Subject: Re: extract points of acircle
Posted by Craig Markwardt on Wed, 17 Aug 2016 16:06:24 GMT
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On Tuesday, August 16, 2016 at 11:21:20 AM UTC-4, AGW wrote:
> Hi,
> I want to plot four circles on picture then extract mean x,y for every circle
> I use this program.
>
> ;**
> FUNCTION CIRCLE, xcenter, ycenter, radius
> points = (2 * !PI / 99.0) * FINDGEN(100)
> x = xcenter + radius * COS(points)
> y = ycenter + radius * SIN(points)
> RETURN, TRANSPOSE([[x],[y]])
> END
>
> restore,file='sm.isv' ;/v
> sm1=sm[*,*,5]
> window,0,xs=999,ys=512
> tvscl,sm1
>
> n=5
> for i=0,n-1 do begin
> radius=10*i
> pp=circle(200,352,radius)
> cgPlotS, pp,color='red',thick=2.0, /Device
>
> ;************************************
>
> at this point no problem, I want to print mean(x,y) for every circle
>
> how can I do it ?

Not sure what you are after. The mean value of the sampled coordinates of a circle is just the centroid. In your example, AVERAGE(pp[0,*]) is simply 200 and AVERAGE(pp[1,*]) is 352. Did you want to extract some information about the picture inside the circle?