Subject: Re: Missing fill colours in contour plot Posted by tortoisesaregreat on Tue, 15 Jan 2013 22:07:12 GMT

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> > >

```
On Tuesday, 15 January 2013 20:56:23 UTC, Ij...@fsmail.net wrote:
```

> I am trying to do a contour plot of a latitude-longitude array, but I keep getting gaps in my plot, as shown in the following image: http://www.physics.open.ac.uk/~lsteele/contour.png. I'm stumped as to the reason, as it's not as if it's missing contours at the very end ranges of the contour values - it's somewhere in between. Anyhow, I'm sure the knowledgable folks on here will know!

> I have defined a blue-white-red colour scheme and loaded it in with tvlct, but the problem occurs with other colour schemes too. I am calculating my contour levels and colours as follows (with ncont the number of contours I'm plotting):

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>
>
         = floor(min(array))
> minv
>
  maxv = ceil(max(array))
>
  maxval = max([abs(array),abs(array)])
>
  clevels = -maxval + findgen(ncont)/(ncont-1)*2*maxval
>
>
       = floor(findgen(ncont)/(ncont-1)*250)
  ccol
>
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>
  I am then plotting my contour plot as:
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>
  device, decomposed=0
>
>
  bwr_colour, red_vec, grn_vec, blu_vec
>
>
  tvlct, red_vec, grn_vec, blu_vec
>
  contour, array, Ion, lat, $
>
        levels=clevels, c_colors=ccol, /fill, $
>
>
        background=cgColor('white'), color=cgColor('black'), $
>
>
        xrange=[-180,180], yrange=[-90,90], xstyle=1, ystyle=1, $
>
```

```
yticks=6, ytickv=[-90,-60,-30,0,30,60,90], $
>
>
       xticks=6, xtickv=[-180,-120,-60,0,60,120,180], $
>
       xtitle='Longitude', ytitle='Latitude', charsize=1.5, $
>
>
       title=plotsym+' (all motions) / g m!u-1!n s!u-1!n'
>
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>
  If anyone can offer any suggestions then I'll be very grateful, as it's bugging me now!
>
>
>
 Cheers,
>
>
> Liam
Sorry - I made a mistake when typing the code to the newsgroup. The maxval statement actually
reads:
maxval = max([abs(minv),abs(maxv)])
Subject: Re: Missing fill colours in contour plot
Posted by DavidF[1] on Tue, 15 Jan 2013 22:14:04 GMT
```

```
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```

On Tuesday, January 15, 2013 1:56:23 PM UTC-7, Ij...@fsmail.net wrote:

> I am trying to do a contour plot of a latitude-longitude array, but I keep getting gaps in my plot, as shown in the following image: http://www.physics.open.ac.uk/~lsteele/contour.png. I'm stumped as to the reason, as it's not as if it's missing contours at the very end ranges of the contour values

- it's somewhere in between. Anyhow, I'm sure the knowledgable folks on here will know! >

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```
>
>
         = floor(min(array))
> minv
          = ceil(max(array))
> maxv
```

> >

```
maxval = max([abs(array),abs(array)])
  clevels = -maxval + findgen(ncont)/(ncont-1)*2*maxval
       = floor(findgen(ncont)/(ncont-1)*250)
>
>
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>
>
  device, decomposed=0
>
>
  bwr_colour, red_vec, grn_vec, blu_vec
  tvlct, red vec, grn vec, blu vec
  contour, array, lon, lat, $
>
        levels=clevels, c colors=ccol, /fill, $
>
        background=cgColor('white'), color=cgColor('black'), $
>
>
        xrange=[-180,180], yrange=[-90,90], xstyle=1, ystyle=1, $
>
>
        yticks=6, ytickv=[-90,-60,-30,0,30,60,90], $
>
        xticks=6, xtickv=[-180,-120,-60,0,60,120,180], $
>
>
        xtitle='Longitude', ytitle='Latitude', charsize=1.5, $
>
        title=plotsym+' (all motions) / g m!u-1!n s!u-1!n'
>
>
```

> If anyone can offer any suggestions then I'll be very grateful, as it's bugging me now!

Just seeing "lon", "lat", and "contour" causes me to think that one of your problems is that you should be using the CELL_FILL keyword, rather than the FILL keyword.

http://www.idlcoyote.com/color_tips/fill_colors.html

If that doesn't work, I'd try cgCONTOUR. That routine will fill up the "normal" hole Contour creates.

http://www.idlcoyote.com/tips/contour hole.php

