
Subject: Re: cgScaleVector and diverging colorbar help
Posted by [David Fanning](#) on Thu, 25 Jun 2015 16:16:11 GMT
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sam.tushaus@gmail.com writes:

- > Hello all! I'm trying to create a plot with a diverging colorbar. I would like white to correspond to 0, and my data is typically in the range [-5,70] on a latitude-longitude grid.
- >
- > I've been using this page (http://www.idlcoyote.com/code_tips/scaleimage.html) as a reference. The first problem comes when I try to use cgImage to display my scaled data - the map becomes highly distorted. Is there any way to fix this?
- >
- > My second problem comes when I try to use cgContour to display my scaled data instead of cgImage. The contouring looks generally correct, but the whole range of the colorbar is used in the contouring. This is a problem because my data range is [-5,70] and I want 0 to be white.
- >
- > I really appreciate any comments or hints on how to fix this

```
data = cgScaleVector(cgDemoData(7), -5, 70)
Loadct, 0 ; Reset colors
cgLoadct, 1, NColors=10, Clip=[100,250]
cgLoadCt, 3, NColors=140, Bottom=11, /Reverse
TVLCT, cgColor('white', /Triple), 10
cgImage, BytScl(data, Top=151), Position=[0.125, 0.1, 0.925, 0.75]
cgColorbar, NColors=151
cIndex
END
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
