NAME

mogrify - resize an image, blur, crop, despeckle, dither, draw on, flip, join, re-sample, and much more. Mogrify overwrites the original image file, whereas, convert(1) writes to a different image file.

SYNOPSIS

mogrify [options] input-file

OVERVIEW

The **mogrify** program is a member of the ImageMagick(1) suite of tools. Use it to resize an image, blur, crop, despeckle, dither, draw on, flip, join, re-sample, and much more. This tool is similar to convert(1) except the original image file is overwritten with any changes you request.

For more information about the mogrify command, point your browser to file:///usr/local/share/doc/ImageMagick-7/www/mogrify.html or http://imagemagick.org/script/mogrify.php.

DESCRIPTION

Image Settings:

-adjoin join images into a single multi-image file

-affine matrix affine transform matrix remove pixel-aliasing

-authenticate value decrypt image with this password

-attenuate value lessen (or intensify) when adding noise to an image

-background color background color

-bias value add bias when convolving an image

-black-point-compensation

use black point compensation

-blue-primary point chromaticity blue primary point

-bordercolor color border color

-caption string assign a caption to an image

-cdl filename color correct with a color decision list

-colorspace type alternate image colorspace

-comment string annotate image with comment

-compose operator set image composite operator

-compress type type of pixel compression when writing the image

-decipher filename convert cipher pixels to plain pixels

-define format:option

define one or more image format options

-delay centiseconds display the next image after pausing

-density geometry horizontal and vertical density of the image

-perceptible epsilon

```
-depth value
                  image depth
-direction type
                  render text right-to-left or left-to-right
-display server
                  get image or font from this X server
-dispose method
                    layer disposal method
-dither method
                   apply error diffusion to image
-encipher filename convert plain pixels to cipher pixels
-encoding type
                   text encoding type
-endian type
                  endianness (MSB or LSB) of the image
-family name
                   render text with this font family
-features distance analyze image features (e.g. contrast, correlation)
-fill color
               color to use when filling a graphic primitive
-filter type
                use this filter when resizing an image
               flatten a sequence of images
-flatten
-font name
                 render text with this font
-format type
                  image format type
-function name
                   apply a function to the image
-fuzz distance
                  colors within this distance are considered equal
                 horizontal and vertical text placement
-gravity type
-green-primary point chromaticity green primary point
-intensity method method to generate intensity value from pixel
-intent type
                 type of rendering intent when managing the image color
-interlace type
                  type of image interlacing scheme
-interline-spacing value set the space between two text lines
-interpolate method pixel color interpolation method
-interword-spacing value set the space between two words
-kerning value
                  set the space between two letters
-label string
                 assign a label to an image
-limit type value pixel cache resource limit
-loop iterations
                  add Netscape loop extension to your GIF animation
               store matte channel if the image has one
-matte
-mattecolor color frame color
-metric type
                 measure differences between images with this metric
-monitor
                 monitor progress
-morphology method kernel
             apply a morphology method to the image
-orient type
                 image orientation
                    size and location of an image canvas (setting)
-page geometry
-path path
                 write images to this path on disk
```

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pixel value less than |epsilon| become epsilon or -epsilon

```
efficiently determine image attributes
-ping
-pointsize value
                  font point size
-precision value
                  maximum number of significant digits to print
-preview type
                  image preview type
-quality value
                 JPEG/MIFF/PNG compression level
-quiet
               suppress all warning messages
-read-mask filename associate a read mask with the image
-red-primary point chromaticity red primary point
-regard-warnings
                    pay attention to warning messages
-remap filename
                    transform image colors to match this set of colors
                    size and location of an image canvas
-repage geometry
-respect-parentheses settings remain in effect until parenthesis boundary
-sampling-factor geometry
            horizontal and vertical sampling factor
-scene value
                 image scene number
-seed value
                 seed a new sequence of pseudo-random numbers
-size geometry
                  width and height of image
-stretch type
                 render text with this font stretch
-stroke color
                 graphic primitive stroke color
-strokewidth value graphic primitive stroke width
-style type
                render text with this font style
-synchronize
                  synchronize image to storage device
-taint
              declare the image as modified
-texture filename name of texture to tile onto the image background
-tile-offset geometry
             tile offset
-treedepth value
                  color tree depth
-transparent-color color
            transparent color
-undercolor color annotation bounding box color
-units type
                the units of image resolution
-verbose
                print detailed information about the image
-virtual-pixel method
             virtual pixel access method
-weight type
                 render text with this font weight
-white-point point chromaticity white point
-write-mask filename associate a write mask with the image
```

