
Subject: Re: xpalette -> error messages

Posted by [davidf](#) on Sat, 27 Nov 1999 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dominik Brunner (dbrunner@dbrunner.demon.nl) writes:

- > I am using IDL extensively for contour plots on maps.
- > Often I would like to change the contour colors using xpalette.
- > The problem is now that changing a color or interpolating between colors
- > generates hundreds of error messages stating that some points are
- > out of lat/lon range. Why is this and how can I turn this off?

Whatever this is, it is NOT because you are changing colors. :-)

Rather, I suspect some kind of programming error. How exactly are you trying to use XPalette to change colors in your contour plot? Is this in a widget program? Do you leave XPalette on the display, while you try to change colors? I suspect this is probably the case.

I'm going to guess, in the absence of any evidence, that you are overplotting something onto your map display while XPalette is still on the display. What I think is happening is that you are using the axes ranges determined by the graphic displays in XPalette rather than the axes ranges determined by your map projection. If this is the case, simply save the axes ranges and restore them before you try to overplot. Typically with this kind of application you save !X, !Y, !P, and !Map. You probably don't need them *all*, but in this case overkill usually solves more problems than it creates. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: xpalette -> error messages
Posted by [davidf](#) on Mon, 29 Nov 1999 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Dominik Brunner (brunner@knmi.nl) writes:

```
>> Rather, I suspect some kind of programming error.
>
> No, I am not doing anything unusual. A simple example:
>
> Start IDL then execute:
>
> map_set,/continents
> xpalette
>
> Then moving one of the red,green,blue sliders in the xpalette
> widget produces hundreds of the following messages:
>
> % OPLOT: Value of Latitude is out of allowed range.
> % OPLOT: Value of Latitude is out of allowed range.
> % OPLOT: Value of Latitude is out of allowed range.
> % OPLOT: Value of Latitude is out of allowed range.
> .....
>
> I am using IDL 5.2 on an SGI workstation running IRIX 6.5 but I
> saw this also on a SUN.
> Any suggestions what causes this problem?
```

Oh, sorry, Dominik. Did you think I meant *your* programming error!? No indeed. I think there is an error in XPalette. :-)

I've done a quick look and it seems to me the problem is in the internal routine COLOR_CONVERT, although I can't imagine why this should be so. But I stand by my earlier theory that the problem is some assumption about the state of system variables. I think you need to ask RSI for help in this case.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: xpalette -> error messages

Posted by [Dominik Brunner](#) on Mon, 29 Nov 1999 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

David Fanning wrote:

>

> Dominik Brunner (dbrunner@dbrunner.demon.nl) writes:

>

>> I am using IDL extensively for contour plots on maps.

>> Often I would like to change the contour colors using xpalette.

>> The problem is now that changing a color or interpolating between colors

>> generates hundreds of error meessages stating that some points are

>> out of lat/lon range. Why is this and how can I turn this off?

>

> Whatever this is, it is NOT because you are changing

> colors. :-)

>

> Rather, I suspect some kind of programming error.

No, I am not doing anything unusual. A simple example:

Start IDL then execute:

```
map_set,/continents
```

```
xpalette
```

Then moving one of the red,green,blue sliders in the xpalette widget produces hundreds of the following messages:

```
% OPLOT: Value of Latitude is out of allowed range.
```

```
% OPLOT: Value of Latitude is out of allowed range.
```

```
% OPLOT: Value of Latitude is out of allowed range.
```

```
% OPLOT: Value of Latitude is out of allowed range.
```

```
.....
```

I am using IDL 5.2 on an SGI workstation running IRIX 6.5 but I saw this also on a SUN.

Any suggestions what causes this problem?

Regards,

Dominik

--

+
{|||}

=====
K N M I
=====

=====

Dr. Dominik Brunner ///-- --\\
KNMI (Royal Netherlands | [*] [*] |
Meteorological Institute) [] []
Section of Atmospheric Composition | () |
P.O. Box 201, 3730 AE De Bilt \ _ / /
The Netherlands \ _ /
E-mail brunner@knmi.nl
<http://www.knmi.nl/~brunner/>
Tel. -31-30-2206422 (direct) or -31-30-2206911
Fax -31-30-2210407
Visiting address: Wilhelminalaan 10, De Bilt

=====
