
Subject: Re: animation

Posted by [mary2747102](#) on Tue, 24 Aug 2004 00:16:17 GMT

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Wow! Thank you very much...by the way...I have found your book as a very nice tool to learn!

I have more questions for you, if you don't mind...

1. I think I will need the loop to get the output images and insert them in the animation. The output images are produced from the flow3 procedure.

Here is the code that I have been writing, but I don't know why it does not run at all, and it also does not show any error message. (note:I have the flow3.pro, the data files and my code in the same folder.)

2. I would love to have an output window as the result that show in one of your procedures: fsc_surface. Meaning, that I could be able to rotate and zoom in the image. However, this is not a surface! Do you have any procedure that could do this for my images? This will be nicer than drawing a 3-D cube by myself. I tried the zoom command but it does not look nice either. And I tried the rotate keywords, but I have to change them every time and sort of guessing the angles....

This message was long! Sorry for the inconvenience, and I thank you very much in advance if you can give me some advice, expert!

Kind regards,
Mary T.

;there are several files that contain velocity results at different number of iterations. The purpose of the animation is to show how the vectors look at different number of iterations:

```
Filename=Dialog_Pickfile(filter='*.out',/read,/multiple)
```

```
For j=0,numFiles-1 DO BEGIN
```

```
  openR,lun,Files[j],/Get_Lun
```

```
  A=fltarr(7,49L*49L*5L)      ;create arrays to hold data in files
```

```
  ReadU,lun,data
```

```
  Free_Lun,lun
```

```
;create 3 dimensional arrays to hold vector data.
```

```
;the indices will be Velocity(x,y,z)
```

```
  U=fltarr(49L,49L,5L)
```

```
V=fltarr(49L,49L,5L)
W=fltarr(49L,49L,5L)
```

```
For i = 0L, 12004L Do Begin
```

```
    U(A(0,i)-1,A(1,i)-1,A(2,i)-1) = A(3,i)
```

```
    V(A(0,i)-1,A(1,i)-1,A(2,i)-1) = A(4,i)
```

```
    W(A(0,i)-1,A(1,i)-1,A(2,i)-1) = A(5,i)
```

```
Endfor
```

```
window,j,XSIZE=400, YSIZE=500, TITLE='IDLgrWindow[j]'
```

```
Scale3, xr=[0,50],yr=[0,50],zr=[50,0],AX=50, AZ=50
Flow3, Vx, Vy, Vz,$
    SX=posx,SY=posy,SZ=posz, $
    ARROWSIZE=.0100
```

```
;plots a cubical shape, vectors should appear inside this cube
```

```
PLOTS, [0,50], [0,0], [0,0], /T3D,color=200,line=9
PLOTS, [0,0], [0,50], [0,0], /T3D,color=200,line=9
PLOTS, [0,0], [0,0], [0,32], /T3D,color=200
PLOTS, [0,50], [0,0], [32,32], /T3D,color=200
PLOTS, [0,50], [50,50], [32,32], /T3D,color=200
PLOTS, [0,0], [50,50], [32,0], /T3D,color=200
PLOTS, [50,50], [50,0], [0,0], /T3D,color=200
PLOTS, [50,0], [50,50], [0,0], /T3D,color=200
PLOTS, [50,50], [50,50], [0,32], /T3D,color=200
PLOTS, [50,50], [0,0], [32,0], /T3D,color=200
PLOTS, [50,50], [50,0], [32,32], /T3D,color=200
PLOTS, [50,50], [50,0], [32,32], /T3D,color=200
PLOTS, [0,0], [0,50], [32,32], /T3D,color=200
```

```
XInterAnimate, Set=[400,500,3],/Showload
XInteranimate,Frame=j,Window=j
XInteranimate,50
```

```
Endfor
End
```
