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

Dr. Uwe Kern* v2.09 (2005/12/21)

This document is not suitable for pdfIATEX! Please use IATEX + dvips etc.

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

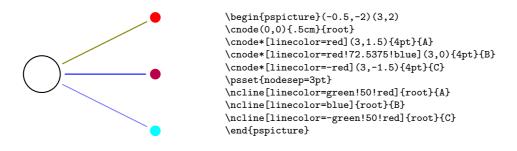
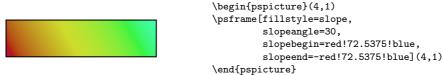


Figure 2: Moving from one color to its complement; requires pst-slpe



^{*}This file is part of the xcolor distribution which can be downloaded from the CTAN mirrors (macros/latex/contrib/xcolor/) or the homepage www.ukern.de/tex/xcolor.html. Please send error reports and suggestions for improvements to xcolor@ukern.de.

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

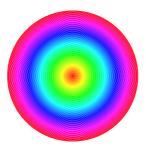


Figure 4: Color series — modified version of an example from the pst-fill manual; note that the \multirput command does not give the desired result here





```
\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}
\left(-3,-6\right)(0,7.5)
Multido{ry=6.0+-1.5}{5}%
 {\rule(0,\ry){\Multido{}{5}{\Sheep}}}
\resetcolorseries{sheep}%
\mbox{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%
 {\bf \{\linethickness\{1.25\label{lineth}\}\label{linethickness}} \\
  \pstVerb{/Gamma{#1}def}%
  \multiput(360,#2)(1,0){456}%
  \linethickness{0.25\unitlength}\WL=360
  \multiput(360,#2)(20,0){23}%
  {\picture(0,0)
   \put(0,-10){\mbox(0,0){\the\WL}}\global\advance\WL20
   \endpicture}%
 \put(350, #2){\makebox(0,50)[r]{\mall}\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}{0}%
DisplayBar{0.6}{70}
\DisplayBar{0.8}{140}%
\DisplayBar{1.0}{210}%
\DisplayBar{1.2}{280}%
\end{picture}
```

