Subject: reversing background color in maps
Posted by T Bowers on Fri, 19 Feb 1999 08:00:00 GMT
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OK, guys and gals...
I'm trying to create a plot here that has a world map overplotted
with my data positions. I can do that OK. My problem is that
it plots as white on a black background. I need to reverse this
and have a white background. For simplicity, I'm using the
tek_color ct. I thought, hmmm... I'll just swap the black and
white entries in the ct, and I'll be set. Right? Like this...

```
 ;//Save original color table
 tvlct, old_r,old_g,old_b, /get

;//Set up colors for plotting
tek_color
BLACK = 0
WHITE = 1
RED = 2
GREEN = 3
BLUE = 4
ORANGE = 8
;//Reverse BLACK/WHITE
tvlct, 255,255,255,0
tvlct, 0,0,0,1
WHITE = 0
BLACK = 1
```

When I run it like this, I do get a white background but the box labels
(from map_grid,/box) are gone and I get the lat lon grid lines in black
even tho I didn't want grid lines at all (/grid not set in map_set). Anybody
know of a way to get this workin' correctly??

```
print, !version
{ x86 Win32 Windows 5.0.2 Jul 23 1997}
```
I'm kinda in the process of upgrading to 5.2, so please let me know if
this works as wanted in 5.2.

Thanks alot,
t bowers

Here's pretty much what the plotting stuff looks like if ya wanna know.

```
;//Find all unigue lons/lats in data
lon = (dataArray[lonIndex,*])[UNIQ(dataArray[lonIndex,*],
SORT(dataArray[lonIndex,*]))]
lat = (dataArray[latIndex,*])[UNIQ(dataArray[latIndex,*],
```

```
SORT(dataArray[latIndex,*]))]

;//Append current lon/lat to lon/lat array list. I'll plot these arrays
(lons/lats) as data positions
lons = [lons,lon]
lats = [lats,lat]

;//Set up a margin that's a certain % of lat lon delta.
;// e.g 0.15 = margin extending 15% beyond bounds of data
margin = 0.15

;//I'll use these in upcoming call to map_set
minLon = min(lons,max=maxLon)
minLat = min(lats,max=maxLat)
lonMargin = (maxLon - minLon) * margin
latMargin = (maxLat - minLat) * margin
midLon = median(lons, /even)
midLat = median(lats, /even)

;//Set up map centered on data and extending margin % beyond data positions
map_set,  midLat, midLon, $
 /TRANSVERSE_MERCATOR, $
 /ISOTROPIC, $
 xmargin=[3,3], $
 ymargin=[2,2], $
 limit=[(minLat - latMargin), (minLon - lonMargin), $
  (maxLat + latMargin), (maxLon + lonMargin)]

;//Make it look good with /box
map_grid, /box

;//Overlay coasts, etc.
map_continents, /coasts, color=GREEN, /hires
map_continents, /rivers, color=BLUE, /hires
map_continents, /countries, /USA, color=ORANGE, /hires

;//Overplot the data positions
oplot, lons, lats, psym=3, color = RED

;//Restore original color table
 tvlct, old_r,old_g,old_b
```

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