

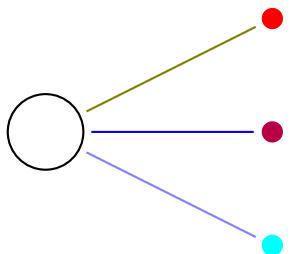
Color extensions with the `xcolor` package — `pstricks` examples

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This document is not suitable for pdflATEX! Please use L^AT_EX + dvips etc.

Figure 1: Modified version of an example from the `pstricks` manual; requires `pst-tree`



```
\begin{pspicture}(-0.5,-2)(3,2)
\cnode(0,0){.5cm}{root}
\cnode*[linecolor=red](3,1.5){4pt}{A}
\cnode*[linecolor=red!72.5375!blue](3,0){4pt}{B}
\cnode*[linecolor=-red](3,-1.5){4pt}{C}
\psset{nodesep=3pt}
\ncline[linecolor=green!50!red]{root}{A}
\ncline[linecolor=blue]{root}{B}
\ncline[linecolor=-green!50!red]{root}{C}
\end{pspicture}
```

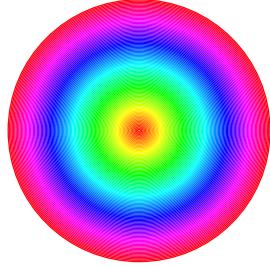
Figure 2: Moving from one color to its complement; requires `pst-slope`



```
\begin{pspicture}(4,1)
\psframe[fillstyle=slope,
          slopeangle=30,
          slopebegin=red!72.5375!blue,
          slopeend=-red!72.5375!blue](4,1)
\end{pspicture}
```

*This file is part of the `xcolor` distribution which can be downloaded from the CTAN mirrors ([macros/latex/contrib/xcolor/](https://mirrors.ctan.org/macros/latex/contrib/xcolor/)) or the homepage www.ukern.de/tex/xcolor.html. Please send error reports and suggestions for improvements to <https://github.com/latex3/xcolor/issues>.

Figure 3: Explicit color specification via a loop command; requires `multido`



```
\psset{unit=1.75}%
\begin{pspicture}(0,-1)(2,1)
\multido{\rHue=0.00+0.01}{100}{%
    \pscircle[linewidth=0.01,
        linecolor={[hsb]{\rHue,1,1}}](1,0){\rHue}}
\end{pspicture}
```

Figure 4: Color series — modified version of an example from the `pst-fil` manual; note that the `\multirput` command does not give the desired result here



```
\newcommand*\Sheep
{\begin{pspicture}(3,1.5)
\pscustom[liftpen=2,fillstyle=solid,fillcolor=sheep!!+]%
{\pscurve(0.5,-0.2)(0.6,0.5)(0.2,1.3)(0,1.5)(0,1.5)
 (0.4,1.3)(0.8,1.5)(2.2,1.9)(3,1.5)(3,1.5)(3.2,1.3)
 (3.6,0.5)(3.4,-0.3)(3,0)(2.2,0.4)(0.5,-0.2)}
\pscircle*(2.65,1.25){0.12\psunit}\% Eye
\psccurve*(3.5,0.3)(3.35,0.45)(3.5,0.6)(3.6,0.4)\% Muzzle
\pscurve(3,0.35)(3.3,0.1)(3.6,0.05)\% Mouth
\pscurve(2.3,1.3)(2.1,1.5)(2.15,1.7)
\pscurve(2.1,1.7)(2.35,1.6)(2.45,1.4)\% Ear
\end{pspicture}}
\definecolorseries{sheep}{rgb}{step}[rgb]{.95,.85,.55}{.17,.47,.37}
\resetcolorseries{sheep}
\psset{unit=0.4}
\begin{pspicture}(-3,-6)(0,7.5)
\Multido{\ry=6.0+-1.5}{5}{%
\irput(0,\ry){\Multido{}{5}{\Sheep}}}
\resetcolorseries{sheep}%
\multirput(-6,-6)(3,0)5{\Sheep}
\end{pspicture}
```

Figure 5: Interaction with native PostScript code — γ -corrected wavelengths

```

\newcount\WL \unitlength.75pt
\def\WaveToPS#1%
{\definecolor{tmp}{rgb:wave}{#1}\extractcolorspecs{tmp}\tmpm\tmpc
 \expandafter\WaveToPSi\tmpc,
\def\WaveToPSi#1,#2,#3,{\pstVerb{/Red[#1]def /Green[#2]def /Blue[#3]def}}
\def\DisplayBar#1#2%
{\linethickness{1.25\unitlength}\WL=360
 \pstVerb{/Gamma[#1]def}%
 \multiput(360,#2)(1,0){456}%
 {\WaveToPS{\the\WL}{\color{lambda}\line(0,1){50}}\global\advance\WL1}%
 \linethickness{0.25\unitlength}\WL=360
 \multiput(360,#2)(20,0){23}%
 {\picture(0,0)
  \line(0,-1){5}\multiput(5,0)(5,0){3}{\line(0,-1){2.5}}%
  \put(0,-10){\makebox(0,0){\the\WL}}\global\advance\WL20
  \endpicture}%
 \put(350,#2){\makebox(0,50)[r]{\small$\gamma$\,=\,\#1}}}
\pstVerb{/Corr{dup 0 gt {Gamma exp}if}def}
\definecolor[ps]{lambda}{rgb}{Red Corr Green Corr Blue Corr}%
\begin{picture}(510,345)(310,-10)
\sffamily\tiny
\DisplayBar{0.4}%
\DisplayBar{0.6}%
\DisplayBar{0.8}%
\DisplayBar{1.0}%
\DisplayBar{1.2}%
\end{picture}

```

