Directory of Netpbm programs

Netpbm Program Directory

<?makeman .SH NAME ?> <?makeman netpbm_directory netpbm library directory ?>

We have the programs divided into these categories:

- Converters
- Editors
- Generators
- Analyzers

Converters

pnmtopnmconvert PNM image to PNM raw or plain
pgmtopgmconvert PGM or PBM image to PGM
ppmtoppmconvert PPM, PGM, or PBM image to PPM
pbmtopgm convert PBM image to PGM by averaging areas
pgmtopbm (Obsolete) convert PGM image to PBM by dithering
pgmtoppm colorize a PGM into a PPM
ppmtopgm convert PPM image to PGM
ppmtompeg convert series of PPM frames to an MPEG movie
jpegtopnm convert JFIF/JPEG/EXIF file to Netpbm format
pnmtojpeg convert PNM to JPEG/JFIF/EXIF format
pamtojpeg2k convert PNM/PAM to JPEG-2000 code stream
jpeg2ktopam convert JPEG-2000 code stream to PAM/PNM
anytopnm convert any graphics format to Netpbm format
bmptopnm convert Windows or OS/2 Bitmap file to PPM or PGM
ppmtobmp convert PPM to Windows or OS/2 Bitmap file
winicontoppmconvert Windows icon file to PPM
ppmtowiniconconvert PPM to Windows icon file
giftopnm convert GIF to PNM
ppmtogif convert PPM to GIF
pnmtopng convert Netpbm format to Portable Network Graphics
pngtopnm convert PNG (Portable Network Graphics) to Netpbm formats
pamrgbatopng convert PAM color/transparency image to PNG
palmtopnm convert Palm pixmap to Netpbm formats
pnmtopalm convert Netpbm formats to Palm pixmap
ddbugtopbm convert Palm DiddleBug image to PBM
jbigtopnm convert JBIG BIE (compressed bitmap) to PNM

pamtopnmconvert a PAM image to PBM, PGM, or PPM
pnmtojbig convert PNM to JBIG BIE (compressed bitmap)
pnmtofiasco convert Netpbm image to Fiasco (wfa) highly compressed format
fiascotopnm convert Fiasco (wfa) highly compressed format to Netpbm image
pamtosvgconvert Netpbm image to Scalable Vector Graphics (SVG); trace image
pamtopfm convert PAM/PNM to HDRshop PFM (Portable Float Map)
pfmtopam convert HDRshop PFM (Portable Float Map) to PAM
pbmtomrf convert PBM image to MRF (compressed bitmap)
mrftopbm convert MRF (compressed bitmap) to PBM
hpcdtoppm convert photo CD to PPM
pcdovtoppm Convert a photo CD PCD overview file to PPM
pbmtonokiaconvert PBM to Nokia Smart Messaging Format (SMF)
pbmtowbmp convert PBM to WAP (Wireless App Protocol) Wireless Bitmap
wbmptopbm convert WAP (Wireless App Protocol) Wireless Bitmap to PBM
pamtohtmltbl convert PNM/PAM to an HTML table with a colored cell for each pixel
pbmtomda convert from PBM to Microdesign (for Amstrad PCWs)
mdatopbm convert from Microdesign (for Amstrad PCWs) to PBM
atktopbm convert Andrew Toolkit raster object to PBM
pbmtoatk convert PBM to Andrew Toolkit raster object
brushtopbm convert Xerox doodle brushes to PBM
cmuwmtopbm convert CMU window manager format to PBM
g3topbm convert Group 3 FAX to PBM
pbmtog3 convert PBM to Group 3 FAX
icontopbm convert Sun icon to PBM
pbmtoicon convert PBM to Sun icon
gemtopnm convert GEM .img format to PBM or pixmap
macptopbm convert MacPaint to PBM
pbmtomacp convert PBM to MacPaint
mgrtopbm convert MGR format to PBM
pbmtomgr convert PBM to MGR format
infotopam convert Amiga .info icons to PAM
neotoppmconvert Atari Neochrome (.neo) image to PPM
ppmtoneoconvert PPM image to Atari Neochrome (.neo)
pi1toppm convert Atari Degas .pi1 to PPM
ppmtopi1 convert PPM to Atari Degas .pi1
pc1toppm convert Atari Degas .pc1 (compressed pi1) to PPM
pi3topbm convert Atari Degas .pi3 to PBM
pbmtopi3 convert PBM to Atari Degas .pi3
xbmtopbm convert X10 or X11 bitmap to PBM
pbmtoxbm convert PBM to X11 bitmap
pbmtox10bm convert PBM to X10 bitmap
ybmtopbm convert Bennet Yee "face" file into PBM

