
Subject: Making array out of sinc

Posted by [sirvival](#) on Fri, 27 Aug 2010 11:00:40 GMT

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Hi,

I want to create an array out of two sinc function.

My code looks like this right now:

```
;sinc psf
  x=findgen(201)-100
  psfx3=DBLARR(N_ELEMENTS(X))
  for i=0, n_elements(x)-1 do begin
    if x(i) eq 0 then begin
      psfx3(i)=1
    endif else begin
      psfx3(i)=sin(x(i))/(x(i))
    endelse
  endfor
  y=findgen(81)-40
  psfy3=DBLARR(N_ELEMENTS(y))

  for i=0, n_elements(y)-1 do begin
    if y(i) eq 0 then begin
      psfy3(i)=1
    endif else begin
      psfy3(i)=sin(y(i))/(y(i))
    endelse
  endfor
  psf3=psfx3#psfy3
  psf3=psf3/total(psf3)

  plot,psfx3
  stop
  plot,psfy3
  stop
  shade_surf,psf3
end
```

The result is not what I am looking for.

I want something that looks like when raindrop hits water.

So when I do a contour plot it looks like elipsis.

How can I do this?

Thanks

PS: I use IDL 7.1. Not sure when IT will upgrade to 8.0