```
Subject: Re: Missing fill colours in contour plot
Posted by tortoisesaregreat on Wed, 16 Jan 2013 00:11:50 GMT
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```

```
On Tuesday, 15 January 2013 22:14:04 UTC, Coyote wrote:
> On Tuesday, January 15, 2013 1:56:23 PM UTC-7, Ij...@fsmail.net wrote:
>
>> I am trying to do a contour plot of a latitude-longitude array, but I keep getting gaps in my plot,
as shown in the following image: http://www.physics.open.ac.uk/~lsteele/contour.png. I'm stumped
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- it's somewhere in between. Anyhow, I'm sure the knowledgable folks on here will know!
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>> I have defined a blue-white-red colour scheme and loaded it in with tvlct, but the problem
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          = floor(min(array))
>> minv
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>> maxv = ceil(max(array))
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>>
>
>> maxval = max([abs(array),abs(array)])
>
>>
>
>> clevels = -maxval + findgen(ncont)/(ncont-1)*2*maxval
>>
```

```
>> ccol = floor(findgen(ncont)/(ncont-1)*250)
>>
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>>
>> I am then plotting my contour plot as:
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>> device, decomposed=0
>>
>> bwr_colour, red_vec, grn_vec, blu_vec
>>
>> tvlct, red_vec, grn_vec, blu_vec
>>
>
>> contour, array, lon, lat, $
>>
>
         levels=clevels, c_colors=ccol, /fill, $
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>
         background=cgColor('white'), color=cgColor('black'), $
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         xrange=[-180,180], yrange=[-90,90], xstyle=1, ystyle=1, $
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         yticks=6, ytickv=[-90,-60,-30,0,30,60,90], $
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>
         xticks=6, xtickv=[-180,-120,-60,0,60,120,180], $
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>
         xtitle='Longitude', ytitle='Latitude', charsize=1.5, $
>>
>
>>
         title=plotsym+' (all motions) / g m!u-1!n s!u-1!n'
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>>
>> If anyone can offer any suggestions then I'll be very grateful, as it's bugging me now!
>
> Just seeing "lon", "lat", and "contour" causes me to think that one of your problems is that you
should be using the CELL_FILL keyword, rather than the FILL keyword.
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>
>
    http://www.idlcoyote.com/color_tips/fill_colors.html
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>
> If that doesn't work, I'd try cgCONTOUR. That routine will fill up the "normal" hole Contour
creates.
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>
    http://www.idlcoyote.com/tips/contour_hole.php
>
>
>
> Cheers,
>
> David
```

Thanks David - I'll give both a try tomorrow and see what happens!

Subject: Re: Missing fill colours in contour plot Posted by Sir Loin Steak on Wed, 16 Jan 2013 09:51:49 GMT

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```
On Wednesday, January 16, 2013 12:11:50 AM UTC, tortoise...@gmail.com wrote:
> On Tuesday, 15 January 2013 22:14:04 UTC, Coyote wrote:
>> On Tuesday, January 15, 2013 1:56:23 PM UTC-7, Ij...@fsmail.net wrote:
>>
>
>>> I am trying to do a contour plot of a latitude-longitude array, but I keep getting gaps in my
plot, as shown in the following image: http://www.physics.open.ac.uk/~lsteele/contour.png. I'm
stumped as to the reason, as it's not as if it's missing contours at the very end ranges of the
contour values - it's somewhere in between. Anyhow, I'm sure the knowledgable folks on here will
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>>> I have defined a blue-white-red colour scheme and loaded it in with tvlct, but the problem
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>>> minv = floor(min(array))
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>>> maxv = ceil(max(array))
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>>> maxval = max([abs(array),abs(array)])
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>>> clevels = -maxval + findgen(ncont)/(ncont-1)*2*maxval
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>>> ccol = floor(findgen(ncont)/(ncont-1)*250)
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>>> contour, array, lon, lat, $
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levels=clevels, c_colors=ccol, /fill, $
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          background=cgColor('white'), color=cgColor('black'), $
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          xrange=[-180,180], yrange=[-90,90], xstyle=1, ystyle=1, $
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          yticks=6, ytickv=[-90,-60,-30,0,30,60,90], $
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          xticks=6, xtickv=[-180,-120,-60,0,60,120,180], $
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          xtitle='Longitude', ytitle='Latitude', charsize=1.5, $
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>> Cheers,
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>> David
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  Thanks David - I'll give both a try tomorrow and see what happens!
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Hmm, well neither cell_fill nor cgcontour fix the problem. I'll have to have another fiddle and see what I can do, but it seems like it should work!

