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Subject: Re: changing colors of widget-buttons

Posted by [David Fanning](#) on Thu, 24 May 2007 14:59:04 GMT

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BavarianMike86 writes:

- > We have written several programs which analyse image files. E.g.
- > "Saturation Check" or "Aux. Data Check".
- > The main program executes these analyses consecutively.
- >
- > Now I want to create a widget showing the current analysis status.
- > The requirements demand a yellow (non-sensitive) button for each
- > check. After one check is completed this button has to turn into light-
- > colored yellow.
- >
- > Any suggestions how i can accomplish this?

I typically use a draw widget that is made to look and act like a button. That is to say, it is a compound widget with a function event handler. I take the draw widget event into the event handler, and repackage it as a button event, so the end-user can treat it as a button and not a draw widget.

When the button is "selected", I either change the colors I draw the button with, or I reverse the edge/shadow/normal colors so that it has a "depressed" look to it.

[http://www.dfanning.com/widget\\_tips/depressed.html](http://www.dfanning.com/widget_tips/depressed.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 thui. ("Perhaps thou speakest truth.")

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Subject: Re: changing colors of widget-buttons

Posted by [Robbie](#) on Fri, 25 May 2007 06:40:48 GMT

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Is there an implementation of a button using widget\_draw lying around or is that left as an exercise for the reader?

Robbie

P.S. Code available at <http://barnett.idl.au/idl/> (But that would be cheating)

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Subject: Re: changing colors of widget-buttons

Posted by [BavarianMike86](#) on Fri, 25 May 2007 09:26:33 GMT

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David writes:

- > I typically use a draw widget that is made to look and act
- > like a button. That is to say, it is a compound widget with
- > a function event handler. I take the draw widget event into
- > the event handler, and repackage it as a button event, so
- > the end-user can treat it as a button and not a draw widget.
- >
- > When the button is "selected", I either change the colors
- > I draw the button with, or I reverse the edge/shadow/normal
- > colors so that it has a "depressed" look to it.
- >
- > [http://www.dfanning.com/widget\\_tips/depressed.html](http://www.dfanning.com/widget_tips/depressed.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 thui. ("Perhaps thou speakest truth.")

Obviously I wasn't able to explain my problem accurately. Sorry. I still have problems writing in English.

These "buttons" must not to be sensitive. These "buttons" shall be some kind of status bar showing which functions were already executed.

There are just two sensitive buttons: "start" and "quit". The other ones just show what was done.

I hope my problem is clearer now.

Greetings,  
Michael

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Subject: Re: changing colors of widget-buttons

Posted by [David Fanning](#) on Fri, 25 May 2007 13:28:38 GMT

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BavarianMike86 writes:

- > Obviously I wasn't able to explain my problem accurately. Sorry. I
- > still have problems writing in English.
- > These "buttons" must not to be sensitive. These "buttons" shall be
- > some kind of status bar showing which functions were already executed.
- > There are just two sensitive buttons: "start" and "quit". The other
- > ones just show what was done.

Well, I would just modify Dick Jackson's little routine  
BitmapForButtonText that is described in that article to  
allow any background color you like for the button. It took  
me less than 30 seconds to make the change. :-)

Cheers,

David

--

David Fanning, Ph.D.

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Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: changing colors of widget-buttons

Posted by [BavarianMike86](#) on Fri, 25 May 2007 13:40:43 GMT

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David writes:

- > Well, I would just modify Dick Jackson's little routine
- > BitmapForButtonText that is described in that article to
- > allow any background color you like for the button. It took
- > me less than 30 seconds to make the change. :-)
- >
- > 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.")

Well, You are a professional.

IDL is the first programming language I ever used ;-)

On my Windows-machine Jackson's routine worked fine.  
But on the Linux PC nothing happened.

