
Subject: Re: extract points of acircle

Posted by [wlandsman](#) on Thu, 18 Aug 2016 17:46:04 GMT

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Its not the most efficient way, but I would use the program dist_circle.pro
http://idlastro.gsfc.nasa.gov/ftp/pro/image/dist_circle.pro

```
dist_circle, dim, N, xcenter, ycenter  
g = where( dim lt radius)
```

where N is the dimension of the square array. g will give the 1-d index of every pixel within the specified radius. You can use ARRAY_INDICES() to convert this 1d index into separate X and Y subscript values. --Wayne

On Thursday, August 18, 2016 at 10:30:18 AM UTC-4, AGW wrote:

> On Tuesday, August 16, 2016 at 5:21:20 PM UTC+2, 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 ?

>>

>> help, please

>

> every point in circle have a coordinates x,y, I want to extract this coordinates for every circle
