
Subject: Re: How to get windows id or title by clicking on it

Posted by [dosfun](#) on Fri, 19 Jun 2009 01:16:11 GMT

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> Good morning every one
> I work with a GUI which include up to 8 windows which have titles as
> "window 1 window 2 window 3...", and I would like to get the id of the
> window just exposing it (left click on the window) or the best should
> be to get the title of the window by left clicking on it as each one
> of these titles include the number of its window.
> I have already events linked with the drawing area inside of these
> windows, but as the user may avoid to move the mouse over the drawing
> area, I would need to get the event when clicking on the window itself
> (as every body does to put the window to the front-most window of the
> screen)
>
> Is there a simple function such as widget_control, event.top,
> get_window_title=title ??
>
> I am looking forward to hearing from you !
>
> Thanks a lot !
>
> JeanPhi

widget_control, event.top, set_uvalue = 'window 1'

widget_control, event.top, get_uvalue = windowName

do you mean to something like these?

Subject: Re: How to get windows id or title by clicking on it

Posted by [David Fanning](#) on Fri, 19 Jun 2009 01:23:23 GMT

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Jeanphi62 writes:

> I work with a GUI which include up to 8 windows which have titles as
> "window 1 window 2 window 3...", and I would like to get the id of the
> window just exposing it (left click on the window) or the best should
> be to get the title of the window by left clicking on it as each one
> of these titles include the number of its window.
> I have already events linked with the drawing area inside of these
> windows, but as the user may avoid to move the mouse over the drawing
> area, I would need to get the event when clicking on the window itself
> (as every body does to put the window to the front-most window of the

> screen)
>
> Is there a simple function such as widget_control, event.top,
> get_window_title=title ??

No really, you can change a window title, but not get it.
Presumably you already know what it is. ;-)

You could set KBRD_FOCUS_EVENTS on your top-level base widgets, but you couldn't always tell which window you selected. If you were changing focus to the window, you could tell, or if you changed focus to another window, you could tell. But if you clicked a window that already had focus, you wouldn't hear about that. You might be able to make something like that work for you.

But, frankly, I've written a LOT of widget applications and I've never thought I needed anything like this. Are you sure this can't be solved with a design change?

Cheers,

David

--

David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
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Subject: Re: How to get windows id or title by clicking on it
Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 01:24:17 GMT
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Actually no.

In fact I am working on multiple screens. So I have one window in one screen and the other on the other screen.

I need a method which would call a function as soon as I left click on one of these windows. Then I know how to get the number of the window.

I have found some things when creating the widget_base

There are the keywords /tlb_move_events or /tlb_iconify_events, and with these keywords I manage to call a function when I move or iconify a window. But it seems that there is nothing when we left click on a window... Is it ?

Subject: Re: How to get windows id or title by clicking on it
Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 01:34:42 GMT
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yes !! KBRD_FOCUS_EVENTS works ! Thanks a lot !!!!!

Subject: Re: How to get windows id or title by clicking on it
Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 01:45:05 GMT
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Now a now a new problem occurs, my widget_base need to be linked with
/tlb_kill_request_events
and the only mean to get the value I wanted previously is to add the
keyword
/kbrd_focus_events

But it seems that IDL doesn't like a widget_base with 2 keywords...

Subject: Re: How to get windows id or title by clicking on it
Posted by [David Fanning](#) on Fri, 19 Jun 2009 02:13:35 GMT
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Jeanphi62 writes:

- > Now a now a new problem occurs, my widget_base need to be linked with
- > /tlb_kill_request_events
- > and the only mean to get the value I wanted previously is to add the
- > keyword
- > /kbrd_focus_events
- >
- > But it seems that IDL doesn't like a widget_base with 2 keywords...

What causes you to think that?

Cheers,

David

--

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Subject: Re: How to get windows id or title by clicking on it

Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 02:44:38 GMT

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To sum up :

I have to link the event `tlb_kill_request_events` with the function `close_window.pro` and the event `kbrd_focus_events` with the function `test_window.pro` (this function gives me the number of the window) so I tried :

```
tlb = widget_base(title="mywindow", MBAR=mbar, /col, $
                /tlb_kill_request_events, event_pro=close_window, $
                /kbrd_focus_events, event_pro='test_window')
```

but the software crashes.

If I just do :

```
tlb = widget_base(title="mywindow", MBAR=mbar, /col, $
                /kbrd_focus_events, event_pro='test_window')
```

the software obviously doesn't link the will to destroy the widget with the top right cross button with the function `close_window` anymore.

I tried to create parent and child structure :

```
tlb0 = widget_base(title="mywindow", $
                /tlb_kill_request_events, event_pro=close_window)
tlb = widget_base(GROUP_LEADER=tlb0, $
                MBAR=mbar, /col, $
                /kbrd_focus_events, event_pro='test_window')
```

but, one more time, IDL only considers the second key word and doesn't link the will to destroy the widget with the top right cross button with the function `close_window`.

So what could I do to link with this `widget_base` both events ?

Thank you for advance

Cheers

Jeanphi

Subject: Re: How to get windows id or title by clicking on it

Posted by [David Fanning](#) on Fri, 19 Jun 2009 02:53:12 GMT

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Jeanphi62 writes:

> I have to link the event tlb_kill_request_events with the function
> close_window.pro and the event kbrd_focus_events with the function
> test_window.pro (this function gives me the number of the window) so I
> tried :
>
> tlb = widget_base(title="mywindow", MBAR=mbar, /col, \$
> /tlb_kill_request_events, event_pro=close_window, \$
> /kbrd_focus_events, event_pro='test_window')
>
> but the software crashes.

