
Subject: Routine to return indices for circle in R2
Posted by [David Foster](#) on Mon, 08 Sep 1997 07:00:00 GMT
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Has someone written, seen or heard of a routine that will return the indices of a circle within an image of given dimensions, given the radius and center coordinate of the circle? I vaguely remember seeing this in a newsgroup post some time ago.

For an image of size NX x NY, with the circle at coordinate (Cx,Cy) and radius R, I came up with:

```
indices = lindgen(long(NX)*NY)
yc = indices / NY
xc = indices - (yc * NY)
circle = where( sqrt( (xc - Cx)^2 + (yc-Cy)^2 ) le R )
```

Can anyone suggest a method that is (a) faster, (b) more clever, (c) more elegant, or (d) uses less memory. I'd be willing to settle for just one of the above!

Thanks!

Dave
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