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Subject: Re: changing colors of widget-buttons  
Posted by [David Fanning](#) on Fri, 25 May 2007 13:42:27 GMT  
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BavarianMike86 writes:

- > Well. You are a professional.
- > IDL is the first programming language I ever used ;-)

Well, you are WAY too kind! :-)

But find this line:

```
Erase, Color=Total(sysColors.Face_3D * [1, 256, 65536L])
```

And change sysColors.Face\_3D to a three-element array, specifying any color you like. For example, yellow:

```
Erase, Color=Total([255,255,0]* [1, 256, 65536L])
```

Or, green:

```
Erase, Color=Total([0,255,0]* [1, 256, 65536L])
```

I just created a BGCOLOR keyword so I could specify the color I wanted when I called the function.

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.")

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Subject: Re: changing colors of widget-buttons  
Posted by [David Fanning](#) on Fri, 25 May 2007 13:43:40 GMT  
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BavarianMike86 writes:

- > Well, You are a professional.
- > IDL is the first programming language I ever used ;-)
- >

> On my Windows-machine Jackson's routine worked fine.  
> But on the Linux PC nothing happened.

Find the WINDOW command in the program and set the RETAIN=2 keyword.

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.")

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Subject: Re: changing colors of widget-buttons

Posted by [news.qwest.net](http://news.qwest.net) on Fri, 25 May 2007 15:37:14 GMT

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"David Fanning" <[news@dfanning.com](mailto:news@dfanning.com)> wrote in message  
news:MPG.20c095f72eae5677989fbe@news.frii.com...

> BavarianMike86 writes:

>

>> Well, You are a professional.

>> IDL is the first programming language I ever used ;-)

>>

>> On my Windows-machine Jackson's routine worked fine.

>> But on the Linux PC nothing happened.

>

> Find the WINDOW command in the program and set the RETAIN=2

> keyword.

These threads make me real happy I do (almost) all my gui programming  
in labview. :)

Cheers,

bob

PS Sorry for the non-useful post.

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Subject: Re: changing colors of widget-buttons

Posted by [BavarianMike86](#) on Tue, 12 Jun 2007 10:03:23 GMT

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Finally I'm back from vacation. So we can go on working on this program.

I have written a completely new one and approach the task in an other way because I was not satisfied with the coloured buttons.

Pressing the "START"-button the program below executes consecutively several programs:

- FITS integrity ckeck
- SNR estimation
- Saturation check
- Aux. data check

After a check was done the corresponding label initially printing "----" shall print "DONE"

My question:

How can I change the values of the widgetLabels "check1-8" consecutively from "----" to "DONE" ?

I have already tried for example:

WIDGET\_CONTROL, "uservalue", SET\_VALUE="DONE"

But apparently it isn't that easy. Is it?

Read the comments of QUICKLOOK\_EVENT to see my problem

Greetings,  
Michael

-----

PRO quicklook\_event, event

WIDGET\_CONTROL, event.ID, GET\_UVALUE=uval  
IF (uval EQ 'start') THEN BEGIN

                  ; run FITS integrity ckeck  
                  ; How to address Widget\_Label "check1" and set value  
from "----" to "DONE"

                  ; run SNR estimation  
                  ; How to address Widget\_Label "check2" and set value  
from "----" to "DONE"

                  ; run Saturation check  
                  ; How to address Widget\_Label "check3" and set value  
from "----" to "DONE"

