
Subject: Re: widget with check table ??

Posted by [J.D. Smith](#) on Tue, 25 Aug 1998 07:00:00 GMT

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Martin Vissers wrote:

```
>
> I'm trying to create a dialog in which you can select
> several options within a table.
>
> Can this be done with widget programming ???
> an example:
>
>   | AA | BB | CC |
> -----|
>  1 | x |   |   |
> -----|
>  2 |   |   | x |
> -----|
>  3 | x | x | x |
> -----|
>  4 |   |   |   |
> -----|
>  5 |   |   | x |
> -----|
>
> so the user can select (with an x or a radio button) which
> options will be processed.
>
> Someone there with a good idea ???
```

How about the following:

```
pro testaw_event,ev
  widget_control, ev.top, get_uvalue=barr,/NO_COPY
  wh=where(ev.id eq barr) & wh=wh[0]
  msg='Selected' & if ev.select eq 0 then msg='De-'+msg & msg=' '+msg
  print,'ROW: '+strtrim(wh/3+1,2)+' COLUMN: '+ ([ 'A','B','C' ])[wh mod 3]+msg
  widget_control, ev.top, set_uvalue=barr,/NO_COPY
end
```

```
pro testaw
  b=widget_base(/COLUMN,/BASE_ALIGN_LEFT)

  barr=lonarr(3,5)
  lab=widget_label(b,value=string(FORMAT='(3A5)','A','B','C'))
  for i=0,4 do begin
    base=widget_base(b,/ROW)
    lab=widget_label(base,value=string(i+1,FORMAT='(I1)'))
```

```

base=widget_base(base,/ROW,/NONEXCLUSIVE)
for j=0,2 do barr(j,i)=widget_button(base,value=")
endfor
widget_control, b,/REALIZE,set_uvalue=barr
XManager, 'testaw',b,/NO_BLOCK
end

```

Note that to get the column headings to line up we have to monkey with the string format, and so the placement will depend on the font and system used. In addition, to get buttons from row to row to line up, the row labels must occupy the same space (which is easy enough to enforce for a mono-spaced font). This is of course frustrating but I see no simple workaround. Likely a large amount of code which test widget size and employs [XY]OFFSET could accomplish this in a more portable way, but it would be ugly. This works well on my Linux IDL v5.1 with a mono-spaced font (10pt). To accomodate longer column headings you can use spaces in the button values.

JD

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Subject: Re: widget with check table ??
 Posted by [davidf](#) on Tue, 25 Aug 1998 07:00:00 GMT
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Martin Vissers (martin.vissers@users.whh.wau.nl) writes:

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> -----|
>  5 |   |   | x |

```

> -----|
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> so the user can select (with an x or a radio button) which
> options will be processed.

Oh, of course this can be done with widget programming. What can't? :-)

I would set the ALL_EVENTS keyword to 1 and turn off the EDITABLE keyword. Then, when the user tries to type something in the field I would know about it and write an X into the field (no matter what they are trying to actually type).

The documentation says that the EDITABLE keyword suppresses all events, but I am certain this is not true, and in any case is belied by the little chart further in the documentation that shows you how the two keywords interact.

If you would like to see an example of how to write an event handler that works with ALL_EVENTS on and EDITABLE off, download the program GETIMAGE from my web page and look at the module GETIMAGE_INTEGER_ONLY. This event handler only allows the user to type integer values into a text widget. The principle here is exactly the same.

Cheers,

David

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