Image Operators:

-adaptive-blur geometry

```
adaptively blur pixels; decrease effect near edges
-adaptive-resize geometry
             adaptively resize image with data dependent triangulation
-adaptive-sharpen geometry
             adaptively sharpen pixels; increase effect near edges
-alpha option
                  on, activate, off, deactivate, set, opaque, copy
             transparent, extract, background, or shape
-annotate geometry text
            annotate the image with text
-auto-gamma
                   automagically adjust gamma level of image
-auto-level
                 automagically adjust color levels of image
-auto-orient
                 automatically orient image
-auto-threshold method
             automatically perform image thresholding
-bench iterations measure performance
-bilateral-blur geometry
             non-linear, edge-preserving, and noise-reducing smoothing filter
-black-threshold value
             force all pixels below the threshold into black
-blue-shift
                simulate a scene at nighttime in the moonlight
-blur geometry
                   reduce image noise and reduce detail levels
-border geometry
                    surround image with a border of color
-brightness-contrast geometry
             improve brightness / contrast of the image
-canny geometry
                    detect edges in the image
-channel mask
                   set the image channel mask
-charcoal radius
                  simulate a charcoal drawing
-chop geometry
                   remove pixels from the image interior
-clahe geometry
                   contrast limited adaptive histogram equalization
-clamp
                keep pixel values in range (0-QuantumRange)
-clip
              clip along the first path from the 8BIM profile
-clip-mask filename associate a clip mask with the image
-clip-path id
                 clip along a named path from the 8BIM profile
-colorize value
                  colorize the image with the fill color
-color-matrix matrix apply color correction to the image
-colors value
                 preferred number of colors in the image
-color-threshold start_color-stop_color
             force all pixels in the color range to white otherwise black
-connected-component connectivity
             connected-components uniquely labeled
```

```
enhance or reduce the image contrast
-contrast
-contrast-stretch geometry
             improve contrast by 'stretching' the intensity range
-convolve coefficients
            apply a convolution kernel to the image
-cycle amount
                   cycle the image colormap
-deskew threshold straighten an image
-despeckle
                 reduce the speckles within an image
-distort method args
             distort images according to given method and args
-draw string
                 annotate the image with a graphic primitive
-edge radius
                 apply a filter to detect edges in the image
-emboss radius
                   emboss an image
-enhance
                 apply a digital filter to enhance a noisy image
-equalize
                perform histogram equalization to an image
-evaluate operator value
            evaluate an arithmetic, relational, or logical expression
-extent geometry
                   set the image size
-extract geometry extract area from image
-fft
             implements the discrete Fourier transform (DFT)
-flip
              flip image vertically
-floodfill geometry color
            floodfill the image with color
              flop image horizontally
-flop
-frame geometry
                    surround image with an ornamental border
-gamma value
                   level of gamma correction
-gaussian-blur geometry
            reduce image noise and reduce detail levels
-geometry geometry preferred size or location of the image
-grayscale method convert image to grayscale
-help
               print program options
-hough-lines geometry
            identify lines in the image
-identify
                identify the format and characteristics of the image
-ift
             implements the inverse discrete Fourier transform (DFT)
-implode amount
                    implode image pixels about the center
-integral
                calculate the sum of values (pixel values) in the image
-interpolative-resize geometry
            resize image using interpolation
-kmeans geometry K means color reduction
```

