Subject: For..Do loop. IDL Beginner
Posted by smnadoum on Mon, 17 Oct 2016 23:46:29 GMT
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Hi,

I am trying to plot the following using For.. Do loop.

i. x, y2 ; psym = -4
ii. x, y3 ; psym = -5
iii. x, y4; psym = -6

Can anyone help? Thanks

Subject: Re: For..Do loop. IDL Beginner
Posted by Nikola on Tue, 18 Oct 2016 09:39:16 GMT
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On Tuesday, October 18, 2016 at 12:46:43 AM UTC+1, Cheryl wrote:
> Hi,
>
> I am trying to plot the following using For.. Do loop.
>
> i. x, y2 ; psym = -4
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> iii. x, y4; psym = -6
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> Can anyone help? Thanks

From your question is not very clear what you want to do and why. I guess your problem is that y's are different functions with different number of elements so that you have to deal with different variable names in a loop.

Here is a quick solution that may help you to move forward. (Note that the EXECUTE command should be used with extra caution - read IDL help on it!.)

```
syms = [-4, -5, -6]
for i = 0, N_ELEMENTS(syms)-1 DO BEGIN
  IF i eq 0 THEN cmd = 'plot' ELSE cmd = 'oplot'
  log = EXECUTE(cmd + ', x, y'+strcompress(string(i), /rem)+', psym = syms[i]')
ENDFOR
```

Subject: Re: For..Do loop. IDL Beginner
Posted by Markus Schmassmann on Tue, 18 Oct 2016 10:50:33 GMT

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On 10/18/2016 11:39 AM, Nikola Vitas wrote:
> On Tuesday, October 18, 2016 at 12:46:43 AM UTC+1, Cheryl wrote:
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> log = EXECUTE(cmd + ', x, y'+strcompress(string(i), /rem)+', psym = syms[i]')
> ENDFOR
easiest is

g=plot(x, y2, psym = -4)
void=plot(x, y3, psym = -5, overplot=g)
void=plot(x, y4, psym = -6, overplot=g)

if it needs to be a loop, eighter use EXECUTE, or

p=ptrarr(3)
*p[0]=y2
*p[1]=y3
*p[2]=y4
g=!null
for i=0,2 do g=plot(x,*p[i],psym=-3-i,overplot=g)

You probably could use a LIST or another data type as well instead of
pointers, if you prefer.

Subject: Re: For..Do loop. IDL Beginner
Posted by Haje Korth on Tue, 18 Oct 2016 11:27:58 GMT
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On Tuesday, October 18, 2016 at 5:39:23 AM UTC-4, Nikola Vitas wrote:
> Here is a quick solution that may help you to move forward. (Note that the EXECUTE command

should be used with extra caution - read IDL help on it!.)
>

I think you are missing the point. I seems that it is the OP's intent to avoid reading ANY IDL help or documentation and have the newsgroup solve all course exercises.

Subject: Re: For..Do loop. IDL Beginner
Posted by smnadoum on Thu, 27 Oct 2016 21:27:47 GMT
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On Tuesday, October 18, 2016 at 4:28:00 AM UTC-7, Haje Korth wrote:
> On Tuesday, October 18, 2016 at 5:39:23 AM UTC-4, Nikola Vitas wrote:
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Hi Haje,

you are right, it is a course exercise for a course that I am actually not taking, this is basically an exercise that I am working on to learn IDL. I am only looking for help because I feel like I am stuck and don't know how to solve these IDL problems. I do have a couple of books that I am reading and when I don't find the answer I look online. You don't have to help if you don't want to. and instead of wasting 5 min of your time writing that comment, you couldve just ignored it if it bothers you this much.
please don't make any judgement from behind the monitor.

Subject: Re: For..Do loop. IDL Beginner
Posted by Bill Davis on Wed, 07 Dec 2016 20:23:11 GMT
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On Thursday, October 27, 2016 at 5:28:01 PM UTC-4, Cheryl wrote:
> On Tuesday, October 18, 2016 at 4:28:00 AM UTC-7, Haje Korth wrote:
>> On Tuesday, October 18, 2016 at 5:39:23 AM UTC-4, Nikola Vitas wrote:
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; using direct graphics:

```
syms =[-4, -5, -6 ]
x = findgen(100)
y2 = x
y3 = x/3
y4 = x/4
y = [[y2], [y3], [y4]]

plot, x, y[*,0], psym=syms[0]
for i = 1, 2 do oplot, x, y[*,i], psym=syms[i]
```