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>>> maxv = ceil(max(array))
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>>> maxval = max([abs(array),abs(array)])
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>>> ccol = floor(findgen(ncont)/(ncont-1)*250)
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            xtitle='Longitude', ytitle='Latitude', charsize=1.5, $
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           title=plotsym+' (all motions) / g m!u-1!n s!u-1!n'
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>>>> If anyone can offer any suggestions then I'll be very grateful, as it's bugging me now!
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>>> Just seeing "lon", "lat", and "contour" causes me to think that one of your problems is that
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       http://www.idlcoyote.com/color_tips/fill_colors.html
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>>> Cheers,
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>
>
>

> Hmm, well neither cell_fill nor cgcontour fix the problem. I'll have to have another fiddle and see what I can do, but it seems like it should work!

Right, I've just done some more checking, and when I specify the colour values to range from 0-255 it works, but when I set them to range from 0-250 it doesn't. The two plots are shown at http://www.physics.open.ac.uk/~lsteele/contour2.

In the two plots shown, the left is done using ccol=floor(findgen(ncont)/(ncont-1)*255) and the right is done using ccol=floor(findgen(ncont)/(ncont-1)*250), with ncont=30. So, the only change is going from 255 to 250, with the contours being correct at 255.

Does anyone know why this would be causing a problem?

Cheers,

Liam

Subject: Re: Missing fill colours in contour plot Posted by David Fanning on Wed, 16 Jan 2013 14:15:50 GMT View Forum Message <> Reply to Message

ljs15@fsmail.net writes:

> Hmm, well neither cell_fill nor cgcontour fix the problem. I'll have to have another fiddle and see what I can do, but it seems like it should work!

If neither of those work, then I think the next thing to look for are unfounded assumptions in the input to the Contour routine. :-)

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: Missing fill colours in contour plot Posted by David Fanning on Wed, 16 Jan 2013 14:34:52 GMT View Forum Message <> Reply to Message

ljs15@fsmail.net writes:

- > Right, I've just done some more checking, and when I specify the colour values to range from 0-255 it works, but when I set them to range from 0-250 it doesn't. The two plots are shown at http://www.physics.open.ac.uk/~lsteele/contour2.
- > In the two plots shown, the left is done using ccol=floor(findgen(ncont)/(ncont-1)*255) and the right is done using ccol=floor(findgen(ncont)/(ncont-1)*250), with ncont=30. So, the only change is going from 255 to 250, with the contours being correct at 255.
- > Does anyone know why this would be causing a problem?

I think you have a fairly odd way of selecting colors and contours, which is causing a mismatch between the contours, the data, and the colors. What happens if you set the contours and colors up this way:

```
minv = Floor(min(array))
maxv = Ceil(max(array))
ncont = 30
clevels = Findgen(ncont) * ((maxv - minv) / ncont) + minv
LoadCT, 25, NCOLORS=ncont, BOTTOM=1
ccol= Bindgen(ncont)+1B
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

Subject: Re: Missing fill colours in contour plot

Posted by Sir Loin Steak on Wed, 16 Jan 2013 14:47:01 GMT

