
Subject: Re: making a circle of certain values

Posted by [Craig Markwardt](#) on Wed, 03 Oct 2007 08:42:30 GMT

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

David Fanning <david@dfanning.com> writes:

> rpertaub@gmail.com writes:

>

>> I have a set of data points (x,y coordinates) that can be plotted on

>> my 1240,1024 array. However, they are sparse x,y spots across the

>> image, and I want to 'thicken' it by drawing a circle with my x,y as

>> centers. I want to give it a certain radius and a certain value too,

>> so that the pixels in the circle (the filling) have values and can

>> thus contribute to my rgb image...

>> anyone know how to draw a circle, and assign a value to pixels within

>> that circle?

>

> I'd use the most useful routine I ever downloaded from the NASA

> Astronomy library: TVCIRCLE.

>

> You will probably have to write a new output keyword for that routine

> to recover the XY locations of the polygon it creates for the circle.

> Then use POLYFILLV to find the indices of the image inside that polygon.

>

Hmm, I just use this all the time:

```
pro circsym, _EXTRA=extra
  theta=findgen(26)*0.251327412
  xsym=cos(theta)
  ysym=sin(theta)
  usersym, xsym, ysym, _EXTRA=extra
  return
end
```

either with CIRCSYM by itself, or CIRCSYM, /FILL, and then I'm ready to plot with PSYM=8 and whatever SYMSIZE I want. And the circles stay round!

Craig

--

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