
Subject: Re: function graphics curiosity? bug?
Posted by [Jonathan](#) on Tue, 12 Dec 2017 14:44:05 GMT
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On Tuesday, December 12, 2017 at 6:37:37 AM UTC-4, Markus Schmassmann wrote:

> On 12/12/2017 02:44 AM, Jonathan wrote:

>> Have a look at the following code:

>>

>> x = findgen(128)

>> y = 1.0 + 0.1*randomn(seed,128)

>> y2 = 1.0 + 0.2 randomn(seed,128)

>> b = widget_base(xsize=480, xoffset=940, ysize=360, yoffset=0)

>> w = widget_window(b, x_scroll_size=470, y_scroll_size=350)

>> widget_control, b, /realize

>> widget_control, w, get_value=d

>> p = plot(x, y, current=d, xstyle=2, ystyle=2)

>> p2 = plot(x, y2, color='red', linestyle='', symbol='+', current=d, /overplot)

>> d.uvalue = { x:x, y:y, y2:y2, b:b, p:p, p2:p2 }

>> end

>>

>> This creates a widget window, w, under a base, b, and then places
>> two overlapping plots within that window. Now, if the data changes for the
>> second plot, I would like to do the following steps:

>>

>> y3 = 1.0 + 0.2 randomn(seed,128) ; new data

>> p2.delete ; erases the p2 data in the plot

>> p2 = plot(x, y3, color='red', , linestyle='', symbol='+', current=d, /overplot)

>> d.uvalue.p2 = p2 ; store the plot identifier in the window's uvalue structure

>>

>> The last line generates the following error message:

>> % Attempt to store into an expression: Structure reference.

>> % Execution halted at: \$MAIN\$

>> What has happened is that IDL forgot the type of d.uvalue.p2, so

>> when I try to put a new (identical) p2 there, it rejects the attempt.

>>

>> This turns out to be a huge hassle for me.

>> My solution is a kludge, which is to create a new structure for

>> d.uvalue and replace the whole thing, rather than just one element.

>>

>> Is there a better, simpler way?

>

> ; a simpler way:

> p2.putData, y3

>

> ; ps: a '*' is missing in the definition of y2 & y3

> y2 = 1.0 + 0.2 * randomn(seed,128)

> y3 = 1.0 + 0.2 * randomn(seed,128)

> ; |

>
> Directly updating the values is also much faster than creating a new
> plot. I hope this help,
>
> Markus

That answers my question. Thank you.

I don't know why this is not made clear in the documentation, nor are there examples.
