NAME

convert - convert between image formats as well as resize an image, blur, crop, despeckle, dither, draw on, flip, join, re-sample, and much more.

SYNOPSIS

convert-im6.q16 [input-option] input-file [output-option] output-file

OVERVIEW

The convert-im6.q16 program is a member of the ImageMagick-ims6.q16(1) suite of tools. Use it to convert between image formats as well as resize an image, blur, crop, despeckle, dither, draw on, flip, join, resample, and much more.

For more information about the convert command, point your browser to file:///usr/share/doc/imagemagick-6-common/html/www/convert.html (on debian system you may install the imagemagick-6 package) or https://www.imagemagick.org/script/convert.php.

DESCRIPTION

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Image Settings:
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-adjoin join images into a single multi-image file

-affine matrix affine transform matrix

-alpha option activate, deactivate, reset, or set the alpha channel

-antialias 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 -channel type apply option to select image channels -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

-colors value preferred number of colors in the image

-colorspace type alternate image colorspace -comment string annotate image with comment -compose operator set image composite operator

type of pixel compression when writing the image -compress type

-decipher filename convert cipher pixels to plain pixels

-define format:option

define one or more image format options

-delay value display the next image after pausing

-density geometry horizontal and vertical density of the image

-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)

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```
-fill color
               color to use when filling a graphic primitive
-filter type
                use this filter when resizing an image
-flatten
               flatten a sequence of images
-font name
                 render text with this font
-format "string"
                   output formatted image characteristics
-fuzz distance
                  colors within this distance are considered equal
-gravity type
                 horizontal and vertical text placement
-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
-mask filename
                   associate a mask with the image
-matte
               store matte channel if the image has one
-mattecolor color frame color
-metric type
                 measure differences between images with this metric
-moments
                  report image moments
-monitor
                 monitor progress
-orient type
                 image orientation
-page geometry
                    size and location of an image canvas (setting)
-ping
               efficiently determine image attributes
                  font point size
-pointsize value
-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
-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
-repage geometry
                   size and location of an image canvas
-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
                   width and height of image
-size geometry
-statistic type geometry
            replace each pixel with corresponding statistic from the neighborhood
-stretch type
                 render text with this font stretch
-stroke color
                 graphic primitive stroke color
-strokewidth value graphic primitive stroke width
                 render text with this font style
-style type
-support factor
                  resize support: > 1.0 is blurry, < 1.0 is sharp
-synchronize
                  synchronize image to storage device
-taint
              declare the image as modified
```

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-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
 -view
                FlashPix viewing transforms
-virtual-pixel method
             virtual pixel access method
-weight type
                   render text with this font weight
-white-point point chromaticity white point
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
 -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
-bench iterations measure performance
-black-threshold value
             force all pixels below the threshold into black
-blue-shift factor 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
                     detect edges in the image
 -canny geometry
 -charcoal radius
                    simulate a charcoal drawing
 -chop geometry
                     remove pixels from the image interior
-clamp
                 keep pixel values in range (0-QuantumRange)
               clip along the first path from the 8BIM profile
-clip
-clip-mask filename associate a clip mask with the image
                  clip along a named path from the 8BIM profile
-clip-path id
-colorize value
                   colorize the image with the fill color
-color-matrix matrix apply color correction to the image
 -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
              implements the discrete Fourier transform (DFT)
-fft
              flip image vertically
-flip
-floodfill geometry color
            floodfill the image with color
              flop image horizontally
-flop
-frame geometry
                    surround image with an ornamental border
-function name
                   apply a function to the image
-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
-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
-interpolative-resize geometry
             resize image using 'point sampled' interpolation
-lat geometry
                  local adaptive thresholding
-layers method
                   optimize or compare image layers
-level value
                 adjust the level of image contrast
-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
                 double the size of the image with pixel art scaling
-magnify
-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
                    transform image to black and white
-monochrome
-morphology method kernel
            apply a morphology method to the image
-motion-blur geometry
            simulate motion blur
-negate
                replace each pixel with its complementary color
-noise geometry
                    add or reduce noise in an image
-normalize
                 transform image to span the full range of colors
-opaque color
                   change this color to the fill color
-ordered-dither NxN
            add a noise pattern to the image with specific amplitudes
```

```
-paint radius
                 simulate an oil painting
-perceptible epsilon
            pixel value less than epsilon become epsilon or -epsilon
-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
-region geometry
                    apply options to a portion of the image
-render
                render vector graphics
-resample geometry change the resolution of an image
-resize geometry resize the image
-roll geometry
                  roll an image vertically or horizontally
-rotate degrees
                  apply Paeth rotation to the image
                     scale image with pixel sampling
-sample geometry
-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
-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
-strip
              strip image of all profiles and comments
-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
-transform
                 affine transform image
-transparent color make this color transparent within the image
-transpose
                 flip image vertically and rotate 90 degrees
-transverse
                 flop image horizontally and rotate 270 degrees
               trim image edges
-trim
-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-threshold value
             force all pixels above the threshold into white
Image Sequence Operators:
 -append
                  append an image sequence top to bottom (use +append for left to right)
 -clut
               apply a color lookup table to the image
```

merge a sequence of images -coalesce combine a sequence of images -combine

-compare mathematically and visually annotate the difference between an image and its recon-

struction

-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 cut out a rectangular region of the image -crop geometry

-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 separate an image channel into a grayscale image -separate

-smush geometry smush an image sequence together

-write filename write images to this file

Image Stack Operators:

-clone indexes clone an image

-delete indexes delete the image from the image sequence

-duplicate count, indexes

duplicate an image one or more times

insert last image into the image sequence -insert index

-reverse reverse image sequence

-swap indexes swap two images in the image sequence

Miscellaneous Options:

display copious debugging information -debug events

-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

Use any setting or operator as an output-option. Only a limited number of setting are input-option. They include: -antialias, -caption, -density, -define, -encoding, -font, -pointsize, -size, and -texture as well as any of the miscellaneous options.

Date: 2009/01/10 01:00:00 ImageMagick 6 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-ims6.q16(1)

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