

Application Examples

5) Color image that will print in mono:

```
. . .
% WANT TO CHANGE THE IMAGE SIZE AND POSITION ?
% This is easy! Search forward for 'CHANGE THIS' for instructions.
. . .
/ImPsImage {
  /buffer      ImPsImageW 3 mul string def
  /graybuffer  ImPsImageW string def
. . .
% Determine if the PostScript device can handle color by checking if
% the colorimage operator is defined.
systemdict /colorimage known {
  currentfile buffer readhexstring pop
} false 3 colorimage } {
% The PostScript device cannot do color. Convert to grayscale.
{ % Get the RGB data
  currentfile buffer readhexstring pop pop
  % For each pixel...
  0 1 ImPsImageW 1 sub
  { % Compute gray value and store in graybuffer
    graybuffer exch
    dup 3 mul dup 1 add dup 1 add
      buffer exch get 0.114 mul
    exch buffer exch get 0.587 mul add
    exch buffer exch get 0.299 mul add
    cvi
    put
  } for graybuffer } image } ifelse
showpage } bind def
%%EndProlog
%%Page: 1 1
%%BeginPageSetup
. . .
/ImPsImageW 100 def % Width in pixels
/ImPsImageH 100 def % Height in pixels
%%BeginData: 835 Hex Lines
ImPsImage
a40000a40000a30000a30000a30000a30000a20000a20000a10000a00000a00000a00000
. . .
00a23200a13200a13200a03100a032009f31009e31009e31009d31009d30009e30009e31
009b30009a30009b2f009a30
%%EndData
%%PageTrailer
%%Trailer
%%EOF
```

