
Subject: text widget example

Posted by [astroboy.20000](#) on Fri, 29 Dec 2017 19:35:15 GMT

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

Hello,

Does anyone have a snippet of code that shows how to process input from a text widget? What I'm asking about is that you have a text widget, you type in a string, and hit return, and the string is passed to the event_pro routine for that widget.

I would have thought this information would have been passed in the event structure but I can't find anything that explains if this is the case. What I have found is illustrated below in the code from Liam Gumley's book, where the string is passed via a variable in the uvalue. This seems like a complicated way to go about it, especially since in the program I'm writing I'd like to have about a dozen text widgets.

Thanks,

Mark

```
PRO WGETNAME_EVENT, EVENT
```

```
print, 'Event detected'
```

```
;- Get state information
```

```
widget_control, event.top, get_uvalue=infoptr  
info = *infoptr
```

```
;- Identify widget which caused the event
```

```
widget_control, event.id, get_uvalue=widget  
help, widget
```

```
;- Handle events
```

```
if (widget eq 'Text') or (widget eq 'OK') then begin
```

```
    widget_control, info.text, get_value=name  
    info.name = name  
    info.status = 'OK'
```

```
endif else begin
```

```
    info.name = "  
    info.status = 'Cancel'
```

```
endelse
```

```

print,'name    ',name

;- Save state information
*infoptr = info

;- Destroy the widget hierarchy
widget_control, event.top, /destroy

END

PRO WGETNAME_CLEANUP, ID

print, 'Cleaning up'

;- Get state information
widget_control, id, get_uvalue=infoptr

info = *infoptr

;- Save result
result = {name:info.name, status:info.status}
*infoptr = result

END

PRO WGETNAME, NAME, STATUS

print, 'Creating widgets'

;- Create top level base
device, get_screen_size=screen_size
xoffset = screen_size[0] / 3
yoffset = screen_size[1] / 3
tlb = widget_base(column=1, title='Name', $
    xoffset=xoffset, yoffset=yoffset, tlb_frame_attr=1)

;- Create text entry widgets
tbase = widget_base(tlb, row=1)
label = widget_label(tbase, value='Enter your name: ')
text = widget_text(tbase, uvalue='Text', /editable)

;- Create button widgets
bbase = widget_base(tlb, row=1, /align_center)
bsize = 75
butta = widget_button(bbase, value='OK', $

```

```

    uvalue='OK', xsize=bsize)
buttb = widget_button(bbase, value='Cancel', $
    uvalue='Cancel', xsize=bsize)

;- Realize widgets
widget_control, tlb, /realize

;- Create and store state information
info = {text:text, name:"", status:'Cancel'}
infoPtr = ptr_new(info)
widget_control, tlb, set_uvalue=infoPtr

;- Manage events
xmanager, 'wgetname', tlb, cleanup='wgetname_cleanup'

;- Get result
result = *infoPtr
ptr_free, infoPtr
name = result.name
status = result.status

END

```

Subject: Re: text widget example
 Posted by [Russell\[1\]](#) on Tue, 02 Jan 2018 18:53:49 GMT
[View Forum Message](#) <> [Reply to Message](#)

Here's a very brief thing...

```

pro thistext,event
    widget_control,event.id,get_value=text
    print,text
end
pro wget

    base=widget_base(title='test',/col)
    wtext=widget_text(base,value="",uname='textbox',/edit,event_pro='thistext')
    widget_control,base,/realize
    state=ptr_new({wtext:wtext})
    widget_control,base,set_uval=state
    xmanager,'wget',base,/no_block
end

```

if you put text in the box and hit return, then it will print that text to the terminal.

-Russell

PS... you might start using the new page set up by W. Landsman. this is loaded with spam.

On Friday, December 29, 2017 at 2:35:18 PM UTC-5, Ann Nonymous wrote:

```
> Hello,
>
> Does anyone have a snippet of code that shows how to process input from a text widget? What
I'm asking about is that you have a text widget, you type in a string, and hit return, and the string is
passed to the event_pro routine for that widget.
>
> I would have thought this information would have been passed in the event structure but I can't
find anything that explains if this is the case. What I have found is illustrated below in the code
from Liam Gumley's book, where the string is passed via a variable in the uvalue. This seems like
a complicated way to go about it, especially since in the program I'm writing I'd like to have about
a dozen text widgets.
>
> Thanks,
>
> Mark
>
>
>
>
>
>
>
> PRO WGETNAME_EVENT, EVENT
>
> print, 'Event detected'
>
> ;- Get state information
> widget_control, event.top, get_uvalue=infoPtr
> info = *infoPtr
>
> ;- Identify widget which caused the event
> widget_control, event.id, get_uvalue=widget
> help, widget
>
> ;- Handle events
> if (widget eq 'Text') or (widget eq 'OK') then begin
>   widget_control, info.text, get_value=name
>   info.name = name
>   info.status = 'OK'
> endif else begin
>   info.name = "
```

```

> info.status = 'Cancel'
> endelse
>
>
> print,'name    ',name
>
> ;- Save state information
> *infoptr = info
>
> ;- Destroy the widget hierarchy
> widget_control, event.top, /destroy
>
> END
>
> PRO WGETNAME_CLEANUP, ID
>
> print, 'Cleaning up'
>
> ;- Get state information
> widget_control, id, get_uvalue=infoptr
>
>
>
> info = *infoptr
>
> ;- Save result
> result = {name:info.name, status:info.status}
> *infoptr = result
>
> END
>
> PRO WGETNAME, NAME, STATUS
>
> print, 'Creating widgets'
>
> ;- Create top level base
> device, get_screen_size=screen_size
> xoffset = screen_size[0] / 3
> yoffset = screen_size[1] / 3
> tlb = widget_base(column=1, title='Name', $
>   xoffset=xoffset, yoffset=yoffset, tlb_frame_attr=1)
>
> ;- Create text entry widgets
> tbase = widget_base(tlb, row=1)
> label = widget_label(tbase, value='Enter your name: ')
> text = widget_text(tbase, uvalue='Text', /editable)
>
> ;- Create button widgets

```

```
> bbase = widget_base(tlb, row=1, /align_center)
> bsize = 75
> butta = widget_button(bbase, value='OK', $
>   uvalue='OK', xsize=bsize)
> buttb = widget_button(bbase, value='Cancel', $
>   uvalue='Cancel', xsize=bsize)
>
> ;- Realize widgets
> widget_control, tlb, /realize
>
> ;- Create and store state information
> info = {text:text, name:"", status:'Cancel'}
> infoptr = ptr_new(info)
> widget_control, tlb, set_uvalue=infoptr
>
> ;- Manage events
> xmanager, 'wgetname', tlb, cleanup='wgetname_cleanup'
>
> ;- Get result
> result = *infoptr
> ptr_free, infoptr
> name = result.name
> status = result.status
>
> END
```
