

---

Subject: Re: How to make the figure change automatically while I selected a new color table?

Posted by [David Fanning](#) on Fri, 27 Jun 2008 03:21:37 GMT

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

---

duxiyu@gmail.com writes:

> I have a problem about using the color table.  
>  
> For example,  
>  
>     device, decomposed=0  
>     loadct, 0  
>     tv scl, dist(256)  
>     xloadct  
>  
> While I changing the color table in the dialog box 'XLoadct', I hope  
> the color of the figure can change automatically.  
> Some files said that when IDL run in the pseudocolor mode (8-bit  
> mode), the figure can change automatically.  
> But my system is Windows, I have search in the help and do not find  
> how to change the visual mode to pseudocolor.  
> The keyword 'PSEUDO\_COLOR' can only be used in 'X-window' system.

Here is how to do this on a 24-bit display. This comes from the header information in XCOLORS:

<http://www.dfanning.com/programs/xcolors.pro>

Write a small routine line this:

```
PRO REFRESH_IMAGE, Image=image, _Extra=extra, WID=wid
  IF N_Elements(wid) NE 0 THEN WSet, wid
    TVIMAGE, image, _Extra=extra
  END
```

Invoke the routine like this:

```
IDL> Window, /Free
IDL> TVImage, image, Position=[0.2, 0.2, 0.8, 0.8]
IDL> XColors, NotifyPro='Refresh_Image', Image=image, WID=!D.Window
```

Now, when you can the color table, the image will be automatically updated in the window.

There are similar, if slightly less flexible, mechanisms available for XLOADCT.

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.")

---