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Subject: Re: Text Widget Confession

Posted by [A. D. & J.C. Cool](#) on Sat, 22 Sep 2001 10:27:58 GMT

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David Fanning wrote:

>  
> P.S. Let's just say the only thing that confuses me  
> more than how text widgets work is string manipulation. :-(  
>  
> I'll give Pavel credit, though. He's done it!  
>  
> I did learn one new thing today, though. I eventually  
> went to a multiple selection list widget, which--of course--  
> returns an array of the text indices I \*don't\* want. I want  
> the inverse of this. So I found a fabulous SetDifference  
> function on that Coyote site that allowed me to fix my  
> text array in one line. Neat! :-)  
>  
> --  
> David W. Fanning, Ph.D.  
> Fanning Software Consulting  
> Phone: 970-221-0438, E-mail: david@dfanning.com  
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
> Toll-Free IDL Book Orders: 1-888-461-0155

David,

Here's a Fortran-ish, Saturday night, looking thing that will return the correct line number for (hopefully) any text file that you suck into the text widget with Dialog\_Pickfile.

Andrew

PRO Which\_Text\_Line\_event, ev

```
widget_control,ev.id,get_value = value
```

```
vsize = SIZE(value)  
line_len = strlen(value)  
line_tot = intarr(vsize(1))  
line_tot(0) = line_len(0)
```

; some smart buggar can vectorise this...

```
FOR i = 1,vsize(1)-1 DO BEGIN  
  line_tot(i) = TOTAL(line_len(0:i))  
END
```

```

cr_line_tot = line_tot + (indgen(vsize(1))+1)*2
xol = widget_info(ev.id,/text_select)
xy = widget_info(ev.id,text_offset_to_xy=xol(0))

FOR line_count = vsize(1)-1,0,-1 DO BEGIN
  if xol(0) ge cr_line_tot(line_count) THEN GOTO, stop_line_inc
END

```

```

stop_line_inc:
  print,'Correct line= ',line_count + 2

```

```

END

```

### PRO Which\_Text\_Line

;22-Sep-2001 Andrew Cool v1.00 Find line number of (start of)  
selected text in a

```

;           text widget, taking into account extra
2 characters
;           per line.

```

```

base  = widget_base()
text_id =
widget_text(base,xsize=80,ysize=20,/scroll,/all_events,/NO_NEWLINE)

```

```

file = dialog_pickfile(path='c:\idl',filter='*.pro')
if file(0) EQ "" THEN RETURN

```

```

text = strarr(3000)
line=""
count = 0
openr,lun,file,/get
While NOT EOF(lun) DO BEGIN
  readf,lun,line
  text(count) = line
  count = count + 1
END

```

```

free_lun,lun
close,lun
text = text(0:count-2)

```

```

; text = ['Sing a song of sixpence',$
;        'The birds began to sing',$
;        'Four and twenty blackbirds',$
;        'Baked in a pie',$
;        'When the pie was opened',$

```

```
; 'The birds began to sing',$  
; 'Wasn"t that a dainty dish',$  
; 'To set',$  
; 'Before',$  
; 'The King?']
```

```
widget_control,text_id,set_value=text  
widget_control,text_id,/use_text_select
```

```
widget_control,base,/real
```

```
Xmanager,'Which_Text_Line',base
```

```
END
```

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