
Subject: Re: draw spheres in 3D space

Posted by [Junum](#) on Mon, 06 Jun 2011 19:31:22 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Jun 6, 2:21 pm, Michael Galloy <mgal...@gmail.com> wrote:

> On 6/6/11 1:14 PM, Junum wrote:

>

>

>

>

>

>> On Jun 6, 2:03 pm, Paulo Penteado<pp.pente...@gmail.com> wrote:

>>> On Jun 6, 3:53 pm, Junum<junshi...@gmail.com> wrote:

>

>>>> On Jun 6, 1:50 pm, Junum<junshi...@gmail.com> wrote:

>

>>>> > Hello,

>

>>>> > I wan to know how to draw spheres in 3D space with xyz axes.

>>>> > For example, I have 7 spheres with radius of 1 and its center is at

>>>> > (0,0,0)

>>>> > (2,0,0)

>>>> > (-2,0,0)

>>>> > (0,2,0)

>>>> > (0,-2,0)

>>>> > (0,0,2)

>>>> > (0,0,-1).

>>>> > Since I don't have idea for 3D drawing, it is hard to start.

>>>> > Could you let me know any clue, help, suggestion?

>>>> > Thank you very much.

>

>>>> > Sincerely,

>>>> > Jun

>

>>>> There was a typo.

>>>> A center of the last sphere should be (0,0,-2).

>

>>>> Jun

>

>>> xyz=[[0,0,0],[2,0,0],[-2,0,0],[0,2,0],[0,-2,0],[0,0,2],[0,0,-2]]

>>> p=plot3d(xyz[0,*],xyz[1,*],xyz[2,*],sym_object=orb(),/

>>> undocumented,linestyle='none')

>

>> Thank you for suggestion, but I got error message,

>

>> IDL> xyz=[[0,0,0],[2,0,0],[-2,0,0],[0,2,0],[0,-2,0],[0,0,2],[0,0,-2]]

>> IDL> p=plot3d(xyz[0,*],xyz[1,*],xyz[2,*],sym_object=orb(),/

>> undocumented,linestyle='none')

```

>
>> p=plot3d(xyz[0,*],xyz[1,*],xyz[2,*],sym_object=orb(),/
>> undocumented,linestyle='none')
>>                                     ^
>> % Syntax error.
>
>> I am using IDL 7.0.
>
> This should work on older versions of IDL:
>
> model = obj_new('IDLgrModel')
> model->add, obj_new('orb', pos=[ 0, 0, 0], radius=1., color=[255, 215, 0])
> model->add, obj_new('orb', pos=[ 2, 0, 0], radius=1., color=[255, 215, 0])
> model->add, obj_new('orb', pos=[-2, 0, 0], radius=1., color=[255, 215, 0])
> model->add, obj_new('orb', pos=[ 0, 2, 0], radius=1., color=[255, 215, 0])
> model->add, obj_new('orb', pos=[ 0,-2, 0], radius=1., color=[255, 215, 0])
> model->add, obj_new('orb', pos=[ 0, 0, 2], radius=1., color=[255, 215, 0])
> model->add, obj_new('orb', pos=[ 0, 0,-2], radius=1., color=[255, 215, 0])
>
> xobjview, model
>
> Mike
> --
> Michael Galloywww.michaelgalloy.com
> Modern IDL, A Guide to Learning IDL:http://modernidl.idldev.com
> Research Mathematician
> Tech-X Corporation

```

Thank you very much for help.
 It is really cool.
 How can I add xyz axes on this plot?
 Thank you.

Jun
