

# Showing data and functions

## How I can show X-Y-Z data in 3D?

Hi,

You can use "HPlot3D" canvas and P2D data for plotting. Here is an example:

```
from jhplot import *
from java.util import Random
from java.awt import Color

c1 = HPlot3D("Canvas",500,500)
c1.setGTitle("Interactive 3D galaxy")
c1.setRange(-10,10,-10,10,-10,10)
c1.setNameX("X")
c1.setNameY("Y")
c1.visible(1)
```

```
# create P2D objects in 3D
p1= P2D("Galaxy")
p1.setSymbolSize(2);
p1.setSymbolColor(Color.blue);
```

```
rand = Random()
for i in range(5000):
    x=3*rand.nextGaussian()
    y=3*rand.nextGaussian()
    z=0.4*rand.nextGaussian()
    p1.add(x,y,z)
c1.draw(p1)
```

```
h2=P2D("Core")
h2.setSymbolSize(2)
h2.setSymbolColor(Color.yellow)
for i in range(5000):
    x=0.9*rand.nextGaussian()
    y=0.9*rand.nextGaussian()
    z=0.8*rand.nextGaussian()
    h2.add(x,y,z)
c1.draw(h2)
```

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