NAME
eqn2graph - convert an EQN equation into a cropped image

SYNOPSIS
eqn2graph [**-unsafe**] [**-format fmt**]

DESCRIPTION
Reads an EQN equation (one line) as input; produces an image file (by default in Portable Network Graphics format) suitable for the Web as output.

Your input EQN code should *not* have the .EQ/.EN preamble that normally precedes it within groff(1) macros; nor do you need to have dollar-sign or other delimiters around the equation.

The output image will be clipped to the smallest possible bounding box that contains all the black pixels. Older versions of **convert(1)** will produce a black-on-white graphic; newer ones may produce a black-on-transparent graphic. By specifying command-line options to be passed to **convert(1)** you can give it a border, force the background transparent, set the image's pixel density, or perform other useful transformations.

This program uses eqn(1), groff(1), and the ImageMagick **convert(1)** program. These programs must be installed on your system and accessible on your $PATH for **eqn2graph** to work.

OPTIONS
-unsafe
>   Run groff(1) in the 'unsafe' mode enabling the PIC macro **sh** to execute arbitrary commands. The default is to forbid this.

-format fmt
>   Specify an output format; the default is PNG (Portable Network Graphics). Any format that **convert(1)** can emit is supported.

Command-line switches and arguments not listed above are passed to **convert(1).**

FILES
/usr/share/groff/1.22.3/tmac/eqnrc   The eqn(1) initialization file.

ENVIRONMENT
GROFF_TMPDIR
>   The directory in which temporary files will be created. If this is not set **eqn2graph** searches the environment variables **TMPDIR**, **TMP**, and **TEMP** (in that order). Otherwise, temporary files will be created in **/tmp**.

BUGS
Due to changes in the behavior of ImageMagick **convert(1)** that are both forward and backward-incompatible, mismatches between your **eqn2graph** and **convert(1)** versions may produce zero-sized or untrimmed output images. For this version of **eqn2graph** you will need a version of **convert(1)** that supports the **-trim** option; older versions of **eqn2graph** used **-crop 0x0**, which no longer has trimming behavior.

SEE ALSO
pic2graph(1), grap2graph(1), eqn(1), groff(1), **gs(1), convert(1).**

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