pbmtoybm convert PBM into Bennet Yee "face" file
pbmtoepson convert PBM to Epson 9-pin printer graphics
pbmtoescp2 convert PBM to Epson ESC/P2 printer graphics
escp2topbm convert Epson ESC/P2 printer graphics to PBM
pbmto10x convert PBM to Gemini 10x printer graphics
pnmtopclxl convert PNM to HP PCL-XL (PCL 6) printer language
ppmtopjxl convert from PPM to HP Paintjet XL PCL printer stream
pbmtolj convert PBM to HP LaserJet black and white graphics
ppmtolj convert PPM to HP LaserJet color graphics (PCL 5)
pjtoppm convert HP PaintJet file to PPM
ppmtopj convert PPM to HP PaintJet file
thinkjettopbm convert HP Thinkjet printer stream to PBM
pbmtoppa convert PBM to HP PPA (Printer Performance Architecture) printer stream
ppmtomitsu convert from PPM to Mitsubishi S340-10 printer stream
pbmtoibm23xx convert from PBM to IBM 23XX printer stream
ppmtoterm Display PPM image on ANSI standard text terminal
pbmto4425 Display PBM image on AT&T 4425 ASCII terminal with gfx chars
pbmtoascii convert PBM to ASCII graphic form
asciitopgm convert ASCII character graphics to PGM
pbmtobbnbg convert PBM to BBN BitGraph graphics
pbmtocmuwm convert PBM to CMU window manager format
pbmtogem convert PBM into GEM .img file
pbmtogo convert PBM to GraphOn graphics
pbmtoplot convert PBM into Unix **plot** file
pbmtoptx convert PBM to Printronix graphics
pbmtozinc convert PBM to Zinc Interface Library icon
fitstopnm convert FITS format to PNM
pamtofits convert Netpbm formats to FITS format
fstopgm convert Usenix FaceSaver(tm) format to PGM
pgmtofs convert PGM to Usenix FaceSaver(tm) format
hipstopgm convert HIPS format to PGM
lispmtopgm convert a Lisp Machine bitmap file into PGM format
pgmtolispm convert PGM into Lisp Machine format
pnmtops convert Netpbm formats to Postscript
pstopnm convert Postscript to Netpbm formats
psidtopgm convert PostScript "image" data to PGM
pbmtolps convert PBM image to Postscript using lines
pbmtoepsi convert a PBM image to encapsulated Postscript preview bitmap
pbmtopsg3 convert PBM images to Postscript using G3 fax compression.
rawtopgm convert raw grayscale bytes to PGM
gouldtoppm convert Gould scanner file to PPM
ilbmtoppm convert IFF ILBM to PPM

ppmtoilbm convert PPM to IFF ILBM
imgtoppm convert Img-whatnot to PPM
mtvtoppm convert MTV ray-tracer output to PPM
pcxtoppm convert PC Paintbrush format to PPM
picttoppm convert Macintosh PICT to PPM
ppmtopict convert PPM to Macintosh PICT
qrttoppm convert QRT ray-tracer output to PPM
rawtoppm convert raw RGB bytes to PPM
sldtoppm convert an AutoCAD slide file into a PPM
spctoppm convert Atari compressed Spectrum to PPM
sputoppm convert Atari uncompressed Spectrum to PPM
tgatoppm convert TrueVision Targa file to PPM
pamtotga convert PAM to TrueVision Targa file
ximtoppm convert Xim to PPM
xpmtoppm convert XPM format to PPM
ppmtoxpm convert PPM to XPM format
yuvtoppm convert Abekas YUV format to PPM
eyuvtoppm convert Encoder/Berkeley YUV format to PPM
ppmtoeyuv convert PPM to Encoder/Berkeley YUV format
ppmtoyuv convert PPM to Abekas YUV format
ppmtoyuvsplit convert PPM to 3 subsampled raw Stanford MPEG YUV files
yuvsplittoppm merge 3 subsampled raw YUV files to one PPM
ppmtoacad convert PPM to AutoCAD database or slide
ppmtoicr convert PPM to NCSA ICR graphics
ppmtopcx convert PPM to PC Paintbrush format
ppmtopuzz convert PPM to X11 "puzzle" file
rasttopnm convert Sun raster file to Netpbm formats
pnmtorast convert Netpbm formats to Sun raster file
tifftopnm convert TIFF file to PNM
pamtotiff convert Netpbm formats to TIFF RGB file
pnmtotiffcmyk convert Netpbm formats to TIFF CMYK file
xwdtopnm convert X10 or X11 window dump to Netpbm formats
pnmtoxwd convert Netpbm formats to X11 window dump
cameratopam convert raw camera image to PAM
411toppm convert 411 (Sony Mavica) to PPM
ppmtosixel convert PPM to DEC sixel format
ppmtouil convert PPM to Motif UIL icon file
sbigtopgm convert Santa Barbara Instrument Group CCD file to PGM
vidtoppm convert Parallax XVideo JPEG to sequence of PPM files
pnmtorle convert PNM to Utah Raster Toolkit (urt/rle) file
rletopnm convert Utah Raster Toolkit (urt/rle) file to PNM
pamtodjvurle convert PNM/PAM to DjVu Color RLE format

