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Subject: Re: extract circle from data with idl

Posted by [Markus Schmassmann](#) on Wed, 11 Oct 2017 12:41:43 GMT

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On 10/11/2017 02:23 PM, termybel@gmail.com wrote:

> How can extract an circle or an ellipse from my data with IDL?  
> With a contour plot my data form a circle, I need to know the center  
> of this circle. From the geometry I know that if I know 3 points I  
> can extract a circle, are there routine or function something else in  
> IDL that using, reading my data, can give me the center?

; without using the properties of the circle or ellipse:

```
; DATA being the data to be contoured
data=2-((-1:1:1]^2)#replicate(1.,21))-(replicate(1.,21)#[(-1:1:1]^2))
; LEVEL the appropriate level to contour
level=1.
contour, data, path_info=li, path_xy=lines, /path_data_coord, $
      levels=[level], /path_double
if n_elements(li) ne 1 then message, 'not exactly 1 contour'

cont_obj =obj_new('IDLanROI',lines)
void= cont_obj.ComputeGeometry(centroid=center)

print, center[0:1]

;; otherwise use math to calculate the center
```

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