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Subject: Re: symsize in data units

Posted by [pyoachim](#) on Mon, 04 May 2009 21:31:01 GMT

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```
> I think it's impossible to do with PSYM or SYMSIZE.  
>  
> On the other hand, it's simple enough to write a small procedure that  
> OPLOT's what you want, in the units you want. For example, a circle  
> could be done like this,  
>  
> pro plot_circle, xcent, ycent, symsize=radius, _EXTRA=extra  
>   th = 2*!dpi/100*dindgen(101)  
>   if n_elements(radius) EQ 0 then r = 1 else r = radius(0)  
>   x = r*cos(th) & y = r*sin(th)  
>   for i = 0, n_elements(xcent)-1 do $  
>     oplot, xcent(i)+x, ycent(i)+y, _EXTRA=extra  
>   end  
>  
> Then you can call PLOT_CIRCLE, x, y, symsize=4.5
```

Thanks Craig, that works great. I replaced your oplot with a polyfill so I could get solid points. I was also surprised that I can get this to make smaller postscript files than using the plotsym procedure. I thought for sure your routine would make giant output.

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