pbmtodjvurle convert PBM to DjVu Bitonal RLE format

rlatopamconvert Alias/Wavefront RLA and RPF to PAM

ppmtoleaf convert PPM to Interleaf

leaftoppm convert Interleaf to PPM

bioradtopgm convert Biorad confocal image to PGM

pbmtoln03 convert PGM image to Dec LN03+ Sixel image

pbmtopk convert PBM image to packed format (PK) font

pktopbm convert packed format (PK) font to PBM image

pamtohdiffconvert PAM image to horizontal difference version of same

hdifftopamconvert horizontal difference PAM back to original image

pnmtoddifconvert from Netpbm formats to DDIF

pnmtosgiconvert from Netpbm formats to SGI format

sgitopnmconvert from SGI format to Netpbm formats

pnmtosirconvert from Netpbm formats to Solitaire Image Recorder file (MGI Type 11 or 17)

sirtopnmconvert from Solitaire Image Recorder file to Netpbm formats.

spottopgmconvert SPOT satellite image to PGM

pamtovminiconvert from Netpbm formats to Xv "thumbnail" picture

xvminitoppmconvert Xv "thumbnail" picture to PPM

zeisstopnmconvert a Zeiss confocal file to Netpbm format

ppmtoarbtxt.htmlconvert PPM to just about any text-based format, using a grammar file

Image Generators

All of these generate Netpbm format output.

pbmmakecreate a blank PBM image of a specified size

pgmmakecreate a PGM image of a specified size and shade of gray

ppmmakecreate a PPM image of a specified size and color

pgmrampgenerate a grayscale ramp (gradient)

pamgradientcreate a four-corner gradient image

ppmpatcreate a pretty PPM image

ppmrainbowcreate a spectrum-like image with colors fading together.

ppmroughcreate PPM image of two colors with a ragged border between them

pgmnoisecreate a PGM image of white noise

pbmtextrender text into a PBM image

pbmtextps render text into a PBM image using a Postscript interpreter

pbmupc create a Universal Product Code PBM image

pamstereogram create a single image stereogram from a height map

ppmwheel generate a hue-value color wheel

ppmcie generate a CIE color map PPM image

pbmpage create a printer test pattern page in PBM format

pamseqcreate a PAM image of all possible tuple values. E.g. a color map containing all possible colors of given maxval

pamgausscreate a PAM image of a Gaussian (bell curve; normal curve) function.

ppm3dgenerate a blue/green 3D glasses image from two images

Image Editors

All of these work on the Netpbm formats

ppmlabel Add text to an image

ppmdraw Draw text, lines, shapes, etc. on an image

ppmshadowadd a shadow to an image so it looks like it's floating

pgmdeshadowdeshadow a PGM image

ppmbrighten brighten or dim an image -- change saturation and value

ppmflashbrighten an image

ppmdim dim an image - different way from ppmbrighten

ppmfadeProduce series of images fading from one to another

pbmreduce reduce a PBM N times, using Floyd-Steinberg

pnmnorm normalize contrast

pbmpscale enlarge a PBM image with edge smoothing

pamscale scale/resample an image with high precision

pnmscale scale an image with high precision - obsolete

pnmscalefixed scale an image quickly with low precision

pamenlarge enlarge an image N times

pamperspective Change perspective distortion in an image

ppmdither ordered dither for color images

pamditherbw dither a grayscale image to black and white (convert PGM to PBM)

pamthreshold threshold a grayscale image to black and white (convert PGM to PBM)

pnmcolormapChoose the N best colors to represent an image; create a colormap

pnmremapReplace colors in an image with those from a color map

ppmquant quantize colors in a color image down to fewer colors - obsolete

pnmquant quantize colors/shades in a color or grayscale image down to fewer

ppmquantall quantize colors on many files

ppmrelief run a Laplacian Relief filter on a PPM

pamfuncapply simple arithmetic function to samples in an image

pamarith apply simple arithmetic binary function to samples in two images

pamsummcol summarize (sum, average, etc) an image by column

pnmcat concatenate images

pnmpad add borders to an image

pamcomp create composite (overlay) of images

pnmcomp obsolete version of **pamcomp** (kept because it may have fewer bugs)

ppmmix mix (overlay) two images.

