
Subject: Plotting points in fainter color on an IDL plot
Posted by [Kaushal Sharma](#) on Fri, 15 Nov 2013 11:08:38 GMT
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Hello, I have a scatter plot in which there are some points which represent more reliable determinations than others. I want to plot both kinds of points in the same color but the less reliable ones in paler colors. In a sense, I want to change the brightness of few points on the plot. Is it possible in IDL? I am using color table 13 and plot and oplot procedure of IDL.

Thanks for the help,
Kaushal

Subject: Re: Plotting points in fainter color on an IDL plot
Posted by [David Fanning](#) on Fri, 15 Nov 2013 14:21:19 GMT
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Kaushal Sharma writes:

> Hello, I have a scatter plot in which there are some points which represent more reliable determinations than others. I want to plot both kinds of points in the same color but the less reliable ones in paler colors. In a sense, I want to change the brightness of few points on the plot. Is it possible in IDL? I am using color table 13 and plot and oplot procedure of IDL.

The general idea is to convert your RGB colors to HSL, modify the lightness or saturation, then convert back to RGB, which is what IDL requires. It looks like this:

```
cgLoadCT, 13
cIndex
TVLCT, r, g, b, GET=1
cgDisplay, 800, 400
cgPlot, cgDemoData(17), Color=255B, Layout=[2,1,1]
Color_Convert, r, g, b, hue, light, sat, /RGB_HLS
;light = light*0.5 ; Or whatever amount you need.
;sat = sat*0.5 ; Or whatever amount you need.
Color_Convert, hue, light, sat, r, g, b, /HLS_RGB
TVLCT, r, g, b
cIndex
cgPlot, cgDemoData(17), Color=255B, Layout=[2,1,2]
END
```

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Plotting points in fainter color on an IDL plot
Posted by [Kaushal Sharma](#) on Thu, 23 Jan 2014 07:27:11 GMT
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On Friday, November 15, 2013 4:38:38 PM UTC+5:30, Kaushal Sharma wrote:

> Hello, I have a scatter plot in which there are some points which represent more reliable
determinations than others. I want to plot both kinds of points in the same color but the less
reliable ones in paler colors. In a sense, I want to change the brightness of few points on the plot.
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> Thanks for the help,

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> Kaushal

Thank you very much David. Your suggested solution worked for me.

Thank you once again.
