
Subject: polyfill errors?

Posted by [Peter Thorne](#) on Wed, 22 Aug 2001 11:17:20 GMT

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Hi,

I'm at the end of my tether on this one and would really appreciate any help that you can give, it may well just be a silly error on my part (problems seeing the woods for the trees). Polyfill seems to systematically shift the y-values in some plots of a multiplot by a random amount which leads to plots which are not what is required.

The current code contains the following:

```
!P.Multi=[0,4,7,0,0]
```

```
; Plot the values.
```

```
;
```

```
for sig=0,6 do begin
```

```
  for laa=0,3 do begin
```

```
    xrange=[0,21]
```

```
    yrange=[-2,3]
```

```
    Plot,xrange,yrange,xstyle=8+1,ystyle=8+1,$
```

```
      Yticks=5,Yminor=1,Xticks=3,Xminor=1,$
```

```
      /Nodata
```

```
  ; Shade the area between the upper and lower estimates in light  
grey.
```

```
    upper=upperbeta(*,laa,sig)
```

```
    lower=lowerbeta(*,laa,sig)
```

```
    toohigh=where(upper gt 3.,hc)
```

```
    if hc gt 0 then upper(toohigh)=3.
```

```
    toolow=where(lower lt -2,lc)
```

```
    if lc gt 0 then lower(toolow)=-2
```

```
    xvalue=indgen(21)+1
```

```
    xplots=[xvalue,reverse(xvalue)]
```

```
    yplots=[lower,reverse(upper)]
```

```
    polyfill, xplots,yplots,color=1
```

```
; Over plot the variables back on the plot.
```

```
oplot,xvalue,betabest(*,laa,sig),thick=3
```

```
oplot,xvalue,upper
```

```
oplot,xvalue,lower
```

```
plots,[0,21],[0,0],thick=3
```

```
plots,[0,21],[1,1],thick=3
```

```
plots,[0,21],[3,3]
```

```
plots,[21,21],[-2,3]
```

```
; Overplot crosses on the x-axis for those truncations that fail the
```

```
test
; on the residuals
residuals=where(testpass(*,laa,sig) lt 0.1, countconsfail)
residuals=residuals+1
if countconsfail ge 1 then begin
  pltvals=fltarr(21)
  pltvals(*)=-1.75
  oplot,residuals,pltvals,psym=2
  print,'Residuals inconsistent.'
endif
endfor
endfor
```

So, I end up with 24 plots (4x7) with three plot lines on each and an area of grey-shading that should be enclosed by the upper and lower lines. Trouble is it isn't!!! It is shifted vertically in some cases (either up or down) within the postscript output. I can send anyone who is interested in seeing exactly how an example .ps file (please email me if you are). I'm using IDL 5.4.

Also perhaps a tad easier, is there any way to input a line between the 2nd and 3rd and the 4th and 5th rows of the multi-plot? IDL online help doesn't immediately suggest that there is ...

Any help on either of these very very gratefully received.

Thanks

Peter
