Subject: Re: Using VERT_COLORS=RGBA in PLOT()?
Posted by dg86 on Tue, 13 May 2014 20:41:57 GMT
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On Tuesday, May 13, 2014 1:52:48 PM UTC-4, Chris Torrence wrote:
> On Tuesday, May 13, 2014 10:27:55 AM UTC-6, David Grier wrote:
>
>> Dear Folks,
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>
>> I am trying to create a scatter plot in IDL 8.3 (MacOS)
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>
>> whose symbols have different colors and alpha values.
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>
>> The documentation for plot() suggests that I should be able to pass a 4 x NPTS array of
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>
>> RGBA values to the VERT_COLORS property of plot(), where NPTS is the number of points
in
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>>
>
>> my data set. When I try this, IDL complains:
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>
>> % PLOT: Array subscript for PALETTE must have same size as source expression.
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>> Here's a minimal example:
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>
>> npts = 10
>
>>
>
>> a = findgen(2,npts)
>
>>
>
>> rgb = bytarr(3,npts)
>
>>
>
>> p1 = plot(a, vert_colors=rgb) ; works
>
>>
>
>> p2 = plot(a, vert_colors=rgba) ; doesn't work
>
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>> I'd be grateful for pointers on how to set the transparency of individual vertices
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>>
>
>> in a plot.
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>> Many thanks,
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>> David
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>
> Hi David,
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>
> Looks like a bug. I'll go ahead and fix it. In the meantime, the workaround is to set the vert_colors after the plot has been created. You also need to set an rgb_table (this will also get fixed). Something like this:
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>
> npts = 10
>
> a = findgen(2,npts)
>
> rgba = bytarr(4,npts)
>
> rgba[3,*] = 20b*bindgen(npts)
>
> p2 = plot(a)
>
> p2.rgb_table=0
>
> p2.vert_colors=rgba
>
>
>
> Thanks for catching this!
>
> -Chris
>
> ExelisVIS

This is perfect. Thanks for the fix!

TTFN,

David