
Subject: Help with iSurface colors

Posted by skymaxwell@gmail.com on Thu, 06 Dec 2007 17:15:19 GMT

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Good day

i create surface in iSurface tool. But it's color little bad for data
analysys - there is only one color.

Can I set, for example, blue color for minimum values and red color
for maximum values ?

Thanks

Subject: Re: Help with iSurface colors

Posted by [Vince Hradil](#) on Thu, 06 Dec 2007 17:35:01 GMT

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On Dec 6, 11:15 am, "skymaxw...@gmail.com" <skymaxw...@gmail.com>
wrote:

> Good day

>

> i create surface in iSurface tool. But it's color little bad for data

> analysys - there is only one color.

>

> Can I set, for example, blue color for minimum values and red color

> for maximum values ?

>

> Thanks

The surface can only be one color - do want to color the values
according the the z-value? Maybe you can warp an image onto it?
That's beyond me... sorry.

Subject: Re: Help with iSurface colors

Posted by [David Fanning](#) on Thu, 06 Dec 2007 17:43:10 GMT

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Vince Hradil writes:

> The surface can only be one color - do want to color the values

> according the the z-value? Maybe you can warp an image onto it?

If so, here is an article that might help:

http://www.dfanning.com/ographics_tips/elevation_object.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Help with iSurface colors

Posted by [Vince Hradil](#) on Thu, 06 Dec 2007 18:14:46 GMT

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On Dec 6, 11:35 am, Vince Hradil <hrad...@yahoo.com> wrote:

> On Dec 6, 11:15 am, "skymaxw...@gmail.com" <skymaxw...@gmail.com>

> wrote:

>

>> Good day

>

>> i create surface in iSurface tool. But it's color little bad for data

>> analysys - there is only one color.

>

>> Can I set, for example, blue color for minimum values and red color

>> for maximum values ?

>

>> Thanks

>

> The surface can only be one color - do want to color the values

> according the the z-value? Maybe you can warp an image onto it?

> That's beyond me... sorry.

Update - I found it, I think. Take a look at VERT_COLORS keyword.

Subject: Re: Help with iSurface colors

Posted by [David Fanning](#) on Thu, 06 Dec 2007 18:19:09 GMT

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Vince Hradil writes:

> Update - I found it, I think. Take a look at VERT_COLORS keyword.

I'll bet you read the article. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Help with iSurface colors

Posted by [Vince Hradil](#) on Thu, 06 Dec 2007 18:22:39 GMT

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On Dec 6, 12:19 pm, David Fanning <da...@dfanning.com> wrote:

> Vince Hradil writes:

>> Update - I found it, I think. Take a look at VERT_COLORS keyword.

>

> I'll bet you read the article. :-)

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Of course. I read all the links you post, David.

Subject: Re: Help with iSurface colors

Posted by [David Fanning](#) on Thu, 06 Dec 2007 18:28:25 GMT

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Vince Hradil writes:

> Of course. I read all the links you post, David.

No wonder you're not getting any work done. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Help with iSurface colors

Posted by skymaxwell@gmail.com on Sun, 09 Dec 2007 12:08:01 GMT

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i'm not sure that understand article because my result little strange :)

Here is fragment of my code

```
colors=[0,50,100,150,200]
data=p[68:98,2:9]
LOADCT,5,RGB_TABLE=c_table
; ISURFACE,data,VERT_COLORS=colors
; MINMAX,data
ISURFACE,data,RGB_TABLE=c_table,VERT_COLORS=colors
```

in article showing nice picture example for direct graphics... where i can look it's source code ?

Best regards

Subject: Re: Help with iSurface colors

Posted by [Vince Hradil](#) on Sun, 09 Dec 2007 13:47:09 GMT

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On Dec 9, 6:08 am, "skymaxw...@gmail.com" <skymaxw...@gmail.com> wrote:

```
> i'm not sure that understand article because my result little
> strange :)
> Here is fragment of my code
>
>     colors=[0,50,100,150,200]
>     data=p[68:98,2:9]
>     LOADCT,5,RGB_TABLE=c_table
> ;     ISURFACE,data,VERT_COLORS=colors
> ;     MINMAX,data
>     ISURFACE,data,RGB_TABLE=c_table,VERT_COLORS=colors
>
> in article showing nice picture example for direct graphics... where i
> can look it's source code ?
>
> Best regards
```

Look at the isurface help. vert_colors needs to be the same length as the data, or it will be repeated.

Subject: Re: Help with iSurface colors

Posted by skymaxwell@gmail.com on Sun, 09 Dec 2007 17:15:07 GMT

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well... the new surface is bad ...

now i'm not sure that VERT_COLORS is that i need

i have data[x,y]

axis x - x

axis y - y

axis z - data[x,y]

maximum value data[x,y] set to red color

minimum value data[x,y] set to blue color

and how use other colors between max and min values ?

without object graphics ?

Subject: Re: Help with iSurface colors

Posted by [Vince Hradil](#) on Sun, 09 Dec 2007 17:27:21 GMT

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On Dec 9, 11:15 am, "skymaxw...@gmail.com" <skymaxw...@gmail.com>
wrote:

> well... the new surface is bad ...

>

> now i'm not sure that VERT_COLORS is that i need

>

> i have data[x,y]

>

> axis x - x

> axis y - y

> axis z - data[x,y]

>

> maximum value data[x,y] set to red color

> minimum value data[x,y] set to blue color

> and how use other colors between max and min values ?

>

> without object graphics ?

This image:

<http://img511.imageshack.us/img511/7282/surfacedc6.png>

was made using:

isurface, dist(40), vert_colors=dist(40), rgb_table=5

Subject: Re: Help with iSurface colors

Posted by [David Fanning](#) on Sun, 09 Dec 2007 17:32:34 GMT

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skymaxwell@gmail.com writes:

> well... the new surface is bad ...
>
> now i'm not sure that VERT_COLORS is that i need

Oh, it's what you need, alright. :-)

>
> i have data[x,y]
>
> axis x - x
> axis y - y
> axis z - data[x,y]
>
> maximum value data[x,y] set to red color
> minimum value data[x,y] set to blue color
> and how use other colors between max and min values ?

Here is an article that describes how to create a color table between red and blue colors:

http://www.dfanning.com/color_tips/create_colortable.html

Once you get the color table constructed, you make a palette out of it like this:

```
palette = [[redVector],[greenVector], [blueVector]]
```

Then you use this palette and the VERT_COLORS as described in this article:

http://www.dfanning.com/ographics_tips/elevation_object.html

I can assure you, it works perfectly. :-)

> without object graphics ?

Sorry, we are moving into the future. :-)

But, if you had to:

```
TV, palette  
Surface, data, SHADES=BytScl(data)
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
