Subject: Re: Continuous colorbar
Posted by penteado on Mon, 28 Jun 2010 15:19:06 GMT
View Forum Message <> Reply to Message

On Jun 28, 11:35 am, zhangyehui <zhangye...@gmail.com> wrote:
> I want to draw a contour map of correlation coefficients with
> continuous color. As R varies between [-1, 1], I'd like those are
> close to 0 shown in white color and those are close to 1(-1) with
> darker colors. I usually use loadct colorbars. There are 41 colorbars.
> But I can't find a colorbar with a white color in the middle. So I
> just wondered if there is anyway I can do that. Thanks in advance.

Some of the Brewer tables have white in the middle, going to saturated
colors on different hues on each side. See

 http://michaelgalloy.com/2008/08/21/another-update-to-the-br ewer-color-table-file.html

You can always make your own table, it is just an array with the RGB,
HLS or HSV values for each index. The tricky part is deciding on how
to vary the colors along the table, which has an important effect on
how the resulting visualization is perceived.

Subject: Re: Continuous colorbar
Posted by David Fanning on Mon, 28 Jun 2010 15:42:55 GMT
View Forum Message <> Reply to Message

zhangyehui writes:

> I want to draw a contour map of correlation coefficients with
> continuous color. As R varies between [-1, 1], I'd like those are
> close to 0 shown in white color and those are close to 1(-1) with
> darker colors. I usually use loadct colorbars. There are 41 colorbars.
> But I can't find a colorbar with a white color in the middle. So I
> just wondered if there is anyway I can do that. Thanks in advance.

You can download a Brewer color table file here:

  http://www.dfanning.com/programs/fsc_brewer.tbl

Once the file is located somewhere on your IDL path,
you can use it with all of the color tools available
in the Coyote Library. And, in particular, with CTLOAD
or XCOLORS by setting the /BREWER keyword. There are
about 12 divergent color tables amoung the 28 offered.
I use them all the time for exactly this purpose.

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

Cheers,

David

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

Subject: Re: Continuous colorbar
Posted by zhangyehui on Mon, 28 Jun 2010 15:43:54 GMT
View Forum Message <> Reply to Message

On Jun 28, 11:19 am, Paulo Penteado <pp.pente...@gmail.com> wrote:
> On Jun 28, 11:35 am, zhangyehui <zhangye...@gmail.com> wrote:
>
>> I want to draw a contour map of correlation coefficients with
>> continuous color. As R varies between [-1, 1], I'd like those are
>> close to 0 shown in white color and those are close to 1(-1) with
>> darker colors. I usually use loadct colorbars. There are 41 colorbars.
>> But I can't find a colorbar with a white color in the middle. So I
>> just wondered if there is anyway I can do that. Thanks in advance.
>
> Some of the Brewer tables have white in the middle, going to saturated
> colors on different hues on each side. See
>
> http://michaelgalloy.com/2008/08/21/another-update-to-the-br ewer-colo...
>
> You can always make your own table, it is just an array with the RGB,
> HLS or HSV values for each index. The tricky part is deciding on how
> to vary the colors along the table, which has an important effect on
> how the resulting visualization is perceived.

Many thanks.
I found some tables I want in the Brewer tables. ^O^

Subject: Re: Continuous colorbar
Posted by Michael Galloy on Mon, 28 Jun 2010 16:02:43 GMT
View Forum Message <> Reply to Message

On 6/28/10 8:35 AM, zhangyehui wrote:

> Hi everyone,
>
> I want to draw a contour map of correlation coefficients with
> continuous color. As R varies between [-1, 1], I'd like those are
> close to 0 shown in white color and those are close to 1(-1) with
> darker colors. I usually use loadct colorbars. There are 41 colorbars.
> But I can't find a colorbar with a white color in the middle. So I
> just wondered if there is anyway I can do that. Thanks in advance.
>
> Ally

Try the diverging color tables in the Brewer color tables
(http://colorbrewer2.org/). I have made IDL versions of the color table
value that you can find at:

 http://michaelgalloy.com/2008/08/21/another-update-to-the-br ewer-color-table-file.html

Mike
--
www.michaelgalloy.com
Research Mathematician
Tech-X Corporation

Subject: Re: Continuous colorbar
Posted by zhangyehui on Mon, 28 Jun 2010 17:41:42 GMT
View Forum Message <> Reply to Message

On Jun 28, 12:02 pm, mgalloy <mgal...@gmail.com> wrote:
> On 6/28/10 8:35 AM, zhangyehui wrote:
>
>> Hi everyone,
>
>> I want to draw a contour map of correlation coefficients with
>> continuous color. As R varies between [-1, 1], I'd like those are
>> close to 0 shown in white color and those are close to 1(-1) with
>> darker colors. I usually use loadct colorbars. There are 41 colorbars.
>> But I can't find a colorbar with a white color in the middle. So I
>> just wondered if there is anyway I can do that. Thanks in advance.
>
>> Ally
>
> Try the diverging color tables in the Brewer color tables
> (http://colorbrewer2.org/). I have made IDL versions of the color table
> value that you can find at:
>
> http://michaelgalloy.com/2008/08/21/another-update-to-the-br ewer-colo...

>
> Mike
> --www.michaelgalloy.com
> Research Mathematician
> Tech-X Corporation

Thanks a lot for all your reply
Problem solved~~~^_*
The Brewer color tables are really good for me~~~

Cheers,

Ally