
Subject: Re: being clever with postscript

Posted by [ianpaul.freeley](#) on Mon, 12 May 2008 22:18:35 GMT

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Here's the solution I came up with, I just wrote the stupid loops. It ends up clobbering whatever the original color table was, I'm too lazy to put in the common blocks to fix that. pyps is just my favorite postscript opening procedure, then multi_ps sets up the correct postscript files.

```
pro pyps, _extra=e, font=font, close=close, encapsulated=encapsulated
```

```
if not keyword_set(encapsulated) then encapsulated=0
;need to set this because IDL remembers /encap
```

```
if keyword_set(close) then begin
```

```
device, /close
```

```
set_plot, 'X'
```

```
!x.thick=0 ;return to normal
```

```
!y.thick=0
```

```
!p.font=-1 ;return to vector fonts
```

```
!p.charsize=0
```

```
!p.thick=0
```

```
return
```

```
endif else begin
```

```
if !d.name eq 'PS' then print, 'WARNING! Already set to
Postscript. Did you just forget to close another device?'
```

```
set_plot, 'PS'
```

```
if keyword_set(font) then !p.font=font else !p.font=0 ;set to
;hardware font
```

```
!x.thick=4 ;thick lines are nice
```

```
!y.thick=4
```

```
!p.charsize=1.25 ;bigger font is nice
```

```
!p.thick=2
```

```
;if not keyword_set(landscape) then landscape=1 ;landscape by default
device, encapsulated=encapsulated, _extra=e, /times
```

```
return
```

```
endelse
```

```
end
```

```
pro multi_ps, pn, filename=filename, _extra=e, hard_bw=hard_bw, $
close=close
```

```
;need to incorporate a way to restore  
;the original color table that gets  
;clobbered when /hard_bw set.
```

```
;generate regular rgb  
if pn eq 0 then pyps, filename=filename+'_rgb.eps', /encapsulated, $  
/color, bits=8, _extra=e
```

```
;generate cmyk  
if pn eq 1 then pyps, filename=filename+'_cmyk.eps', /encapsulated,  
$  
/color, bits=8, /cmyk, _extra=e
```

```
;generate B&W  
if pn eq 2 then begin  
  if keyword_set(hard_bw) then $  
    tvlct, [[fltarr(256)],[fltarr(256)],[fltarr(256)]]  
  
  pyps, filename=filename+'_bw.eps', /encapsulated  
endif
```

```
end
```

```
;try to make some good code for making three output files
```

```
x=findgen(101)  
y=15.+x^2-3.*x
```

```
;now to make some plots
```

```
loadct, 39
```

```
for pn=0,2 do begin ;pn=plot number  
  multi_ps, pn, filename='test', /hard_bw  
  plot, x,y,/nodata  
  oplot, x,y, color=250, psym=2  
  pyps, /close  
endfor
```

```
end
```
