
Subject: Re: How to plot multiple cgContour plots using the same colour levels (but containing differing data)

Posted by manodeep@gmail.com on Tue, 31 May 2011 03:25:40 GMT

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On May 30, 9:20 pm, Balt <bindermue...@gmail.com> wrote:

> Well, since by clipping to less than the max value I'm always going to
> be below the max color palette entry, out of bounds should not be a
> condition that ever occurs?
>
> Chees
>
> - Balt

The way I have done it in the past is by getting the global (min,max) of all the data sets. The global min corresponds to color 0 and the global max to color 255. Now you have to scale the individual data sets:

```
Ncolors = 255
data_color_range = (data_max-data_min)/(global_max-
global_min)*Ncolors
data_color_max  = (data_max/global_max*Ncolors) < Ncolors
data_color_min  = (data_color_max - data_color_range) > 0
data = byte(scale_vector(data,data_color_min,data_color_max))
```

...rinse, repeat for each data set.

The colorbar can then plotted as usual ranging from global_min to global_max in data space and 0-Ncolors in color space.

Cheers,
Manodeep
