
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 command 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 command 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>
