
Subject: Re: draw spheres in 3D space

Posted by [Michael Galloy](#) on Mon, 06 Jun 2011 19:21:49 GMT

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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:

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>>> 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

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Michael Galloy

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Modern IDL, A Guide to Learning IDL: <http://modernidl.idldev.com>

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