
Subject: disk arc

Posted by [Masoud Afshari](#) on Wed, 30 Mar 2016 16:21:32 GMT

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Dears,

I plot a disk with using `dist_circle` comand line. Now I want to divide the disk to 8 equal arcs and determine which points are inside each arc.

how can I do this??

thanks

Subject: Re: disk arc

Posted by [wlandsman](#) on Wed, 30 Mar 2016 20:45:11 GMT

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If you have a set of X, Y positions and a center position `xc,yc` then you can find the angle from the center

`ang = atan( x-xc, y-yc)`

You can then assign the angles into sectors of size $\pi/4$

On Wednesday, March 30, 2016 at 12:21:35 PM UTC-4, Masoud Afshari wrote:

> Dears,

> I plot a disk with using `dist_circle` comand line. Now I want to divide the disk to 8 equal arcs and determine which points are inside each arc.

>

> how can I do this??

>

> thanks

Subject: Re: disk arc

Posted by [wlandsman](#) on Wed, 30 Mar 2016 22:47:57 GMT

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On Wednesday, March 30, 2016 at 4:45:13 PM UTC-4, wlandsman wrote:

> If you have a set of X, Y positions and a center position `xc,yc` then you can find the angle from the center

>

> `ang = atan( x-xc, y-yc)`

>

> You can then assign the angles into sectors of size $\pi/4$

>

I had X and Y reversed

```
ang = atan( y-yc, x-xc)
```

<http://www.harrisgeospatial.com/docs/ATAN.html>
