDistance;\iAngle)}}
7 \psset{unit=0.5cm}%
8 \pspicture(-3.8,-4)(4.1,3.7)
9 \PstLightThreeDGraphic[LightThreeDLength=0.2,
10   LightThreeDColorPsCommand=%
11   1.2 div 0.3 exch 0.7 exch sethsbcolor]{\
12   \expandafter\pscurve\PstCoordinates}
13 \endpspicture

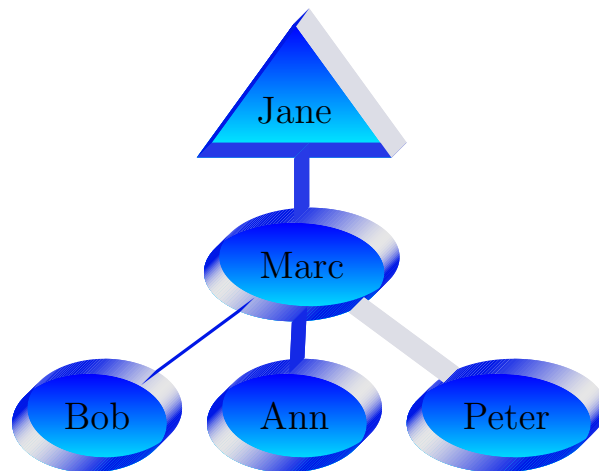
```



```

1 \SpecialCoor
2 \def\PstCoordinates{%
3 \Multido{\nDistance=0.00+0.02,\iAngle
4   =0+20}{200}{%
5   \edef\PstCoordinates{\PstCoordinates(\
6     nDistance;\iAngle)}}
7 \psset{unit=0.5cm}%
8 \pspicture(-3.8,-4)(4.1,3.7)
9 \PstLightThreeDGraphic[LightThreeDLength=0.2,
10   LightThreeDAngle=30,LightThreeDColorPsCommand
11   =%
12   /Counter Counter 0.00005 add def 2 mul
13   Counter exch 0.7 exch sethsbcolor]{%
14   \pstVerb{ /Counter 0 def }%
15   \expandafter\pscurve\PstCoordinates}
16 \endpspicture

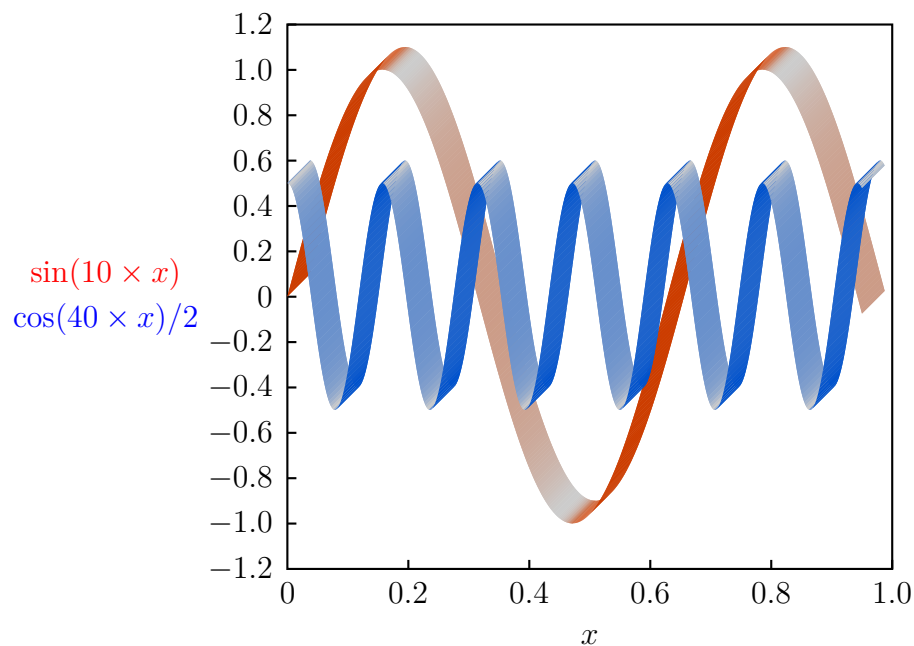
```



```

1 \PstLightThreeDGraphic[LightThreeDXLength=0.2,
2   LightThreeDYLength=-0.2,
3   LightThreeDColorPsCommand=
4   1.2 div 0.65 exch 0.9 sethsbcolor]{%
5   \large \let\TovalORIG\Toval \def\Toval#1{\TovalORIG{\raise2mm\hbox
6     {\hskip2mm#1}}}%
7   \let\TtriORIG\Ttri \def\Ttri#1{\TtriORIG{\raise3mm\hbox{#1}}}%
8   \psset{framesep=0.15,fillstyle=gradient,gradmidpoint=0, gradbegin=
9     cyan,gradend=blue}%
10  \pstree[treesep=0.5]{\Ttri{Jane}} {\psset{framesep=0.25}%
11    \pstree{\Toval{Marc}} {\Toval{Bob}\Toval{Ann}\Toval{Peter}}}}

```



```

1 \psset{xunit=8cm,yunit=3cm}%
2 \pspicture(-0.45,-1.6)(1,1.3)%
3 \psaxes[Dx=0.2,0y=-1.2,Dy=0.2,tickstyle=top, axesstyle=frame](0,-1.2)
4 (1,1.2)%
5 \psset{plotpoints=500,LightThreeDXLength=0.3, LightThreeDYLength=-0.3}%
6 \PstLightThreeDGraphic[LightThreeDColorPsCommand=1.5 div 0.05 exch 0.8
7   sethsbcolor]{%
8   \psplot{0}{0.95}{x 10 mul 57.296 mul sin}}%
9 \PstLightThreeDGraphic[LightThreeDColorPsCommand=1.5 div 0.6 exch 0.8
10  sethsbcolor]{%
11  \psplot{0}{0.95}{x 40 mul 57.296 mul cos 2 div}}%
12 \rput(-0.3,0.1){\textcolor{red}{\sin (10 \times x)}}%
13 \rput(-0.3,-0.1){\textcolor{blue}{\cos (40 \times x) / 2}}%
14 \rput(0.5,-1.5){x}%
15 \endpspicture

```

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