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Given a .gif, return the color components as X11-style hexadecimal specifiers (or equivalents)

I am a fan of `potrace` , and I recently read the Potrace FAQ.

The FAQ includes this beautiful one-liner:

```
cat img.gif | giftopnm | ppmcolormask #641b1b | potrace
```

The command I am looking for would return the codes of all the colors to be parsed by `ppmcolormask` . It could return, according to `man ppmcolormask` :

```
You can specify color five ways:

o       An X11-style color name (e.g.  black).

o       An  X11-style  hexadecimal specifier: rgb:r/g/b, where r g and b
        are each 1- to 4-digit hexadecimal numbers.

o       An X11-style decimal specifier: rgbi:r/g/b, where r g and b  are
        floating point numbers between 0 and 1.

o       For  backwards  compatibility, an old-X11-style hexadecimal num-
        ber: #rgb, #rrggbb, #rrrgggbbb, or #rrrrggggbbbb.

o       For backwards compatibility, a triplet of numbers  separated  by
        commas:  r,g,b,  where  r  g  and  b  are floating point numbers
        between 0 and 1.  (This style was added before MIT came up  with
        the similar rgbi style.)
```

/ image-manipulation   / netpbm

asked Feb 16 '12 at 16:33

ixtmixilix
3,090   2   25   51

1 Answer

```
cat foo.gif | giftopnm | ppmhist -noheader -hexcolors | awk '{ print
"rgb:"$1"/"$2"/"$3 }'
```

will give you a list of all the colors in X11 rgb:r/g/b format.

answered Feb 16 '12 at 17:44

Kyle Jones
6,327   1   7   23