Subject: Is there a simple way to describe and plot a simple geometry
Posted by OliverS on Fri, 07 Nov 2008 09:52:02 GMT
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Hi everyone.

I have a problem with finding a adequate way of plotting results of my simulations.

The model has a fixed geometry consisting of several identical cylinders. I want to plot a cut showing the x-y plane, where I color the circles in dependence of the results.

My first idea to resolve the problem was plotting circles defined with USERSYM at the specified positions. But I am not happy with this solution because it is very difficult to get the right proportions between symbolsize and distance between the positions in the plot.

a short code sample of my first idea:

```
X = (INDGEN(196)/14)*0.63 + 0.63
Y = (INDGEN(196) MOD 14)*0.63 + 0.63
; Make a vector of 16 points, A[i] = 2pi/16:
A = FINDGEN(17) * (!PI*2/16.)
R = 3
; Define the symbol to be a unit circle with 16 points,
; and set the filled flag:
USERSYM, COS(A)*R, SIN(A)*R, /FILL
plot, x,y, LINESTYLE=3, PSYM=8, XRANGE=[0,10], YRANGE=[0,10]
```

I would be very glad vor any advice how to solve the problem in a better way.