Subject: Re: changing colors
Posted by MICHEL KRUGLANSKI on Thu, 01 Aug 1996 07:00:00 GMT
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Hi,

1/ make first a simple test:

```
idl
  > window, 0
  > print, !d.n_colors
  > loadct, 3
  > palette
```

then, you will know how many colors you get and if
the colors appear correctly on your screen.

Now, if you want to use a fixed number of colors,
you must start IDL as follow:

```
idl
  > device, pseudo = 8
  > window, col = 256
```

(see Reference Guide, Chapter 3, section 'Using Color Under X')

```
  > loadct, 3
  > palette
```

2/ you can use only one color table. So, if you have a greyscale
picture and you want to trace a red line, you need a color
table which include greyscale and red...

```
idl
  > device, pseudo = 8
  > window, col = 256
  > r=[    0,  0,  0,  0,  0,  0,  0,128,255,255,255,255,255,222,220,255,       $
  >    0,  2,  4,  6,  9, 11, 13, 16, 18, 20, 22, 25, 27, 29, 32, 34, 36, 39, 41, $
  >    43, 45, 48, 50, 52, 55, 57, 59, 62, 64, 66, 68, 71, 73, 75, 78, 80, 82, 85 ]
  > r=[r,87, 89, 91, 94, 96, 98,101,103,105,107,110,112,114,117,119,121,124,126,128, $
  >     130,133,135,137,140,142,144,147,149,151,153,156,158,160,163, 165,167,170,172, $
  >     174,176,179,181,183,186,188,190,192,195,197,199,202,204,206, 209,211,213,215 ]
  > r=[r,    218,220,222,225,227,229,232,234,236,238,241,243,245,248,250, 252,255, $
  >    0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0, $
  >    0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0 ]
  > r=[r, 0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  9, 25, 41, 57, 73, 90,106,122,138, $
  >    154,170,187,203,219,235,255,                                          $
  >    0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0 ]
```

```
> r=[r, 0,  0,  0,  0,  0,  0,  0,  0,  0,  7, 37, 67, 97,125,145,165,185,200,202, $
>    204,206,208,210,213,215,217,219,221,223,225,227,229,231,233, 235,237,239,241, $
>    243,245,247,249,251,253,255 ]
> g=[    0,168,255,255,255,255,  0,  0,  0,  0,  0,  0,  0,190,220,255,           $
>    0,  2,  4,  6,  9, 11, 13, 16, 18, 20, 22, 25, 27, 29, 32, 34, 36, 39, 41, $
>   43, 45, 48, 50, 52, 55, 57, 59, 62, 64, 66, 68, 71, 73, 75, 78, 80, 82, 85 ]
> g=[g,87, 89, 91, 94, 96, 98,101,103,105,107,110,112,114,117,119,121,124,126,128, $
>    130,133,135,137,140,142,144,147,149,151,153,156,158,160,163, 165,167,170,172, $
>    174,176,179,181,183,186,188,190,192,195,197,199,202,204,206, 209,211,213,215 ]
> g=[g,    218,220,222,225,227,229,232,234,236,238,241,243,245,248,250, 252,255,        $
>    0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0, $
>    0,  0,  0,  0,  0,  2,  9, 15, 21, 28, 34, 41, 47, 53, 60, 66, 73, 79, 85 ]
> g=[g,92,  98,105,111,119,126,132,138,145,151,158,164,170,177,183,190,1 96,203,209, $
>    215,222,228,235,241,247,255,                                          $
>    0,  0,  0,  0,  0,  0,  0,  0,  0, 12, 25, 37, 50, 62, 75, 87,100,112,125 ]
> g=[g,   137,150,150,150,150,149,146,144,141,137,127,117,107, 93, 68, 43, 18,  2, 11, $
>    20, 29, 39, 48, 59, 69, 78, 87, 96,106,115,124,133,142,152,161,170,179,189, $
>    198,207,216,226,235,244,255 ]
> b=[    0,  0,  0, 84,168,255,255,255,220,180,128, 64,  0,190,220,255,           $
>    0,  2,  4,  6,  9, 11, 13, 16, 18, 20, 22, 25, 27, 29, 32, 34, 36, 39, 41, $
>    43, 45, 48, 50, 52, 55, 57, 59, 62, 64, 66, 68, 71, 73, 75, 78, 80, 82, 85 ]
> b=[b,87, 89, 91, 94, 96, 98,101,103,105,107,110,112,114,117,119,121,124,126,128, $
>    130,133,135,137,140,142,144,147,149,151,153,156,158,160,163, 165,167,170,172, $
>    174,176,179,181,183,186,188,190,192,195,197,199,202,204,206, 209,211,213,215 ]
> b=[b,    218,220,222,225,227,229,232,234,236,238,241,243,245,248,250, 252,255,        $
>    0,  5, 10, 16, 21, 27, 32, 37, 43, 48, 54, 59, 65, 70, 75, 81, 86, 92, 97, $
>    103,108,115,120,126,131,136,142,147,153,158,164,169,174,180, 185,191,196,202 ]
> b=[b,    207,212,218,223,230,236,241,246,252,255,255,255,255,255,255, 255,255,255,255,
$
>    255,255,255,255,255,255,255,                                          $
>    0,  8, 16, 25, 33, 41, 50, 58, 66, 75, 83, 91,100,100,100,100,100,100,100 ]
> b=[b,   100,100, 84, 71, 59, 46, 34, 21,  9,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0, $
>    0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0, $
>    0,  0,  0,  0,  0,  0,  0 ]
>
> tvlct, r, g, b
>
> nx   = 100
> ny   = 100
> pict = dist(100,100)
> contour, pict, /nodata
>
> newx = fix( (!x.crange(1)-!x.crange(0))*!x.s(1)*!d.x_size )
> newy = fix( (!y.crange(1)-!y.crange(0))*!y.s(1)*!d.y_size )
> pix1 = interpolate( pict, (nx-1)*findgen(newx)/(newx-1) ,$
>                   (ny-1)*findgen(newy)/(newy-1) , /grid)
>
> pix2 = 16+bytscl( pict, top=111 )
```

> tv, pix2, !x.crange(0), !y.crange(0), /data
>
> oplot, !x.crange, !y.crange, color=12