
Subject: oplot for plots

Posted by [Nic](#) on Fri, 18 Aug 2006 13:32:44 GMT

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Hi all!

I am trying to draw 10 arrows randomly placed in the x-y plane to their $z(x,y)$ value.

Here is what I have tried so far:

PRO IMPULSE_2D

; This procedure produces a 2-D impulse function plot with 10 arrows.

; The number of arrows can be adjusted by the for loop.

; make graphics window plot

; 3-D sin function from p. 271 Practical IDL programming by Gumley

v=findgen(41)*.5-10

x=rebin(v, 41,41, /sample)

y=rebin(transpose(v), 41, 41, /sample)

r=sqrt(x^2+y^2)+1.0e-6

z=sin(r)/r

window, /free

surface, z, title='A 2-D impulse function', xtitle='x', ytitle='y',

charsize=2, /save, /nodata

for i=0, 9 do begin

index1=fix(round(randomu(seed1)*41))

index2=fix(round(randomu(seed2)*41))

plots, [index1,index2,0], [index1,index2,z[index1,index2]], /t3d

print, i

print, index1, index2

endfor

end

It is making lines (how do I get it to plot arrows?), but I think each time the for loop runs, it is overwriting the previous loop's plots. I want to overplot each new plots to the original surface plot.

Thanks for any help. (And thank you so much for all that help with the dirac plot way back when!)

Nic
