

mars@ixos.de (Martin Stein) writes:

#I use xwd/xpr (from the X11R5 dist.) and various programs of the
#ppm-tools to print hardcopies of colored X windows. My problem is,
I don't like xpr. It gives (at least, the X11R4 version does) louzy
output: the hardcopy looks very grainy to me.

Instead, I use pnmtops. This takes full advantage PostScript, and
lets the printer do the dirty job of dithering a (graylevel)
image to black and white dots.

So: if you have a PostScript printer, try:

```
xwdtopnm <xwdfile> |# convert to PPM  
[ppmtopgm |]# .. to graylevel for smaller file to print  
pnmtops -noturn |# .. to PostScript  
lpr# print
```

pnmtops Has several neat options, but use them with care:

If you want your image to be 4" wide, use:

```
pnmtops -noturn -scale 100 -width 4
```

-noturn Prevents the image from being rotated (if it is wider than it
is high)

-width 4 Specifies the PAPER width (not the image width - see below)

-scale 100 Is used because if the image is small, it may fit within a
width less than 4", and will thus be printed smaller than 4" wide.

If you first scale it up a lot, it will certainly not fit in 4", and
will be scaled down by pnmtops automatically to fit the specified
paper width.

In short: pnmtops will scale an image down to fit the paper size,
but it will not blow it up automatically.

Hope this helps.

Marcel.

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====Life stinks. Fortunately, I've got a cold.=====