

Image Printing

♣ From ascii to PostScript generator for image data.

To compile raw2ps.c `gcc raw2ps.c -lm -o raw2ps`

Syntax `raw2ps imagefile rows cols dx dy sizex sizey | lpr [-Plw]`

For multiple images:

- `raw2ps file1 rows1 cols1 dx1 dy1 sizex1 sizey1 + > tmp`
- `raw2ps file2 rows2 cols2 dx2 dy2 sizex2 sizey2 + >>tmp`
- `:`
- `raw2ps filen rowsn colsn dxn dyn sizexn sizeyn >>tmp`
- `lpr [-Plw] tmp`

Description

raw2ps is a program which converts a free-form ascii file of unsigned characters (pixel values between 0 and 255) into a PostScript program which produces a printed image when printed on a PostScript printer such as an HP LaserJet. The user has a complete control over picture placement and size. By default, gray levels near zero print darkly, and gray levels near 255 are light. The user can also specify the PostScript code not to include a print command (this is useful if multiple pictures on one page are desired).

Input Parameters

`rows j` number of rows in the image matrix (no default)

`cols j` number of columns in the image matrix (no default)

`dx j` horizontal position of lower left corner of image wrt. lower left corner of page (current point in TeX mode) (in inches)

`dy j` vertical position of lower left corner of image wrt. lower left corner of page (current point in TeX mode) (in inches)

`sizex j` horizontal size of the printed image

`sizey j` vertical size of the printed image

♣ Note

This program expects *only* unsigned characters (pixel values) in the input file. Any header information should be stripped off of the image file. If the gray values are in binary format, they should be converted. This restriction was imposed to keep things as general as possible.

Source Code <http://www.cs.nthu.edu.tw/~cchen/CS4520/raw2ps.c>