Pnmsmooth User Manual

pnmsmooth

Updated: 4 December 1994
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NAME

pnmsmooth - smooth out an image

SYNOPSIS

pnmsmooth [**-width=***cols*] [**-height=***rows*] [**-dump**=*dumpfile*] [*pnmfile*]

Deprecated backward-compatibility option: [**-size**]

Minimum unique abbreviation of option is acceptable. You may use double hyphens instead of single hyphen to denote options. You may use white space in place of the equals sign to separate an option name from its value.

DESCRIPTION

This program is part of Netpbm.

pnmsmooth smoothes out an image by replacing each pixel with the average of its width X height neighbors. It is implemented as a progam that generates a PGM convolution matrix and then invokes **pnmconvol** with it.

OPTIONS

-width=*cols*

-height=*rows*These options specify the dimensions of the convolution matrix. Default dimensions are 3 wide and 3 high. Each dimension must be odd. The maximum size of the convolution matrix is limited by the maxval of the image such that width * height * 2 must not exceed the maxval. (use **pamdepth** to increase the maxval if necessary).

These options were new in Netpbm 10.32 (February 2006). Before that, use **-size**.

-size This deprecated option exists in current Netpbm for backward compatibility. It was obsoleted by **-width** and **-height** in Netpbm 10.32 (February 2006).

When you use this option, the first two program arguments are the width and height, respectively, of the convolution matrix and do the same thing as the **-width** and **-height** option values. The third (optional) program argument is the input file name.

In reality, in old **pnmsmooth**, the width and height are two values of the **-size** option, but the modern Netpbm command syntax paradigm doesn't allow an option with multiple values, so instead **-size** is an option with no value and width and height are program arguments. That has the fortunate effect of making the following command mean the same in current **pnmsmooth** as in old **pnmsmooth**:

```
pnmsmooth -size 5 5 infile.ppm >outfile.ppm
```

-dump=*dumpfile*This options makes **pnmsmooth** only generate and save the convolution file. It does not invoke **pnmconvol** and does not produce an output image.

SEE ALSO

pnmconvol, pnm

HISTORY

Before Netpbm 10.32 (February 2006), **pnmsmooth** did not use the modern Netpbm command line parser, so had an unconventional command line syntax. Most importantly, you could not use an equal size or double hyphens in the options.

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