
Subject: Re: WMENU Routine

Posted by [Matthew Larkum](#) on Thu, 13 Jun 1996 07:00:00 GMT

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mike harwood wrote:

>

> I have recieved some IDL code from another organization with a WMENU
> routine. I have looked in the IDL documentation but cannot find any
> references to this. Can anyone tell me what this routine does?

>

> ThanksI used to use the WMENU function a lot with PV-Wave until we switched
to IDL for Windows where it wasn't supported. The manual for PV-Wave
reads thus:

WMENU Function

Displays a menu inside the current window whose choices are
given by the elements of a string array and which returns
the index of the user's response.

Usage

```
result = WMENU(strings)
```

Returned Value

result = Returns -1 if the user did not select a menu item.
Otherwise, the returned value ranges from 0 to the number of
elements in strings minus one.

Input Keywords

Initial_Selection - The index of the initial selection.

Title - The index of the strings element that is the title.

Xpos - The position on the X axis for menu

Ypos - The position on the Y axis for menu

I solved the problem by making a replace all of WMENU with WMENU2 as given
below. It calls XWMENU which is also given below. Please don't write and
tell me my widget programming is stuffed. This was my first attempt with
IDL.

Hope it helps,

Matthew.

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```
;
;
; $Id: template,v 1.1 91/03/11 20:30:47 jeffry Exp $
;
;+
; NAME: WMENU2
; WRITTEN BY: Matthew Larkum, University of Bern, Switzerland.
; DATE: Tuesday, 30th August, 1994.
; PURPOSE: Displays menu and returns choice - works like WMENU for IDL
; for Windows as well.
; CATEGORY: Input/Output
; CALLING SEQUENCE: choice = WMENU2(list)
; INPUTS: list = string array containing menu choices.
; OPTIONAL INPUT PARAMETERS: None.
; KEYWORD PARAMETERS: init = integer number for the initial choice highlighted.
; title = integer number if the first element of list is the title
; OUTPUTS: None.
; OPTIONAL OUTPUT PARAMETERS: None.
; COMMON BLOCKS: None.
; SIDE EFFECTS: None.
; RESTRICTIONS: None.
; PROCEDURE:
; EXAMPLE: choice = WMENU2(['Choose a color:', 'Red', 'White', 'Blue'], $
;   init=1, title=0)
; MODIFICATION HISTORY:
;-
function wmenu2, list, init=init, title=title

if !d.name eq "WIN" then begin
  if n_elements(title) ne 0 then begin
    newlist = list(1:n_elements(list)-1)
    title = list(0)
    add = 1
  endif $
else begin
  newlist = list
  title = "Menu"
  add = 0
endelse

return, xwmenu(newlist, title=title)+add
endif $ ; using IDL for windows
else begin
  if n_elements(init) eq 0 then init = 0
```

```

if keyword_set(title) then $
  return, wmenu(list,init=init,title=title) $
else $
  return, wmenu(list,init=init)
endelse

```

end

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```

;
;
; $Id: template,v 1.1 91/03/11 20:30:47 jeffry Exp $
;
;
;+
; NAME: XWMENU
; WRITTEN BY: Matthew Larkum, University of Bern, Switzerland.
; DATE: Fri, 17th October, 1995.
; PURPOSE: Widget version of old WMENU routine with yummy extras
; CATEGORY: widgets
; CALLING SEQUENCE: value = XWMENU(list)
; INPUTS: list = array of values for the menu list
; OPTIONAL INPUT PARAMETERS: None.
; KEYWORD PARAMETERS: title = title for menu
; cancel = adds a cancel button (return value always -1)
; values = list of return values corresponding to list values
; defaults to the number as in old WMENU function
; OUTPUTS: value of button chosen
; OPTIONAL OUTPUT PARAMETERS: None.
; COMMON BLOCKS: None.
; SIDE EFFECTS: None.
; RESTRICTIONS: None.
; NOTE: Works like the old WMENU procedure. This procedure had a
; keyword, "init" which is now redundant, but can be given to
; XWMENU anyway - it just doesn't do anything (for backward
; compatibility)
; PROCEDURE: To return the values 20,40 & 60 from a menu with cancel
; button (value = -1) do the following:
;
;
; value = XWMENU(indgen(3)*20+20,/cancel,values=indgen(3)*20+20,$
; title="What you see is what you get!")
; MODIFICATION HISTORY:
;-

```

PRO xwmenu_event, event

; This is the event handler for a "xwmenu" widget.

; The COMMON block is used because both xwmenu and xwmenu_event must

```

; know about the group leader.
COMMON xwmenugroup, xwbase, rvalue

; Use WIDGET_CONTROL to get the user value of any widget touched and put
; that value into 'eventval':

WIDGET_CONTROL, event.id, GET_UVALUE = eventval

; Perform actions based on the user value of the button which was pressed.

rvalue = eventval
widget_control, event.top, /destroy

END

PRO xwmenupro, options, GROUP=GROUP, title=title, cancel=cancel, values=values
; This is the procedure that creates a widget application

; The COMMON block is used because both xwmenu and xwmenu_event must
; know the group leader.
COMMON xwmenugroup, xwbase, rvalue

; A top-level base widget with the title "Pop-Up Widget Example" will
; hold the exclusive buttons:
xwbase = WIDGET_BASE(TITLE = title, $
/COLUMN, $
XSIZE=8*max([(size(byte(strtrim(options,2)))(1), 5*(cancel+1), strlen(title))])

textframe = WIDGET_TEXT(xwbase,value=title)
but = intarr(n_elements(options))
for i=0,n_elements(options)-1 do $
but(i) = WIDGET_BUTTON(xwbase, $
UVALUE = values(i), $
VALUE = strtrim(options(i),2))
if keyword_set(cancel) then $
cancelbut = widget_button(xwbase, $
uvalue = -1, $
value = 'CANCEL')

; Realize the widgets:
WIDGET_CONTROL, xwbase, /REALIZE

; Hand off control of the widget to the XMANAGER:
XMANAGER, "xwmenu", xwbase, GROUP_LEADER=GROUP, event_handler="xwmenu_event",
$
/modal

```

END

```
function xwmenu, options, title=title, cancel=cancel, values=values, init=init  
COMMON xwmenugroup, xwbase, rvalue
```

```
if not keyword_set(title) then title = "Menu"  
if not keyword_set(cancel) then cancel = 0 $  
else cancel=1  
if not keyword_set(values) then values = indgen(n_elements(options))
```

```
xwmenupro, options, title=title, cancel=cancel, values=values  
if n_elements(rvalue) eq 0 then rvalue = -1 ;*** default cancel  
return, rvalue  
end
```
