Subject: Using non-default symbols in IPLOT Posted by fgg on Mon, 14 Feb 2011 19:24:49 GMT

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Hi,

I was wondering if I could use letters or numbers as the plotting symbol (instead of SYM_INDEX = 1-8) that marks points in IPLOT? I guess the answer has to do with SYM_OBJECT, but it's not clear to me how to use it.

Thanks, fgg

Subject: Re: Using non-default symbols in IPLOT Posted by fgg on Tue, 15 Feb 2011 18:31:29 GMT

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?XYOUTS

Subject: Re: Using non-default symbols in IPLOT Posted by penteado on Tue, 15 Feb 2011 19:10:52 GMT View Forum Message <> Reply to Message

On Feb 14, 5:24 pm, fgg <fabioguimaraesgoncal...@gmail.com> wrote:

- > I was wondering if I could use letters or numbers as the plotting
- > symbol (instead of SYM_INDEX = 1-8) that marks points in IPLOT? I
- > guess the answer has to do with SYM_OBJECT, but it's not clear to me
- > how to use it.

mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5,color=[255,0,0],font=idlgrfont('courier',size=1000)) iplot,sin(dindgen(50)*!dpi/49d0),sym_object=mysymbol

Subject: Re: Using non-default symbols in IPLOT Posted by fgg on Tue, 15 Feb 2011 19:22:31 GMT View Forum Message <> Reply to Message

On Feb 15, 11:10 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Feb 14, 5:24 pm, fgg <fabioguimaraesgoncal...@gmail.com> wrote:

- > mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0],font=idlgrfont('courier',size=1000))
- > iplot,sin(dindgen(50)*!dpi/49d0),sym_object=mysymbol

Subject: Re: Using non-default symbols in IPLOT Posted by fgg on Tue, 15 Feb 2011 19:57:52 GMT

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On Feb 15, 11:10 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Feb 14, 5:24 pm, fgg <fabioguimaraesgoncal...@gmail.com> wrote:

>

- >> I was wondering if I could use letters or numbers as the plotting
- >> symbol (instead of SYM_INDEX = 1-8) that marks points in IPLOT? I
- >> guess the answer has to do with SYM_OBJECT, but it's not clear to me
- >> how to use it.

>

- > mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0],font=idlgrfont('courier',size=1000))
- > iplot,sin(dindgen(50)*!dpi/49d0),sym_object=mysymbol

Paulo, I'm getting the following error when I try to create 'mysymbol':

IDL>

mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0],font=idlgrfont('courier',size=1000))

mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0],font=idlgrfont('courier',size=1000))

% Syntax error.

Do you know why?

Subject: Re: Using non-default symbols in IPLOT Posted by fgg on Tue, 15 Feb 2011 20:12:20 GMT

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On Feb 15, 11:57 am, fgg <fabioguimaraesgoncal...@gmail.com> wrote:

- > On Feb 15, 11:10 am, Paulo Penteado <pp.pente...@gmail.com> wrote:
- >> On Feb 14, 5:24 pm, fgg <fabioguimaraesgoncal...@gmail.com> wrote:
- >>> I was wondering if I could use letters or numbers as the plotting
- >>> symbol (instead of SYM_INDEX = 1-8) that marks points in IPLOT? I
- >>> guess the answer has to do with SYM_OBJECT, but it's not clear to me

```
>>> how to use it.
>> mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0]
,font=idlgrfont('courier',size=1000))
>> iplot,sin(dindgen(50)*!dpi/49d0),sym_object=mysymbol
> Paulo, I'm getting the following error when I try to create
 'mysymbol':
> IDL>
  mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0]
,font=idlgrfont('courier',size=1000))
>
   mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0]
,font=idlgrfont('courier',size=1000))
  % Syntax error.
> Do you know why?
This seems to work:
mysymbol=obj_new('idlgrtext','A',alignment=0.5,vertical_alig nment=0.5,color=[255,0,0],
font=obj_new('idlgrfont','courier',size=1000))
Subject: Re: Using non-default symbols in IPLOT
Posted by Paul Van Delst[1] on Tue, 15 Feb 2011 20:23:38 GMT
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fgg wrote:
> On Feb 15, 11:10 am, Paulo Penteado <pp.pente...@gmail.com> wrote:
```

```
>> On Feb 14, 5:24 pm, fgg <fabioguimaraesgoncal...@gmail.com> wrote:
>>
>>> I was wondering if I could use letters or numbers as the plotting
>>> symbol (instead of SYM_INDEX = 1-8) that marks points in IPLOT? I
>>> guess the answer has to do with SYM_OBJECT, but it's not clear to me
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>> mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0]
,font=idlgrfont('courier',size=1000))
>> iplot,sin(dindgen(50)*!dpi/49d0),sym_object=mysymbol
>
> Paulo, I'm getting the following error when I try to create
> 'mysymbol':
>
> IDL>
> mysymbol=idlgrtext('A',alignment=0.5,vertical_alignment=0.5, color=[255,0,0]
,font=idlgrfont('courier',size=1000))
```

```
>
  mysymbol=idlgrtext('A',alignment=0.5,vertical alignment=0.5, color=[255,0,0]
,font=idlgrfont('courier',size=1000))
  % Syntax error.
>
> Do you know why?
You have IDL v7.x?
In IDL v8, the capability to use the object name as the constructor function was introduced. So
along with the usual
 x = obj_new('myobject')
you can also do
 x = myobject()
Subject: Re: Using non-default symbols in IPLOT
Posted by fgg on Tue, 15 Feb 2011 20:28:36 GMT
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> You have IDL v7.x?
> In IDL v8, the capability to use the object name as the constructor function was introduced. So
along with the usual
   x = obj_new('myobject')
> you can also do
   x = myobject()
7.1.1. Thanks for clarifying, Paul.
Subject: Re: Using non-default symbols in IPLOT
Posted by fgg on Tue, 15 Feb 2011 20:43:32 GMT
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```

One last question and I promise I'm done with this topic! :)

I actually have a vector of strings, say:

mysymbol=obj_new('idlgrtext',

['A','B','C',...],alignment=0.5,vertical_alignment=0.5,color =[255,0,0], font=obj_new('idlgrfont','courier',size=1000))

and I'd like to plot the 1st string as the symbol for the 1st point, the 2nd string as the symbol for the 2nd point, and so on...

Do I have to create a loop for that? Or there is a simpler way?

If I do:

plot, x, y, sym_object=mysymbol, /scatter

with x and y having the same size as the vector of strings in mysymbol, IDL plots all strings, superimposed, for every (x,y) pair.

Subject: Re: Using non-default symbols in IPLOT Posted by penteado on Tue, 15 Feb 2011 21:18:01 GMT View Forum Message <> Reply to Message

On Feb 15, 6:43 pm, fgg <fabioguimaraesgoncal...@gmail.com> wrote:

- > I actually have a vector of strings, say:
- >
- > mysymbol=obj_new('idlgrtext',
- > ['A','B','C',...],alignment=0.5,vertical_alignment=0.5,color
- > = [255,0,0],
- > font=obj_new('idlgrfont','courier',size=1000))
- >
- > and I'd like to plot the 1st string as the symbol for the 1st point,
- > the 2nd string as the symbol for the 2nd point, and so on...
- >
- > Do I have to create a loop for that? Or there is a simpler way?

If there is, I would like to know it.