Subject: Re: disk with hole Posted by Craig Markwardt on Wed, 14 Nov 2007 16:08:36 GMT View Forum Message <> Reply to Message

"jochem.verelst@gmail.com" <jochem.verelst@gmail.com> writes:

- > Hi IDL gurus,
- > Has anybody an idea on how to create a disk with hole? So to say, it
- > is a circle within another circle and that surface should be filled.
- > Thanks to the great website of DF drawing 2 cricles is the easy part.
- > But filling the space in between seems to be the hard part. Anyone can
- > guide me further?

It's not that hard if you approximate a circle with a polygon.

```
IDL > th = dindgen(1001)*2d*!dpi/1000d
IDL> c = cos(th) & s = sin(th)
IDL > r1 = 1d & r2 = 2d
IDL > x = [r1*c, r2*reverse(c)]
IDL> y = [r1*s, r2*reverse(s)]
IDL> plot, [-5,5], [-5,5], /nodata
IDL> polyfill, x, y
```

Also, I think there's nothing stopping you from making this the USERSYM, and then overplotting it to your heart's content.

Good luck! Craig Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response