

NAME

pic2img – convert a PIC diagram into a cropped image

SYNOPSIS

pic2img [**OPTIONS** ...] [**CONVERT-ARGUMENTS** ...] *<in >out*

pic2img [**--help**] [**--version**]

DESCRIPTION

pic2img reads a **gpic**(1) program from the standard input and writes an image file, by default in Portable Network Graphics (PNG) format, to the standard output. It furthermore translates **geqn**(1) constructs, so it can be used for generating images of mathematical formulae. The **preconv**(1) preprocessor can also be enabled to parse non-English text.

The input PIC code should *not* be wrapped with the **.PS** and **.PE** macros that normally guard it within **groff**(1) documents.

Please note that **pic2img** takes its input *from the standard input*, and writes to *standard output*. It does not feed from an input file or write to an output file directly. You can use shell stream redirections (*<* and *>*) to control input and output to files.

```
$ pic2img <infile.pic >outfile.png
```

Arguments not recognized by **pic2img** are passed to the ImageMagick program **convert**(1). By specifying these, you can give your image a border, set the image's pixel density, or perform other useful transformations.

The output image is clipped using **convert**'s **-trim** option to the smallest possible bounding box.

OPTIONS

-f *format*

--format *format*

Write the image in *format*, which must be understood by **convert**; the default is PNG.

-q *quality*

--quality *quality*

Sets the output image quality, on a 1–3 scale (1 being the lowest quality). The 1, 2 and 3 values correspond to **convert**'s **-density** values of 300, 600 and 900 respectively, which applies to reading the input PostScript from **groff**. If out of this scale, the *quality* value is directly mapped to the **-density** option.

-s *size* Set size of the output image, according to **convert**(1)'s **-geometry** syntax.

-b Set a white background to the output image, even when outputting to PNG *format*.

-k Enable **groff**'s **preconv** preprocessor to parse the input.

-K *preconv-encoding*

Set **groff**'s **preconv** preprocessor input encoding. Implies **-k**.

--eqn *delimiters*

Use *delimiters* as the opening and closing characters that delimit **geqn** directives; the default is “\$\$. The option argument *delimiters* should be a two-character string, but an empty string (“”) is accepted as a directive to disable **geqn** processing.

-U

--unsafe

Run **groff** in unsafe mode, enabling the PIC command **sh** to execute arbitrary Unix shell commands. The **groff**(1) default is to forbid this.

-v

--version

Display version information and exit.

-h

--help Display a usage message and exit.

EXAMPLES

This command creates a crisp *pic.jpg* JPG file of 1920 pixel of width reading the pic instructions of the *diagram.pic* file, with **groff**'s unsafe mode and the **preconv** preprocessor enabled.

```
$ pic2img -b -k -U -f jpg -s 1920x -q 3 <diagram.pic >pic.jpg
```

AUTHORS

pic2img was written by Sylvain Saubier <mail@sylsau.com>, based on a recipe by Eric S. Raymonds.

SEE ALSO

W. Richard Stevens, *Turning PIC into HTML* <<http://www.kohala.com/start/troff/pic2html.html>>

ImageMagick's online manual, *Anatomy of the Command-line / Image Geometry* <<https://imagemagick.org/script/command-line-processing.php#geometry>>

ImageMagick's online manual, *Annotated List of Command-line Options / -density* <<https://imagemagick.org/script/command-line-options.php#density>>

groff(1), **convert**(1), **gpic**(1), **geqn**(1), **preconv**(1), **eqn2graph**(1), **grap2graph**(1)