
Subject: Re: symsize in data units

Posted by [Craig Markwardt](#) on Mon, 04 May 2009 01:21:55 GMT

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On May 1, 5:42 pm, ianpaul.free...@gmail.com wrote:

> Does anyone know a way to set the plotting symbol size in terms of
> data units? In particular, I'd like to make the plotting symbol a
> circle with diameter 4.3 data units. Then I'd like to do it both on-
> screen and output to postscript.

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
