
Subject: Plotting symbol : Open / filled (closed) circle with a dot at the center
Posted by [Kaushal Sharma](#) on Thu, 23 Jan 2014 07:34:08 GMT

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Hello,

I need to define a new plotting symbol as a circle but with a dot inside (sun symbol for plotting not for labelling). There are routines through which open or filled circle can be used as a plotting symbol. But I did not find any which has a dot inside. Currently I am using an alternative approach:

```
plot,findgen(20),psym=sym(6)
oplot,findgen(20),psym=3
```

This serves the purpose but since there are many plot commands in my routine and for each of them I have to supply oplot command. I want to avoid writing oplot after each plot command.

It would be helpful if any of you could suggest some better way to do this.

Kaushal

Subject: Re: Plotting symbol : Open / filled (closed) circle with a dot at the center
Posted by [Fabzi](#) on Thu, 23 Jan 2014 09:42:47 GMT

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On 23.01.2014 08:34, Kaushal Sharma wrote:

> It would be helpful if any of you could suggest some better way to do this.

My suggestion would be to write your own plot procedure, like this:

```
pro Kaushal_sunplot, data, keywords
; your code
plot, data, psym=sym(6), keywords
oplot, data, psym=3, keywords
end
```

then you will have to type it only once each time.

Subject: Re: Plotting symbol : Open / filled (closed) circle with a dot at the center
Posted by [Helder Marchetto](#) on Thu, 23 Jan 2014 10:13:35 GMT

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On Thursday, January 23, 2014 8:34:08 AM UTC+1, Kaushal Sharma wrote:

> Hello,

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> I need to define a new plotting symbol as a circle but with a dot inside (sun symbol for plotting not for labelling). There are routines through which open or filled circle can be used as a plotting symbol. But I did not find any which has a dot inside. Currently I am using an alternative approach:
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>
> plot,findgen(20),psym=sym(6)
>
> oplot,findgen(20),psym=3
>
>
>
> This serves the purpose but since there are many plot commands in my routine and for each of them I have to supply oplot command. I want to avoid writing oplot after each plot command.
>
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>
> It would be helpful if any of you could suggest some better way to do this.
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>
> Kaushal

I think Fabien's suggestion is a good one.

One thing you can look at is the the UserSym procedure

(http://www.exelisvis.com/docs/USERSYM_Procedure.html).

However, it seems like the only one line is allowed. That means that you cannot disconnect the outer circle from the dot in the middle. In the example, it is shown how to produce a filled circle.

Regards,
Helder

Subject: Re: Plotting symbol : Open / filled (closed) circle with a dot at the center
Posted by [Kaushal Sharma](#) on Fri, 24 Jan 2014 07:07:32 GMT

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On Thursday, January 23, 2014 3:12:47 PM UTC+5:30, Fabien wrote:

> On 23.01.2014 08:34, Kaushal Sharma wrote:
>
>> It would be helpful if any of you could suggest some better way to do this.
>

```
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>
> My suggestion would be to write your own plot procedure, like this:
>
>
>
> pro Kaushal_sunplot, data, keywords
>
>   ; your code
>
>   plot, data, psym=sym(6), keywords
>
>   oplot, data, psym=3, keywords
>
> end
>
>
>
> then you will have to type it only once each time.
```

Hmmm... If there is no other method to do that, the one you suggested would be the best (I guess).

Thanks

Subject: Re: Plotting symbol : Open / filled (closed) circle with a dot at the center
Posted by [Kaushal Sharma](#) on Fri, 24 Jan 2014 07:12:22 GMT
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On Thursday, January 23, 2014 3:43:35 PM UTC+5:30, Helder wrote:

```
> On Thursday, January 23, 2014 8:34:08 AM UTC+1, Kaushal Sharma wrote:
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>> Hello,
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not for labelling). There are routines through which open or filled circle can be used as a plotting
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approach:
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(http://www.exelisvis.com/docs/USERSYM_Procedure.html).
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> However, it seems like the only one line is allowed. That means that you cannot disconnect the
```

outer circle from the dot in the middle. In the example, it is shown how to produce a filled circle.

>

>

>

> Regards,

>

> Helder

Helder, I am able to get a circle and then a dot inside but the problem is that this dot is connected from the circle by a line (as pointed out by you, a line showing up like a radius). So I think I will have to go with Fabien's method that is writing a separate procedure and calling it in the plotting procedure.

Thanks
