
Subject: xloadct

Posted by [Vittorio Casella](#) on Mon, 20 Mar 2000 08:00:00 GMT

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Hi,

I'm a new user of IDL. My question is: once I've called XLOADCT and I've loaded a certain color map, the number of the selectec one is written anywhere? May I retrieve it?

Thanks in advance
Vittorio Casella

Vittorio Casella
casella@unipv.it

Universita' degli Studi di Pavia
DIET (Dipartimento di Ingegneria Edile e del Territorio)
Via Ferrata, 1
27100 Pavia
Italy

Tel. 0039/382/505417 (diretto)
Tel. 0039/382/505400 (Segreteria)
Fax. 0039/382/505419

Subject: Re: xloadct

Posted by [davidf](#) on Mon, 20 Mar 2000 08:00:00 GMT

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Vittorio Casella (casella@ipv36.unipv.it) writes:

> I'm a new user of IDL. My question is: once I've called XLOADCT and I've
> loaded a certain color map, the number of the selectec one is written
> anywhere? May I retrieve it?

You are not going to be able to get this information from XLOADCT, but since I was opening up my XLOADCT look-alike program, XCOLORS, this morning to fix a small problem I noticed in last week's IDL course, I decided to add this capability to it.

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

I like XCOLORS better than XLOADCT for a lot of reasons, but particularly for the way it can indicate that it has loaded new color vectors. It can now notify other widget programs (via widget events), objects, or other IDL procedures (ala XLOADCT, but in a more flexible way).

What I added today was a COLORINFO keyword that can return either a pointer to a color information structure (if XCOLORS is called in a non-modal fashion), or the color information structure directly (if XCOLORS is called in a modal fashion). If you get a pointer, then you are responsible for freeing it.

The color information structure is defined like this:

```
s = { R: BytArr(!D.Table_Size), $ ; The current red color vector
      G: BytArr(!D.Table_Size), $ ; The current green color vector.
      B: BytArr(!D.Table_Size), $ ; The current blue color vector.
      NAME: "", $ ; The name of the current color table.
      INDEX: 0 } ; The index number of the current color table.
```

Note that the Name field is "Unknown" and the Index field is -1 until the user actually loads a new color table in the program.

For example, if you call XCOLORS like this:

```
IDL> XColors, ColorInfo=theColorInfo
```

Then, at any time you can find out which color table is loaded (assuming the user has loaded one), like this:

```
IDL> Print, "Color Table Index: ", (*theColorInfo).index
```

Remember, called like this, you are responsible for freeing the pointer when you are done with it:

```
IDL> Ptr_Free, theColorInfo
```

I'm always leery of handing novice IDL users pointers, since I know they probably haven't learned how to handle them yet and their programs could easily become leaking memory sieves. So, if you are unsure, try calling XCOLORS in blocking (BLOCK keyword) or modal (MODAL and GROUP_LEADER keywords) mode. For example, like this:

```
IDL> XColors, /Block, ColorInfo=theColorInfo
IDL> Help, theColorInfo, /Structure
```

On another note, I have also updated quite a few of my device-decomposed-state-color-independent programs this weekend. (I don't know why I discovered so many little bugs in the class last week, but I decided to use the programs in a slightly different way than I normally do, and that always throws up a few unanticipated problems. Anyway, I think most of the problems I saw last week are fixed.)

Among the programs undergoing changes this weekend are these:

COLORBAR
TVIMAGE
GETCOLOR
PICKCOLOR
COLORBAR__DEFINE
DRAWCOLORS__DEFINE
FSC_FILESELECT
GETIMAGE
XCOLORS

These programs are all available as individual files on my web page, but they are not yet in the program "collections". I hope to have that done later today.

Cheers,

David

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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