-render

-resize geometry

-roll geometry

render vector graphics -resample geometry change the resolution of an image

resize the image

roll an image vertically or horizontally

```
local adaptive thresholding
-lat geometry
-layers method
                   optimize or compare image layers
                 adjust the level of image contrast
-level value
-level-colors color, color
             level image with the given colors
-linear-stretch geometry
             improve contrast by 'stretching with saturation' the intensity range
-liquid-rescale geometry
            rescale image with seam-carving
-magnify
                 double the size of the image with pixel art scaling
-mean-shift geometry delineate arbitrarily shaped clusters in the image
-median geometry
                     apply a median filter to the image
-mode geometry
                    make each pixel the 'predominant color' of the neighborhood
-modulate value
                    vary the brightness, saturation, and hue
-monochrome
                    transform image to black and white
-motion-blur geometry
             simulate motion blur
                replace each pixel with its complementary color
-negate
-noise geometry
                   add or reduce noise in an image
-normalize
                 transform image to span the full range of colors
                  change this color to the fill color
-opaque color
-ordered-dither NxN
             add a noise pattern to the image with specific amplitudes
                 simulate an oil painting
-paint radius
-polaroid angle
                  simulate a Polaroid picture
-posterize levels reduce the image to a limited number of color levels
-print string
                interpret string and print to console
-profile filename add, delete, or apply an image profile
-quantize colorspace reduce colors in this colorspace
-radial-blur angle radial blur the image
-raise value
                 lighten/darken image edges to create a 3-D effect
-random-threshold low,high
             random threshold the image
-range-threshold values
            perform either hard or soft thresholding within some range of values in an image
                    apply options to a portion of the image
-region geometry
```

```
apply Paeth rotation to the image
-rotate degrees
-sample geometry
                    scale image with pixel sampling
-scale geometry
                   scale the image
-segment values
                   segment an image
-selective-blur geometry
             selectively blur pixels within a contrast threshold
-sepia-tone threshold
             simulate a sepia-toned photo
-set property value set an image property
-shade degrees
                  shade the image using a distant light source
-shadow geometry
                     simulate an image shadow
-sharpen geometry
                    sharpen the image
-shave geometry
                    shave pixels from the image edges
-shear geometry
                   slide one edge of the image along the X or Y axis
-sigmoidal-contrast geometry
             lightness rescaling using sigmoidal contrast enhancement
-sketch geometry
                    simulate a pencil sketch
-solarize threshold negate all pixels above the threshold level
-sort-pixels
                 sort each scanline in ascending order of intensity
-sparse-color method args
             fill in a image based on a few color points
-splice geometry
                   splice the background color into the image
-spread amount
                   displace image pixels by a random amount
-statistic type geometry
             replace each pixel with corresponding statistic from the neighborhood
              strip image of all profiles and comments
-strip
-swirl degrees
                  swirl image pixels about the center
-threshold value
                  threshold the image
-thumbnail geometry create a thumbnail of the image
-tile filename
                 tile image when filling a graphic primitive
-tint value
                tint the image with the fill color
                 affine transform image
-transform
-transparent color make this color transparent within the image
-transpose
                 flip image vertically and rotate 90 degrees
                 flop image horizontally and rotate 270 degrees
-transverse
-trim
              trim image edges
-type type
                image type
-unique-colors
                  discard all but one of any pixel color
-unsharp geometry sharpen the image
-vignette geometry soften the edges of the image in vignette style
```

```
alter an image along a sine wave
 -wave geometry
 -wavelet-denoise threshold
              removes noise from the image using a wavelet transform
 -white-balance
                    automagically adjust white balance of image
 -white-threshold value
              force all pixels above the threshold into white
Image Channel Operators:
 -channel-fx expression
             exchange, extract, or transfer one or more image channels
                 separate an image channel into a grayscale image
 -separate
Image Sequence Operators:
 -affinity filename transform image colors to match this set of colors
 -append
                 append an image sequence top to botto (use +append for left to right)
 -clut
               apply a color lookup table to the image
 -coalesce
                 merge a sequence of images
 -combine
                  combine a sequence of images
 -compare
                  mathematically and visually annotate the difference between an image and its
reconstruction
 -complex operator perform complex mathematics on an image sequence
 -composite
                  composite image
 -copy geometry offset,
             copy pixels from one area of an image to another
 -crop geometry
                    cut out a rectangular region of the image
 -deconstruct
                  break down an image sequence into constituent parts
 -evaluate-sequence operator
              evaluate an arithmetic, relational, or logical expression
 -flatten
                flatten a sequence of images
 -fx expression
                   apply mathematical expression to an image channel(s)
 -hald-clut
                 apply a Hald color lookup table to the image
 -morph value
                   morph an image sequence
 -mosaic
                 create a mosaic from an image sequence
 -poly terms
                  build a polynomial from the image sequence and the corresponding terms
(coefficients and degree pairs)
```

-process arguments process the image with a custom image filter

write images to this file

separate an image channel into a grayscale image

smush an image sequence together

-separate

-smush geometry

-write filename

Image Stack Operators:

-delete indexes delete the image from the image sequence

-duplicate count, indexes

duplicate an image one or more times

-insert index insert last image into the image sequence

-reverse reverse image sequence

-swap indexes swap two images in the image sequence

Miscellaneous Options:

-debug events display copious debugging information

-distribute-cache port

distributed pixel cache spanning one or more servers

-help print program options

-log format format of debugging information

-list type print a list of supported option arguments

-version print version information

By default, the image format of 'file' is determined by its magic number. To specify a particular image format, precede the filename with an image format name and a colon (i.e. ps:image) or specify the image type as the filename suffix (i.e. image.ps). Specify 'file' as '-' for standard input or output.

SEE ALSO

ImageMagick(1)

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