                  ; run Aux. data check  
                  ; How to address Widget\_Label "check4" and set value

```
from "----" to "DONE"
```

```
ENDIF
```

```
IF (uval EQ 'quit') THEN BEGIN
```

```
WIDGET_CONTROL, event.TOP, /DESTROY
```

```
ENDIF
```

```
END
```

```
PRO QUICKLOOK
```

```
tlb = WIDGET_BASE(/COLUMN, TITLE='IQLAC Quicklook Standalone')
```

```
start = WIDGET_BUTTON(tlb, UVALUE='start', VALUE='Start', FRAME=4, /  
ALIGN_CENTER)
```

```
SCA = WIDGET_BASE(tlb, /ROW)
```

```
SCA_A_title = WIDGET_BASE(SCA, /COLUMN, FRAME=4)
```

```
title_A = WIDGET_LABEL(SCA_A_title, VALUE='SCA-A', /ALIGN_CENTER)
```

```
SCA_A_base = WIDGET_BASE(SCA_A_title, /ROW, FRAME=1)
```

```
SCA_A_base1 = WIDGET_BASE(SCA_A_base, /COLUMN)
```

```
SCA_A_base2 = WIDGET_BASE(SCA_A_base, /COLUMN)
```

```
SCA_B_title = WIDGET_BASE(SCA, /COLUMN, FRAME=4)
```

```
title_B = WIDGET_LABEL(SCA_B_title, VALUE='SCA-B', /ALIGN_CENTER)
```

```
SCA_B_base = WIDGET_BASE(SCA_B_title, /ROW, FRAME=1)
```

```
SCA_B_base1 = WIDGET_BASE(SCA_B_base, /COLUMN)
```

```
SCA_B_base2 = WIDGET_BASE(SCA_B_base, /COLUMN)
```

```
wBtn1 = WIDGET_LABEL(SCA_A_base1, UVALUE='wBtn1', FRAME=1,  
SCR_XSIZE=150, VALUE='FITS integrity ckeck')
```

```
wBtn2 = WIDGET_LABEL(SCA_A_base1, UVALUE='wBtn2', FRAME=1,  
SCR_XSIZE=150, VALUE='SNR estimation')
```

```
wBtn3 = WIDGET_LABEL(SCA_A_base1, UVALUE='wBtn3', FRAME=1,  
SCR_XSIZE=150, VALUE='Saturation check')
```

```
wBtn4 = WIDGET_LABEL(SCA_A_base1, UVALUE='wBtn4', FRAME=1,  
SCR_XSIZE=150, VALUE='Aux. data check')
```

```
check1 = WIDGET_LABEL(SCA_A_base2, UVALUE='check1', FRAME=1,  
VALUE='----')
```

```
check2 = WIDGET_LABEL(SCA_A_base2, UVALUE='check2', FRAME=1,  
VALUE='----')
```

```
check3 = WIDGET_LABEL(SCA_A_base2, UVALUE='check3', FRAME=1,  
VALUE='----')
```

```
check4 = WIDGET_LABEL(SCA_A_base2, UVALUE='check4', FRAME=1,  
VALUE='----')
```

```
wBtn5 = WIDGET_LABEL(SCA_B_base1, UVALUE='wBtn5', FRAME=1,  
SCR_XSIZE=150, VALUE='FITS integrity ckeck')
```

```
wBtn6 = WIDGET_LABEL(SCA_B_base1, UVALUE='wBtn6', FRAME=1,  
SCR_XSIZE=150, VALUE='SNR estimation')
```

```
wBtn7 = WIDGET_LABEL(SCA_B_base1, UVALUE='wBtn7', FRAME=1,  
SCR_XSIZE=150, VALUE='Saturation check')
```

```
wBtn8 = WIDGET_LABEL(SCA_B_base1, UVALUE='wBtn8', FRAME=1,  
SCR_XSIZE=150, VALUE='Aux. data check')
```

```
check5 = WIDGET_LABEL(SCA_B_base2, UVALUE='check5', FRAME=1,  
VALUE='----')
```

```
check6 = WIDGET_LABEL(SCA_B_base2, UVALUE='check6', FRAME=1,  
VALUE='----')
```

```
check7 = WIDGET_LABEL(SCA_B_base2, UVALUE='check7', FRAME=1,  
VALUE='----')
```

```
check8 = WIDGET_LABEL(SCA_B_base2, UVALUE='check8', FRAME=1,  
VALUE='----')
```

```
quit = WIDGET_BUTTON(tlb, UVALUE='quit', VALUE='Quit', /ALIGN_CENTER)
```

```
WIDGET_CONTROL, tlb, /REALIZE  
XMANAGER, 'quicklook', tlb
```

```
END
```

---