
Subject: Re: GIF compression support in ImageMagick - Re-Post

Posted by [Mark Hadfield](#) on Tue, 09 Nov 2004 20:42:34 GMT

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Lince M Lawrence wrote:

>
> I will explain...
>
> We do "convert -antialias -transparent white -trim -depth 16 -colors
> 16 \$1 \$2" and we get... (in Image Magic)
> =====
> Image: si1.gif
> Format: GIF (CompuServe graphics interchange format)
> Geometry: 7x7
> Class: PseudoClass
> Type: grayscale with transparency
> Depth: 8 bits-per-pixel component
> Colors: 16
> [snip]
>
> But.. we want...
> =====
> Image: si1finished.gif
> Format: GIF (CompuServe graphics interchange format)
> Geometry: 9x7
> Class: PseudoClass
> Type: palette with transparency
> Depth: 8 bits-per-pixel component
> Colors: 16
> 0: (0, 0, 0) opaque
> 1: (8224, 8224, 8224) #202020
> 2: (24415,24415,24415) #5f5f5f
> 3: (42148,42148,42148) #a4a4a4
> 4: (53970,53970,53970) #d2d2d2
> 5: (59110,59110,59110) #e6e6e6
> 6: (63479,63479,63479) grey97
> 7: (65535,65535,65535) white
> 8: (32896,32896,32896) #808080
> 9: (65535, 0, 0) red
> 10: (0,65535, 0) #00ff00
> 11: (65535,65535, 0) yellow
> 12: (0, 0,65535) blue
> 13: (65535, 0,65535) #ff00ff
> 14: (0,65535,65535) cyan
> 15: (65535,65535,65535) white
> [snip]
>
> This result is obtained by another batch process in GraphicConverter

> after the comand-line batch in Magic. Will I get this in a single
> step? What change should I make in the command.

I'm sure you *can* get the image parameters you want in ImageMagick. I'm no IM expert, however, so I'm not sure how. You may be better off asking this question on the ImageMagick "Users" mailing list. See

<mailto:magick-users@imagemagick.org>
<http://www.imagemagick.org/www/magick-list.html>

One thing that occurs to me: why did you set "-depth 16" above? This appears to have persuaded IM to create a gray-scale image.

I just went through the exercise of saving an EPS file (test.eps) from IDL then converting it to GIF format with

```
convert -verbose -antialias -transparent white -colors 16 test.eps  
test16.gif
```

(For some reason I need the -verbose option here. Without it, IM opens the Ghostscript interpreter but does not run it. Odd.)

This creates a reasonable-looking, if coarse, 16-colour GIF--see output below my signature from

```
identify -verbose test16.gif
```

Or do you want a specific set of 16 colours? I'm sure this can be done too, but I don't know how.

--

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Image: test16.gif
Format: GIF (CompuServe graphics interchange format)
Geometry: 387x344
Class: PseudoClass
Colorspace: RGB
Type: PaletteMatte
Depth: 8 bits
Endianess: Undefined
Channel depth:
 Red: 8-bits
 Green: 8-bits
 Blue: 8-bits

Opacity: 1-bits
Channel statistics:

Red:

Min: 3
Max: 255
Mean: 160.822
Standard deviation: 110.361

Green:

Min: 4
Max: 255
Mean: 179.791
Standard deviation: 94.0356

Blue:

Min: 3
Max: 255
Mean: 175.115
Standard deviation: 100.59

Opacity:

Min: 0
Max: 255
Mean: 130.553
Standard deviation: 127.464

Colors: 16

0: (44, 15, 50, 0) #2C0F3200
1: (4, 4,162, 0) #0404A200
2: (4, 23,223, 0) #0417DF00
3: (3, 97,162, 0) #0361A200
4: (17, 72,197, 0) #1148C500
5: (3,161,100, 0) #03A16400
6: (18,227, 21, 0) #12E31500
7: (99,164, 3, 0) #63A40300
8: (35,199, 47, 0) #23C72F00
9: (164,103, 4, 0) #A4670400
10: (227, 22, 4, 0) #E3160400
11: (172, 24, 8, 0) #AC180800
12: (255,255,255, 0) grey100
13: (208,208,208, 0) #D0D0D000
14: (173,173,173, 0) grey68
15: (77,137, 73, 0) #4D894900

Histogram:

4088: (44, 15, 50, 0) #2C0F3200
3623: (4, 4,162, 0) #0404A200
8943: (4, 23,223, 0) #0417DF00
5643: (3, 97,162, 0) #0361A200
4040: (17, 72,197, 0) #1148C500
6851: (3,161,100, 0) #03A16400
7489: (18,227, 21, 0) #12E31500
3466: (35,199, 47, 0) #23C72F00

5424: (99,164, 3, 0) #63A40300
406: (77,137, 73, 0) #4D894900
3156: (172, 24, 8, 0) #AC180800
4675: (164,103, 4, 0) #A4670400
5461: (227, 22, 4, 0) #E3160400
994: (173,173,173, 0) grey68
711: (208,208,208, 0) #D0D0D000
68158: (255,255,255,255) #FFFFFFFF

Rendering-intent: Undefined

Resolution: 72x72

Units: Undefined

Filesize: 15kb

Interlace: None

Background Color: grey100

Border Color: #DFDFDF00

Matte Color: grey74

Page geometry: 387x344+0+0

Dispose: Undefined

Compression: LZW

Orientation: Undefined

comment: Image generated by AFPL Ghostscript (device=pngmraw)

signature:

3f0fad2b87d2cf9f9a0dba6186899f0cc91c7d0b3e8472282d3e25ae94b3 43bb

Tainted: False

User Time: 0.000u

Elapsed Time: 0:01