
Subject: Re: Animation

Posted by [davidf](#) on Tue, 19 Aug 1997 07:00:00 GMT

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Neil Winrow writes:

- > Can anyone give me any advice?
- > I am trying to Animate a set of surface plots. Each surface plot
- > represents the output from a data file. The set of plots represent flux
- > at different photon energy, and my boss would like a small animation as
- > the photon energies increase. I can read each of the data files into the
- > program to display individually, but how can I animate the sequence,
- > using the XINTERANIMATE etc. Any advice would be greatly appreciated.

This kind of thing is easily done with XInterAnimate, since this program can take a "snap-shot" of whatever is in the current graphics window. With a surface plot, the only tricky thing is to make sure IDL is not autoscaling. If you allow autoscaling of axes, the surface will be "jumping" in the animation, which you don't normally want.

Suppose I had 10 data files named data0.dat to data9.dat containing 40 by 40 floating point data that I want to animate. And suppose I know that the maximum value in all 10 of these data sets is 1500 meters. My code to animate this data might look like this:

```
; Set up XInterAnimate

XInteranimate, Set-[300, 300, 10], /Showload

; Open the data sets. Put surface plots in the
; XInterAnimate window and take a snap-shot of them.

FOR j=0,9 DO BEGIN
  filename = 'data' + StrTrim(j,2) + '.dat'
  OpenR, lun, filename, /Get_Lun
  thisSurface = FltArr(40,40)
  ReadF, lun, thisSurface
  Free_Lun, lun
  Surface, thisSurface, ZRange=[0,1500], XStyle=1, $
    YStyle=1, ZStyle=1
  XInterAnimate, Frame=j, Window=!D.Window
ENDFOR

; Run the surface animation.

XInterAnimate
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com>
