
Subject: how to set density slice color using the IDL new graphic

Posted by [titan](#) on Wed, 18 Sep 2013 13:12:05 GMT

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

Hi all,

I'm trying to create a widget where after reading an image it appears and clicking on a butt from gray scale it would turn in an image with only 5 colors one fore each class I have in the image. the image is a gray scale byte array[600,600] where the pixels have this values=63, 127,191,254,0

I would like to associate a specific color to each of these values

with the old graphic system I did in this way:

```
PRO read_tiff_widget_density_slice,event
  WIDGET_CONTROL,event.top, GET_UVALUE=status
```

```
  LoadCT, 0, NColors=254
  ;; example: 255, 0, 0,    255  ; Red in index 255
```

```
  DEVICE, DECOMPOSED=0
  white=WHERE(status.img EQ 63, count)
  IF count NE 0 THEN BEGIN
    TVLCT,255,255,255, 63
    status.img[white]=63
  ENDIF
```

```
  green=WHERE(status.img EQ 127, count)
  IF count NE 0 THEN BEGIN
    ; print, 'count green', count
    TVLCT,0,255,0, 127
    status.img[green]=127
  ENDIF
```

```
  ...
```

```
  ...
```

```
  ...
```

(the same for all the values)

```
  TV,status.img
  WIDGET_CONTROL, event.top, SET_UVALUE=status
```

```
END
```

and the "status" variable is defined as follows:

where "img" is the image

```
status={fname_map:fname_map,$
        map_name_field:map_name_field,$
        img:img,$
        lon:lon,$
        lat:lat}
```

If I try to use the same approach with the new graphic it does not work anymore and I'm not able to find a workaround.

I hope my problem is clear..

do you have any suggestions??

thanks in advance

cheers

Subject: Re: how to set density slice color using the IDL new graphic

Posted by [David Fanning](#) on Wed, 18 Sep 2013 13:26:48 GMT

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

titan writes:

> I'm trying to create a widget where after reading an image it appears
> and clicking on a butt from gray scale it would turn in an image with
> only 5 colors one fore each class I have in the image.

> the image is a gray scale byte array[600,600] where the pixels have this values=63,
127,191,254,0

>

> I would like to associate a specific color to each of these values

>

>

> with the old graphic system I did in this way:

> If I try to use the same approach with the new graphic it does not work anymore and I'm not
> able to find a workaround.

>

> I hope my problem is clear..

>

> do you have any suggestions??

I was taking an ENVI class last week when the rain started and the class
had to be aborted half way though. But, we did talk about density
slicing, and I thought this would be a great tool for the Coyote
Library. I don't know how to do this with function graphics, but if you

find you have to resort to direct graphics again, I would suggest doing this with Value_Locate rather than the Where function. It will be MUCH faster for you. :-)

http://www.idlcoyote.com/code_tips/partition.html
http://www.idlcoyote.com/code_tips/valuelocate.html

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: how to set density slice color using the IDL new graphic
Posted by [titan](#) on Mon, 30 Sep 2013 09:27:32 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi David,
thanks a lot for your suggestion.. I will let you know as soon as I will try it :)

all the best
