
Subject: Re: color mapping question

Posted by [David Foster](#) on Thu, 29 Aug 1996 07:00:00 GMT

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Christian Soeller wrote:

>
> gennari@universe.Hawaii.edu (Scott Gennari) writes:
>
>> I have a 256 color grayscale image and i'd like to overlay a
>> coastline with some color (red). How would I stretch the grayscale
>> data values to fit 0-254 and reserve value 255 for a certain rgb
>> color? I'm Not having much luck with STRETCH,0,254 and then assigning
>> a rgb color to 255.
>
> Even on a 256 color display IDL will in general only have a subset of all
> those colors as a few are normally already allocated by other applications.
> The actual number of colors available to IDL can be found in the sys var
> !D.TABLE_SIZE. So you might try to scale your data to 0...!D.TABLE_SIZE-2
> and assign the color number !D.TABLE_SIZE-1 to red (colors 0...!D.TABLE_SIZE-2
> set to shades of grey from 0 to 255). You get the idea. See also documentation
> for the TVSCL procedure.

I use the following routines I've written to do this. If any look
useful to you let me know and I'll mail them to you.

BYTE_SCALE.PRO : scale contents of array between specified upper
and lower bounds

GRAYSCALE.PRO : Small popup widget with sliders to allow grayscale
adjustments. Can specify reserved colors.

ADJUST_PALETTE.PRO : Adjust RGB values for individual color index.

ADJUST_COLORS.PRO : Widget that lets you interactively adjust the
colors for any color index.

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