pnmcrop crop all like-colored borders off an image

pamcutselect a rectangular region from an image

pnmcut obsolete version of **pamcut** (kept because it may have fewer bugs)

pamdiceslice an image into many horizontally and/or vertically

pamdeinterlaceremove every other row from an image

pammixinterlacemix adjacent lines to merge interlaced images
pnmstitchstitch together panoramic (side-by-side) photographs
ppmglobeTurn a cylindrical projection into strips that can be glued onto a sphere
pamlookupmap an image to a new image by using it as indices into a table
pamdepth change the maxval in an image
pamendianSwap bytes in multi-byte samples of a PAM image
pamflip perform one or more flip operations on an image
pamstretchscale up an image by inserting interpolated pixels
pamstretch-genscale by non-integer values using pamstretch and pamscale
pnminvert invert an image
pnmgamma perform gamma correction on an image
pnmhisteqhistogram equalize image to increase contrast
pnmmargin add a margin to an image
pnmpaste paste a rectangle into an image
pnmrotate rotate an image
pnmshear shear an image
pgmabelcreate cross-section of an image using Abel integration for deconvolution
pnmsmooth smooth an image
pgmmedian apply a median filter to an image
pamaddnoise add noise to an image
pnmtile replicate an image into a specified size
pbmclean remove lone pixels (snow) from a PBM image
pnmalias antialias an image
ppmchange change all of one color to another in PPM image
pnmnlfiltfilter an image by replacing each pixel with a function of nearby pixels
ppmshift shift lines of PPM image left or right a random amount
ppmspread move pixels of PPM image a random amount
pnmconvol general MxN convolution on an image. Can blur an image.
pgmmorphconvperform morphological convolutions on a PGM image: dilation and erosion.
pgmminkowskiCompute Minkowski integral over a PGM image
pamedge edge-detect (outline) an image
pammasksharpen sharpen an image via an unsharp mask
rgb3toppm combine three PGMs into one PPM
ppmtorgb3 separate a PPM into three PGMs
pgmenhance edge-enhance a PGM image
pbmlife apply Conway's rules of Life to a PBM image
ppmdist map colors to high contrast grayscales arbitrarily
ppmntsc adjust colors so they are legal for NTSC or PAL television

Image Analyzers

These all work on the Netpbm formats as input.

pamfile describe an image's vital characteristics

pnmpsnr measure difference between two images

pamslice print a row or column of an image in ASCII decimal

pgmtexture calculate textural features on a PGM image

pgmhist print a histogram of the values in a PGM image

ppmhist print a histogram of a PPM

pnmhistmap draw a histogram of a PGM or PPM

pnmcolormap create quantization color map for an image

pamsumm Summarize (sum, average, etc.) all samples in an image

pamsharpness measure the sharpness of an image

pamsharpmap create map of sharpness in an image

pamtilt Measure the tilt of an image, i.e. document skew

Miscellaneous

pamchannel extract individual planes (channel, e.g. R, G, or B) from an image

pamstack stack the planes of multiple PAM images into a single output image

pampick pick images out of a multi-image Netpbm image stream

pamsplit split a multi-image Netpbm file into multiple 1-image files

pambayer interpret Bayer patterns

pamx display a Netpbm image in an X Window System window

ppmsvgalib display a PPM image on a Linux virtual console using Svgalib

pbmmask create a mask bitmap from a regular bitmap

ppmcolormask create mask of areas of a certain color in an image

pnmindex build a visual index of a bunch of Netpbm images

pnmmontage build multiple Netpbm images into a single montage image

pgmbentley Bentleyize a PGM image

pgmcrater create cratered terrain by fractal forgery

pamoil turn a PNM or PAM image into an oil painting

ppmforge fractal forgeries of clouds, planets, and starry skies

pgmkernel generate a convolution kernel

ppmtv make an image lined so it looks like an old TV

pampop9 simulate a multi-lens camera such as the Pop9

ppmdmkfont create Ppmdfont "standard"

ppmddumpfont dump a Ppmdfont file

ppmdcfont Turn a Ppmdfont file into C source for a builtin font

Obsolete Names

There used to be programs by the following names. Each has been either renamed to a more illustrative name, or superseded by a more general function. In most cases, Netpbm is installed with symbolic links that allow old programs and procedures to use these names but run the replacement programs:

ppmtotga

pnmnoraw
gemtopbm
pnminterp
pgmoil
ppmtojpeg
bmptoppm
pgmnorm
ppmnorm
pnmfile
pnmarith
pgmedge
ppmtoouil
pnmtoplainpnm
pnmtofits
pnmtotiff
pnmsplit
pnmdepth