## Subject: Re: TV, AXIS, T3D, Coordinate Systems Posted by David Fanning on Wed, 05 Feb 2003 13:44:54 GMT View Forum Message <> Reply to Message

Tobias Umblia (bias@planet-interkom.de) writes:

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> First thank you, but i must admit that i still have problems with
> understanding.
> I actually thought i had set up the transformation when i called
SCALE3 and used it by setting the T3D keyword with AXIS.
> The TV command doesn't seem to have any influence to !P.T and so
> i thought i could draw the axis right away.
>
> The problem is, as you pointed out, that !X.S, !Y.S and !Z.S have
> to be generated in the correct manner. The SURFACE procedure does
> that but SURFR and SCALE3 seem not to, although the help says that
> SURFR 'duplicates ... the features of the SURFACE routine'.
>
 So my question is what would you suggest to correctly calculating
 !X.S etc. before calling AXIS?
>
  the according piece of program looks like this:
>
> S = SIZE(x)
> SCALE3, XRANGE=[0,S[1]], YRANGE=[0,S[2]], ZRANGE=[0,S[3]]
> SHADE_VOLUME, x, level, v, p
> TV, POLYSHADE( v, p, /T3D )
> ;SURFACE, x[*,*,0], /NODATA, /NOERASE, /T3D; <--- this does work
> ;SURFR...
                   ;<--- these do
> :SCALE3...
                   :<--- not
> AXIS, ZAXIS = 0, /NOERASE, /T3D
This is probably not entirely your fault. The way SCALE3
works, the optional XRANGE, YRANGE, and ZRANGE keywords
are *required*. (Don't ask me why.) If you leave them off.
then axis scaling is unchanged, which is exactly what
you are trying to avoid. :-)
```

Cheers.

David

David W. Fanning, Ph.D. Fanning Software Consulting, Inc. Phone: 970-221-0438, E-mail: david@dfanning.com Coyote's Guide to IDL Programming: http://www.dfanning.com/ Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive