Subject: Text Widget Confession Posted by David Fanning on Fri, 21 Sep 2001 16:08:12 GMT View Forum Message <> Reply to Message

Folks,

Alright, I confess. Text widgets have always confused the hell out of me. And for years I have avoided using them, except in the very simplest way, and then only when I could find no alternative. (I've found mindreading only partially successful.)

Here is the deal. I have a text widget with a three-element string array in it:

```
theText = ['Dog', 'Cow', 'Coyote']
```

When displayed in the text widget it looks like this:

Dog Cow Coyote

I want to make a selection in the text widget. Then, when the user says "Do It", I want to delete any lines that are in the selection.

For example, if the user selects the word "Cow" and clicks "Do It", I want to delete the second line in the text widget. If the user selects "q Cow", I want to delete the first two lines, etc.

Pretty straightforward, don't you think?

But I've been fooling around with this for two hours now and haven't come up with anything remotely useful.

I can get the selection offset and length:

```
selection = Widget_Info(textID, /Text_Select)
```

In the case in which the word "Cow" is selected, the offset is 5 and the length of the selection is 3. An offset of 5!? Into what array?

Check the number of characters in the text widget:

numchar = Widget Info(textID, /Text Number)

I get 18. Wait a minute. d-o-g-... I have 12 characters. But I have three elements in my string array, and the longest of these elements is 6 characters. 3 times 6 = 18. Can it be!?

No, I convert the text to a byte array and use the selection offsets and length to try to fish the selection out. No luck. An offset of 5 still doesn't compute.

OK, let's convert the offset to "column and line" values. That "line" business sounds promising.

```
cl = Widget_Info(textID, Text_Offset_To_XY=selection[0])
Print, cl
2 1
```

Well, column equals 2 is confusing. But line 1 looks promising. I'm definitely in line 1!!! But, if I select "ow" instead of "Cow" I now get the values 0 and 2 for column and line. Sigh...

Here is some example code I'm using to explore the possibilities. Does anyone have any ideas?

Cheers,

David

PRO Example_Event, event Widget_Control, event.top, Get_UValue=textID

; Get the current text selection.

selection = Widget_Info(textID, /Text_Select)
Print, ""
Print, 'Selection Offset: ', selection[0]
Print, 'Selection Length: ', selection[1]

; Print the number of characters in the text value.

numchar = Widget_Info(textID, /Text_Number)
Print, 'Number of Characters in Text Widget: ', numchar

; Try to find the word using the offsets and lengths.

; No luck

```
Widget Control, textID, Get Value=theText
array = Byte(theText)
IF selection[1] NE 0 THEN BEGIN
 word = array[selection[0]:selection[0]+selection[1]-1]
 Print, 'Bytes Selected: ', word
 Print, 'Selected Word: ', String(word)
ENDIF ELSE Print, 'No Selection'
 ; Get the selected text. OK, I can find the selected
 ; text, but what lines do I have?
Widget_Control, textID, Get_Value=selectText, /Use_Text_Select
Print, 'Selected Text: ', selectText
 ; Try to convert text offset to columns and lines (?).
cl = Widget_Info(textID, Text_Offset_To_XY=selection[0])
Print, 'Offset starts in this column: ', cl[0]
Print, 'Offset starts in this line: ', cl[1]
END; -----
PRO Example
tlb = Widget_Base(Column=1)
button = Widget_Button(tlb, Value='Do It')
textID = Widget_Text(tlb, Scr_XSize=100, $
 YSize=20, Value=['Dog', 'Cow', 'Coyote'])
Widget Control, tlb, /Realize, Set UValue=textID
XManager, 'example', tlb, /No_Block
END: -----
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
Subject: Re: Text Widget Confession
```

Posted by R.Bauer on Fri, 21 Sep 2001 17:28:47 GMT View Forum Message <> Reply to Message

David Fanning wrote:

>

> Folks.

```
>
> Alright, I confess. Text widgets have always confused
> the hell out of me. And for years I have avoided using
> them, except in the very simplest way, and then only
> when I could find no alternative. (I've found mind-
> reading only partially successful.)
>
 Here is the deal. I have a text widget with
>
  a three-element string array in it:
>
    theText = ['Dog', 'Cow', 'Coyote']
>
>
  When displayed in the text widget it looks like this:
>
>
    Dog
>
>
    Cow
    Coyote
>
> I want to make a selection in the text widget.
> Then, when the user says "Do It", I want to
  delete any lines that are in the selection.
>
> For example, if the user selects the word "Cow"
> and clicks "Do It", I want to delete the second
> line in the text widget. If the user selects
  "g Cow", I want to delete the first two lines, etc.
 Pretty straightforward, don't you think?
>
> But I've been fooling around with this for two hours
  now and haven't come up with anything remotely useful.
>
  I can get the selection offset and length:
>
    selection = Widget_Info(textID, /Text_Select)
>
>
> In the case in which the word "Cow" is selected,
> the offset is 5 and the length of the selection
 is 3. An offset of 5!? Into what array?
>
> Check the number of characters in the text widget:
>
    numchar = Widget_Info(textID, /Text_Number)
>
>
> I get 18. Wait a minute. d-o-g-... I have 12
> characters. But I have three elements in my
> string array, and the longest of these elements
> is 6 characters. 3 times 6 = 18. Can it be!?
```

```
>
> No, I convert the text to a byte array and use
> the selection offsets and length to try to fish
> the selection out. No luck. An offset of 5
> still doesn't compute.
> OK, let's convert the offset to "column and line"
> values. That "line" business sounds promising.
    cl = Widget Info(textID, Text Offset To XY=selection[0])
>
>
    Print, cl
     2 1
> Well, column equals 2 is confusing. But line 1 looks
> promising. I'm definitely in line 1!!! But, if I select
  "ow" instead of "Cow" I now get the values 0 and 2 for
> column and line. Sigh...
> Here is some example code I'm using to explore the
  possibilities. Does anyone have any ideas?
>
> Cheers,
> David
```

Dear David,

I will explain what happens.

The text in the text widget if you set ysize=1 will be a long line of 'DogCowCoyote'.

Then if you click somewhere in the text you get the offset right back.

OK you like to have each word in a line, the smalles ysize could be 3.

Now Dog gets a linebreak character at the end, Cow and Coyote too.

That's the reason why you have at the end of Coyote an offset of 14 characters

by linux. Windows has two characters 10b and 13b at each line this means an

offset of about 16.

This makes it very difficulty to use a text widget instead of the table

or list widget.
I would prefer the list widget. It's very easy to exchange it in your code.
cheers
Reimar
 Reimar Bauer
Institut fuer Stratosphaerische Chemie (ICG-1) Forschungszentrum Juelich email: R.Bauer@fz-juelich.de http://www.fz-juelich.de/icg/icg1/
a IDL library at ForschungsZentrum Juelich http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml
http://www.fz-juelich.de/zb/text/publikation/juel3786.html
read something about linux / windows http://www.suse.de/de/news/hotnews/MS.html

Subject: Re: Text Widget Confession

Posted by Don J Lindler on Fri, 21 Sep 2001 17:43:45 GMT

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"David Fanning" <david@dfanning.com> wrote in message news:MPG.161513d4da1fb1889896b9@news.frii.com...

> Folks.

>

- > Alright, I confess. Text widgets have always confused
- > the hell out of me. And for years I have avoided using
- > them, except in the very simplest way, and then only
- > when I could find no alternative. (I've found mind-
- > reading only partially successful.)

> ..

David,

I think you are confused because you chose an unfornunate example. ['Dog','Cow','Coyote']

The length of the lines are 5, 5, and 8 which add to 18. I assume it is the characters in the line plus a line feed and <cr>
 So that Line 0 starts at offset 0, line 1 starts at offset 5 and line 3 starts at offset 10.

Since the Text_Offset_to_XY keyword in Widget_Info does not seem to work right, you will have to compute the offsets to each line manually by accumulating the string lengths plus 2 for all previous lines.

Wouldn't a list widget work better for what you are doing?

Don Lindler lindler@rockit.gsfc.nasa.gov

Subject: Re: Text Widget Confession
Posted by David Fanning on Fri, 21 Sep 2001 18:03:01 GMT
View Forum Message <> Reply to Message

Don J Lindler (lindler@rockit.gsfc.nasa.gov) writes:

- > I think you are confused because you chose an unfornunate example.
- > ['Dog','Cow','Coyote']

Well, I have to think simply or *nothing* works. :-)

- > The length of the lines are 5, 5, and 8 which add to 18. I assume it is the
- > characters in the line plus a line feed and <cr>>. So that Line 0 starts at
- > offset 0, line 1 starts at offset 5 and line 3 starts at offset 10.

Of course, I immediately assumed that each line had a carriage return and a line feed. But the odd thing is that I can't recover them. Where are they? Converting the text to a byte array results in zeros, but no 10s or 13s. (Not to mention there are not enough 0s either.)

- > Since the Text_Offset_to_XY keyword in Widget_Info does not seem to work
- > right, you will have to compute the offsets to each line manually by
- > accummulating the string lengths plus 2 for all previous lines.

Well, yes, but surely this is not what RSI had in mind here, is it? I mean, this isn't object graphics, right?

> Wouldn't a list widget work better for what you are doing?

Of course, and that is exactly how I solved the problem. But it didn't really clear up any of my questions. :-)

Cheers.

David

--

David W. Fanning, Ph.D. Fanning Software Consulting

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Subject: Re: Text Widget Confession
Posted by Pavel A. Romashkin on Fri, 21 Sep 2001 18:08:57 GMT
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David Fanning wrote:

>

- > Wouldn't a list widget work better for what you are doing?
- > Of course, and that is exactly how I solved the problem.
- > But it didn't really clear up any of my questions. :-)

David.

I could not believe you'd give up so easily :-(

The following code seems to do what you want with WIDGET_TEXT on both Mac and W2K. I am sorry folks but I am too dumb for all your LFs and CRs so I just ignored it all.

It only prints the index of items to be deleted from the origunal value of the widget. But that should be fairly easy to set up.

```
Cheers,
Pavel
.********
PRO Example_Event, event
Widget_Control, event.top, Get_UValue=textID
Widget Control, textID, Get Value=selectText, /Use Text Select
Widget_Control, textID, Get_Value=theText
it = strjoin(thetext, string(1b))
is = strjoin(selecttext, string(1b))
rs = it
strput, rs, string(byte(js) < 2b), strpos(jt, js)
print, where(strsplit(rs, string(1b), /extract) ne thetext)
END: -----
.*****
PRO Example
tlb = Widget Base(Column=1)
button = Widget Button(tlb, Value='Do It')
textID = Widget Text(tlb, Scr XSize=100, $
 YSize=20, Value=['Dog', 'Cow', 'Coyote'])
Widget Control, tlb, /Realize, Set UValue=textID
XManager, 'example', tlb, /No Block
END; -----
```

Subject: Re: Text Widget Confession
Posted by David Fanning on Fri, 21 Sep 2001 18:19:57 GMT
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Pavel A. Romashkin (pavel.romashkin@noaa.gov) writes:

David

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! :-)

--

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Subject: Re: Text Widget Confession Posted by R.Bauer on Fri, 21 Sep 2001 18:34:03 GMT

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```
David Fanning wrote:
```

>

> Don J Lindler (lindler@rockit.gsfc.nasa.gov) writes:

>

- >> I think you are confused because you chose an unfornunate example.
- >> ['Dog','Cow','Coyote']

>

> Well, I have to think simply or *nothing* works. :-)

> .

- >> The length of the lines are 5, 5, and 8 which add to 18. I assume it is the
- >> characters in the line plus a line feed and <cr>>. So that Line 0 starts at
- >> offset 0, line 1 starts at offset 5 and line 3 starts at offset 10.

>

- > Of course, I immediately assumed that each line had
- > a carriage return and a line feed. But the odd thing
- > is that I can't recover them. Where are they? Converting
- > the text to a byte array results in zeros, but no 10s or 13s.
- > (Not to mention there are not enough 0s either.)

for linux please try ['Dog'+string(10b)+'Coyote'+string(10b)] and ysize=1

this gives the same result as Davids list and ysize=3.

But I was not able to reproduce this on windows.

Reimar

```
>
>> Since the Text_Offset_to_XY keyword in Widget_Info does not seem to work
>> right, you will have to compute the offsets to each line manually by
>> accummulating the string lengths plus 2 for all previous lines.
> Well, yes, but surely this is not what RSI had in mind
> here, is it? I mean, this isn't object graphics, right?
>> Wouldn't a list widget work better for what you are doing?
> Of course, and that is exactly how I solved the problem.
  But it didn't really clear up any of my questions. :-)
 Cheers,
> David
>
> David W. Fanning, Ph.D.
> Fanning Software Consulting
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http://www.fz-juelich.de/icg/icg1/
a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml
http://www.fz-juelich.de/zb/text/publikation/juel3786.html
```

read something about linux / windows

Subject: Re: Text Widget Confession Posted by A. D. & D. & Cool on Sat, 22 Sep 2001 10:27:58 GMT View Forum Message <> Reply to Message

```
David Fanning wrote:
```

```
> P.S. Let's just say the only thing that confuses me
> more than how text widgets work is string manipulation. :-(
>
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> 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/
```

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...
```

> Toll-Free IDL Book Orders: 1-888-461-0155

```
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 N EWLINE)
 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

Subject: Re: Text Widget Confession
Posted by David Fanning on Sun, 23 Sep 2001 17:00:40 GMT
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Andrew Cool (cooladjc@chariot.net.au) writes:

- > 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.

Well, I'm grateful for any solution, even a Fortran-ish one. :-)

It turns out a list widget, although simplifying my life, made other things more complicated. For example, one of the requirements is that we be able to cut and paste information in the "form" into an application like Excel. You can do this from a text widget, but not from a List widget, even though the two look identical on the display.

(And while I'm on the topic, how come you can't send anything but graphics output commands to the Printer? Does this make any sense to you!?)

Cheers,

David

--

David W. Fanning, Ph.D.

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Subject: Re: Text Widget Confession

Posted by Andrew Cool on Sun, 23 Sep 2001 23:21:50 GMT

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David Fanning wrote:

>

> Andrew Cool (cooladjc@chariot.net.au) writes:

>

- >> 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.

>

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- > and paste information in the "form" into an application
- > like Excel. You can do this from a text widget, but
- > not from a List widget, even though the two look identical
- > on the display.

>

- > (And while I'm on the topic, how come you can't
- > send anything but graphics output commands to the
- > Printer? Does this make any sense to you!?)

No, but what does Windows?

Why not do what we did in the Good Ol' Days? Grab the printer manual and write your own driver?

Andrew

Andrew D. Cool .->-.

Electromagnetics & Propagation Group `-<-'

Surveillance Systems Division Transmitted on

Defence Science & Technology Organisation 100% recycled

PO Box 1500, Salisbury electrons

South Australia 5108

Phone: 061 8 8259 5740 Fax: 061 8 8259 6673

Email: andrew.cool@dsto.defence.gov.au

Subject: Re: Text Widget Confession

Posted by Pavel A. Romashkin on Mon, 24 Sep 2001 15:52:25 GMT

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David Fanning wrote:

>

- > It turns out a list widget, although simplifying my
- > life, made other things more complicated.

You could use widget_text, then, by modifying the code above to include the following (sorry for not providing this to start with :-):

junk = where(strsplit(rs, string(1b), /extract) \$
 ne theText, comp=good_rows, ncomp=count)
if count ne 0 then theText = theText[good_rows]
Widget_Control, textID, Set_Value=theText

Its not copyrighted, you know :-)
Cheers,
Pavel

Subject: Re: Text Widget Confession
Posted by David Fanning on Mon, 24 Sep 2001 16:46:05 GMT
View Forum Message <> Reply to Message

Pavel A. Romashkin (pavel.romashkin@noaa.gov) writes:

David Fanning wrote:

>

- >> It turns out a list widget, although simplifying my
- >> life, made other things more complicated.
- > You could use widget_text, then, by modifying the code above to include
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- > junk = where(strsplit(rs, string(1b), /extract) \$
- > ne theText, comp=good_rows, ncomp=count)
- > if count ne 0 then theText = theText[good_rows]
- > Widget_Control, textID, Set_Value=theText
- > Its not copyrighted, you know :-)

```
No, I realize it's not copyrighted. But I feel
obligated to send you a check for $100 anyway
to compensate you for your time and effort. :-)
Cheers.
David
P.S. In case you are interested, here is the final
code responding to the Delete button:
PRO Recorder::Deletelt, event
: The method event handler deletes text lines in the current selection.
 ; Get the current text selection.
Widget_Control, self.textID, Get_Value=selectText, /Use_Text_Select
 ; Get the text itself.
theText = *self.text
 ; Hocus-pocus provided by Pavel Romashkin to circumvent
 ; RSI-supplied nonsense. V-E_R-Y clever! :-)
it = StrJoin(theText, String(1b))
js = StrJoin(selectText, String(1b))
rs = it
StrPut, rs, String(Byte(js) < 2b), StrPos(jt, js)
selection = Where(StrSplit(rs, String(1b), /Extract) NE thetext)
 ; Error checking. Look for no selection values.
IF N_Elements(selection) EQ 1 THEN BEGIN
 IF selection[0] EQ -1 THEN RETURN
ENDIF
 ; Error checking. Look for no overlap between the two vectors.
overlap = self->SetDifference(Indgen(N_Elements(*self.text)), selection)
IF N_Elements(overlap) EQ 1 THEN BEGIN
 IF overlap[0] EQ -1 THEN BEGIN
   *self.text = ""
 ENDIF ELSE BEGIN
   *self.text = (*self.text)[overlap]
```

ENDELSE ENDIF ELSE *self.text = (*self.text)[overlap]

Widget_Control, self.textID, Set_Value=*self.text

END

--

David W. Fanning, Ph.D. Fanning Software Consulting

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Subject: Re: Text Widget Confession

Posted by Don J Lindler on Mon, 24 Sep 2001 18:41:11 GMT

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I have not run the code, but it looks to me that if your text widget had something like:

hog

dog

dig

and you selected the og from dog and the d from dig. The code would select the og from hog and the d from dog. The strpos would find the first occurence of the string.

Don

lindler@rockit.gsfc.nasa.gov

"David Fanning" <david@dfanning.com> wrote in message news:MPG.1619113bbea36aa89896c2@news.frii.com...

> Pavel A. Romashkin (pavel.romashkin@noaa.gov) writes:

>

>> David Fanning wrote:

>>>

>>> It turns out a list widget, although simplifying my

>>> life, made other things more complicated.

>>

>> You could use widget_text, then, by modifying the code above to include

>> the following (sorry for not providing this to start with :-):

>>

```
>> junk = where(strsplit(rs, string(1b), /extract) $
>> ne theText, comp=good rows, ncomp=count)
>> if count ne 0 then theText = theText[good_rows]
>> Widget_Control, textID, Set_Value=theText
>>
>> Its not copyrighted, you know :-)
>
> No, I realize it's not copyrighted. But I feel
> obligated to send you a check for $100 anyway
> to compensate you for your time and effort. :-)
>
 Cheers.
>
> David
> P.S. In case you are interested, here is the final
  code responding to the Delete button:
  PRO Recorder::Deletelt, event
  ; The method event handler deletes text lines in the current selection.
>
    ; Get the current text selection.
>
  Widget_Control, self.textID, Get_Value=selectText, /Use_Text_Select
>
    ; Get the text itself.
>
>
  theText = *self.text
    ; Hocus-pocus provided by Pavel Romashkin to circumvent
>
    ; RSI-supplied nonsense. V-E_R-Y clever! :-)
>
> it = StrJoin(theText, String(1b))
> js = StrJoin(selectText, String(1b))
> rs = it
> StrPut, rs, String(Byte(js) < 2b), StrPos(jt, js)
  selection = Where(StrSplit(rs, String(1b), /Extract) NE thetext)
>
    ; Error checking. Look for no selection values.
>
> IF N_Elements(selection) EQ 1 THEN BEGIN
    IF selection[0] EQ -1 THEN RETURN
 ENDIF
    ; Error checking. Look for no overlap between the two vectors.
>
```

```
> overlap = self->SetDifference(Indgen(N_Elements(*self.text)), selection)
> IF N Elements(overlap) EQ 1 THEN BEGIN
    IF overlap[0] EQ -1 THEN BEGIN
      *self.text = ""
>
    ENDIF ELSE BEGIN
>
      *self.text = (*self.text)[overlap]
>
    ENDELSE
>
> ENDIF ELSE *self.text = (*self.text)[overlap]
>
  Widget_Control, self.textID, Set_Value=*self.text
> END
> 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
```

Subject: Re: Text Widget Confession Posted by Paul van Delst on Mon, 24 Sep 2001 19:10:04 GMT View Forum Message <> Reply to Message

```
Don J Lindler wrote:
> I have not run the code, but it looks to me that if your text widget had
>
 something like:
>
> hog
> dog
> dig
> and you selected the og from dog and the d from dig. The code would select
> the og from hog and the d from dog.
You don't happen to write under a psuedonym of Dr Seuss do you? :o)
pauly
```

Paul van Delst Religious and cultural CIMSS @ NOAA/NCEP purity is a fundamentalist Ph: (301)763-8000 x7274 fantasy Fax:(301)763-8545 V.S.Naipaul

Subject: Re: Text Widget Confession Posted by David Fanning on Mon, 24 Sep 2001 19:46:22 GMT

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Don J Lindler (lindler@rockit.gsfc.nasa.gov) writes:

- > I have not run the code, but it looks to me that if your text widget had
- > something like:

>

- > hog
- > dog
- > dig

>

- > and you selected the og from dog and the d from dig. The code would select
- > the og from hog and the d from dog. The strpos would find the first
- > occurence of the string.

W-A-A-I-I-T, don't cash that check!!!

Humm. Alright. In the actual application there is probably a very small chance something like this could happen, but it is not impossible.

The code is simple enough, I'll make it available for anyone who wants to have a go at solving this problem. You can find it here:

ftp://ftp.dfanning.com/pub/dfanning/outgoing/misc/recorder__ define.pro

You will get it running like this:

```
IDL> o = obj_new('recorder', text=['pig','dog','cow','pig','coyote'])
IDL> o->gui
```

You can add text to it like this:

IDL> o->AddText, 'rooster'

The code you want to fool around with is in the object method named Recorder::Deletelt.

So many people are involved now I should offer a prize. OK, First Prize is Liam's book, Last Prize is my book. :-(

Cheers,

David

--

David W. Fanning, Ph.D.

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Subject: Re: Text Widget Confession

Posted by Pavel A. Romashkin on Tue, 25 Sep 2001 15:57:06 GMT

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Ok. Version 2.01-1723-b01.67, beta release. Bugs fixed: one letter selections and wierd combinations of such will not confuse the program. Changes: One line change, but was very hard, because you gotta know which line to change.

Disclaimer: if works as promised or does not, the author bears no responsibility. Use with caution, may cause amazement and dizziness due to unbelievable reliability. Do not acknowledge the author for the fear of overwhelming response and eternal admiration.

PRO Example Event, event Widget_Control, event.top, Get_UValue=textID Widget Control, textID, Get Value=selectText, /Use Text Select Widget Control textID. Get Value=theText : Added line loc = (Widget Info(textID, /Text Select))[0] ; End added line it = strjoin(thetext, string(1b)) js = strjoin(selecttext, string(1b)) rs = it; Modified line strput, rs, string(byte(js) < 2b), strpos(jt, js, loc) ; End modified line junk = where(strsplit(rs, string(1b), /extract) \$ ne theText, comp=good rows, ncomp=count) if count ne 0 then the Text = the Text[good rows] Widget_Control, textID, Set_Value=theText END: -----

Cheers, Pavel

Subject: Re: Text Widget Confession
Posted by David Fanning on Tue, 25 Sep 2001 16:22:17 GMT
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Pavel A. Romashkin (pavel.romashkin@noaa.gov) writes:

- > Ok. Version 2.01-1723-b01.67, beta release. Bugs fixed: one letter
- > selections and wierd combinations of such will not confuse the program.
- > Changes: One line change, but was very hard, because you gotta know
- > which line to change.
- > Disclaimer: if works as promised or does not, the author bears no
- > responsibility. Use with caution, may cause amazement and dizziness due
- > to unbelievable reliability. Do not acknowledge the author for the fear
- > of overwhelming response and eternal admiration.

```
Oh, I don't think so. :-(
```

In fact, this may be worse.

Grab the recorder, which has this algorithm implemented:

ftp://ftp.dfanning.com/pub/dfanning/outgoing/misc/recorder___ define.pro

Then, try this:

```
IDL> o=obj_new('recorder', text=['dog','cow','coyote','dog','rooster'])
IDL> o->gui
```

Now select the second "dog". Click delete. The first dog disappears.

Now select from the last "e" in coyote to the first "r" in rooster. Click delete. *Everything* disappears!

Don't forget to destroy that object!

```
IDL> Obj Destroy, o
```

But keep working. I haven't spent that *entire* \$100 on beer... yet. :-)

Cheers.

David

P.S. Let's just say if anyone solves this one, I have another little puzzler involving contour plots that is also causing me to pull my hair out. :-(

--

David W. Fanning, Ph.D.
Fanning Software Consulting
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Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Text Widget Confession

```
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David Fanning wrote:
> Oh, I don't think so. :-(
> In fact, this may be worse.
> But keep working.
I am sorry. I forgot there some inferior platforms are confused about
all the CR-LF and such...
The following Beta 2.02.0001-20010925-b has been tested on Mac, W2K and
HP-UX. Sorry, I am out of platforms. Besides, it is backwards compatible
with IDL 5.3 now. Other requests?
.*****
PRO Example Event, event
Widget Control, event.top, Get UValue=textID
Widget Control, textID, Get Value=selectText, /Use Text Select
Widget Control, textID, Get Value=theText
: Added line
loc = Widget_Info(textID, /Text_Select)
loc = loc[0] - loc[1]*(!version.os_family eq 'Windows')
: End added line
it = strioin(thetext, string(1b))
js = strjoin(selecttext, string(1b))
rs = it
; Modified line
strput, rs, string(byte(js) < 2b), strpos(jt, js, loc)
; End modified line
good_rows = where(strsplit(rs, string(1b), /extract) $
     eq theText, count)
if count ne 0 then theText = theText[good_rows]
Widget_Control, textID, Set_Value=theText
END: -----:**********
Cheers,
Pavel
```

Posted by Pavel A. Romashkin on Tue, 25 Sep 2001 17:33:21 GMT

Subject: Re: Text Widget Confession Posted by David Fanning on Tue, 25 Sep 2001 19:17:07 GMT Pavel A. Romashkin (pavel.romashkin@noaa.gov) writes:

- > I am sorry. I forgot there some inferior platforms are confused about
- > all the CR-LF and such...
- > The following Beta 2.02.0001-20010925-b has been tested on Mac, W2K and
- > HP-UX. Sorry, I am out of platforms. Besides, it is backwards compatible
- > with IDL 5.3 now. Other requests?

Well, I can't find anything wrong with it. But I'm pretty easy to please. I'm going to see what everyone else has to say before I get my check book out again. :-)

Well done, Sir!

Cheers,

David

P.S. Are you ready for a Contour puzzle, or do you have to go back to work?

--

David W. Fanning, Ph.D. Fanning Software Consulting

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Subject: Re: Text Widget Confession
Posted by Pavel A. Romashkin on Tue, 25 Sep 2001 19:44:44 GMT
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David Fanning wrote:

>

- > P.S. Are you ready for a Contour puzzle, or do
- > you have to go back to work?

What do you mean! I *am* at work. I just can't come up with a function to fit a distribution that seems to be a power function degrading into a linear one after a while, so I am trying to convince myself that I am solving some important issue, and for that reason making no progress on the damn fit. I am almost at the point of making a lookup table :-(

Cheers.

Pavel

P.S. What the heck, send the Contour. Craig will be done with it before I even figure out what the problem is :-)