No, no. You can only have one event handler for a widget.
When you get into that event handler, you can decide if the
event is a kill request or a keyboard focus event:

```
thisEventName = Tag_Names(event)  
CASE thisEventName OF
```

```
'WIDGET_KILL_REQUEST': BEGIN....
```

```
'WIDGET_KBRD_FOCUS': BEGIN...
```

```
ELSE: Print, 'Yikes. Do not have a clue!!'
```

```
ENDCASE
```

Cheers,

David

--

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Subject: Re: How to get windows id or title by clicking on it

Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 03:03:54 GMT

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How do I create my widget_base then ?

```
tlb = widget_base(title="mywindow", MBAR=mbar, /col, $  
                  event_pro=eventHandler)  ??
```

and

```
pro eventHandler, event

thisEventName = Tag_Names(event)
CASE thisEventName OF

    'WIDGET_KILL_REQUEST': BEGIN
        close_window, event
        return
    end

    'WIDGET_KBRD_FOCUS': BEGIN
        test_window, event
        return
    end

    ELSE: Print, 'Yikes. Do not have a clue!!'

ENDCASE

end
```

Is that what you mean ?

Subject: Re: How to get windows id or title by clicking on it
Posted by [David Fanning](#) on Fri, 19 Jun 2009 03:12:13 GMT
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Jeanphi62 writes:

> Is that what you mean ?

Yes, that's what I mean. :-)

I can tell you are not building this program using
the IDL Best Practices Manual, but here is an article that
might save you a LOT of time in the future debugging
your programs:

<http://www.dfanning.com/tips/namefiles.html>

You can see how I've named the routines in a large
widget application by looking, for example, at this
program:

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

Cheers,

David

--

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Subject: Re: How to get windows id or title by clicking on it
Posted by [David Fanning](#) on Fri, 19 Jun 2009 03:17:14 GMT

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Jeanphi62 writes:

```
> tlb = widget_base(title="mywindow", MBAR=mbar, /col, $  
>           event_pro=eventHandler)  ??
```

It *used* to be the case, although probably not anymore, that you would get very strange results if you used the EVENT_PRO keyword to assign an event handler to a widget that was going to be managed directly by XMANAGER (as the tlb is here). It still makes me nervous to see it, although I have seen it in ITTVIS code, too, presumably without ill effect.

But I still assign the TLB event handler with the EVENT_HANDLER keyword on the XMANAGER call. Old habits die hard, I guess. :-)

Cheers,

David

--

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Subject: Re: How to get windows id or title by clicking on it

Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 03:40:21 GMT

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Thanks for the links.

The way you described to create and call the events doesn't seem to work.

I wrote exactly what you proposed me and it seems that no event is linked with the widget_base

Indeed, I have just added a print, "hello" just at the beginning of pro eventhandler, event and IDL doesn't come inside as I click on the widget_base...

Subject: Re: How to get windows id or title by clicking on it

Posted by [David Fanning](#) on Fri, 19 Jun 2009 03:45:44 GMT

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Jeanphi62 writes:

- > The way you described to create and call the events doesn't seem to
- > work.
- > I wrote exactly what you proposed me and it seems that no event is
- > linked with the widget_base
- > Indeed, I have just added a print, "hello" just at the beginning of
- > pro eventhandler, event and IDL doesn't come inside as I click on the
- > widget_base...

Did you put the name of the event handler in quotes?

It is a string. You didn't have it in quotes in your example, but I just assumed you knew to do this.

Cheers,

David

--

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Subject: Re: How to get windows id or title by clicking on it

Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 03:49:04 GMT

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Yes I wrote it in quotes in my source code...

Subject: Re: How to get windows id or title by clicking on it

Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 03:56:51 GMT

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With

```
tlb = widget_base(title="mywindow", MBAR=mbar, /col, $
                event_pro='test_function')
```

and

```
pro test_function, event
print, "hello"
end
```

There is no "hello" printed when I click on the widget_base...

Subject: Re: How to get windows id or title by clicking on it

Posted by [Jeanphi62](#) on Fri, 19 Jun 2009 04:10:51 GMT

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All right, it works now

The key was to write :

```
tlb = widget_base(title="mywindow", MBAR=mbar, /col, $
                /tlb_kill_request_events, /kbrd_focus_events)
```

Thank you very much for your time David. I really appreciated it.

Cheers.

Jeanphi

Subject: Re: How to get windows id or title by clicking on it

Jeanphi62 writes:

```
> With
>
>
> tlb = widget_base(title="mywindow", MBAR=mbar, /col, $
>         event_pro='test_function')
>
>
>
> and
>
>
>
> pro test_function, event
>   print, "hello"
> end
>
>
>
> There is no "hello" printed when I click on the widget_base...
```

Well, if this is your code, you don't have any events turned on for the base widget! ;-)

This code will generate events.

```
pro test_tlb_events, event
thisEvent = tag_names(event, /structure_name)
Print, thisEvent
end

pro test
tlb = widget_base(title="mywindow", MBAR=mbar, /col, $
        /tlb_size_events, $
        /tlb_move_events, $
        /tlb_kill_request_events)
draw = widget_draw(tlb, xsize=400, ys=400)
widget_control, tlb, /realize
xmanager, 'test', tlb, /no_block, event_handler='test_tlb_events'
end
```

Cheers,

David

--

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