```
View Forum Message <> Reply to Message
On Wednesday, January 16, 2013 2:34:52 PM UTC, David Fanning wrote:
> ljs15@fsmail.net writes:
>
>
>
>> Right, I've just done some more checking, and when I specify the colour values to range from
0-255 it works, but when I set them to range from 0-250 it doesn't. The two plots are shown at
http://www.physics.open.ac.uk/~lsteele/contour2.
>
>>
>
>> In the two plots shown, the left is done using ccol=floor(findgen(ncont)/(ncont-1)*255) and the
right is done using ccol=floor(findgen(ncont)/(ncont-1)*250), with ncont=30. So, the only change is
going from 255 to 250, with the contours being correct at 255.
>
>>
>
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> ncont = 30
>
  clevels = Findgen(ncont) * ((maxv - minv) / ncont) + minv
>
 LoadCT, 25, NCOLORS=ncont, BOTTOM=1
 ccol= Bindgen(ncont)+1B
>
```

```
Cheers,
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.")
```

Hi David.

The reason for specifying the contours is that the data range from positive to negative values, and I'm using a blue-white-red colour scale to plot (+ve is red, -ve is blue).

In order to make sure white represents 0, I need to set the contour levels to span the maximum range. So if the data had minv = -20 and maxv = +50, I want the contours to range from -50 to +50.

There may be a better way of doing it than what I'm doing though!

Subject: Re: Missing fill colours in contour plot Posted by David Fanning on Wed, 16 Jan 2013 14:57:39 GMT View Forum Message <> Reply to Message

ljs15@fsmail.net writes:

- > The reason for specifying the contours is that the data range from positive to negative values, and I'm using a blue-white-red colour scale to plot (+ve is red, -ve is blue).
- > In order to make sure white represents 0, I need to set the contour levels to span the maximum range. So if the data had minv = -20 and maxv = +50, I want the contours to range from -50 to +50.
- > There may be a better way of doing it than what I'm doing though!

Well, I would do it like this:

```
maxval = Max(Abs(array))
 clevels = Scale Vector(Findgen(ncont), Floor(-maxval), Ceil(maxval))
 cgLoadCT, 22, /Brewer, /Reverse, NCOLORS=ncont, BOTTOM=1
 ccols = Bindgen(ncont)+1B
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: Missing fill colours in contour plot
Posted by Sir Loin Steak on Thu, 17 Jan 2013 17:34:06 GMT
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On Wednesday, January 16, 2013 2:57:39 PM UTC, David Fanning wrote:
> ljs15@fsmail.net writes:
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>>
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maximum range. So if the data had minv = -20 and maxv = +50, I want the contours to range from
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>
>>
>
   There may be a better way of doing it than what I'm doing though!
>>
>
>
  Well, I would do it like this:
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>
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>
>
   maxval = Max(Abs(array))
>
```

```
clevels = Scale_Vector(Findgen(ncont), Floor(-maxval), Ceil(maxval))
>
>
   cgLoadCT, 22, /Brewer, /Reverse, NCOLORS=ncont, BOTTOM=1
>
>
   ccols = Bindgen(ncont)+1B
>
>
>
> 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.")
```

Much neater than my hackneyed version. I'll revert to this method - thanks David.

P.S. I never realised there were Brewer colour tables. Whenever I've wanted blue-white-red I've always created my own. This will make my life much easier!

```
Subject: Re: Missing fill colours in contour plot
Posted by David Fanning on Thu, 17 Jan 2013 18:02:58 GMT
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```

ljs15@fsmail.net writes:

> P.S. I never realised there were Brewer colour tables. Whenever I've wanted blue-white-red I've always created my own. This will make my life much easier!

Yes, so will a lot of other Coyote Library routines. ;-)

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: Missing fill colours in contour plot Posted by Michael Galloy on Sun, 20 Jan 2013 18:25:01 GMT

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On 1/17/13 10:34 am, ljs15@fsmail.net wrote:

- > P.S. I never realised there were Brewer colour tables. Whenever I've
- > wanted blue-white-red I've always created my own. This will make my
- > life much easier!

Brewer color tables were added to IDL in 8.2.1.

Mike

--

Michael Galloy www.michaelgalloy.com Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com) Research Mathematician Tech-X Corporation