
Subject: Re: Cropping of IDLgrVolume?

Posted by [Karl Schultz](#) on Fri, 31 Jan 2003 18:08:15 GMT

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"Sebastian" <s@visita2.die.upm.es> wrote in message
news:Pine.LNX.4.44.0301311717440.9316-100000@visita2.die.upm.es...

> Hi all,

>

> does anybody know how to crop an IDLgrVolume?

The CUTTING_PLANES property.

As of 5.6, the CLIPPING_PLANES property.

> What I would like to do is this:

> Suppose your volume is a cube, then you can subdivide it into 8 equally
> sized sub-cubes.

> I would like to blend off one of these cubes.

You can use the CUTTING_PLANES property to cut the volume so that only one
of the eight sub-cubes are displayed.

I don't think that you can restrict the extent of the planes to do selective
cutting that might let you remove one sub-cube, leaving the seven others.

Is this what you want?

> And, more advanced, blend off the region of a small cube I position

> somewhere in my original volume.

The planes can be positioned anywhere.

> In vtk, for example, I can define 6 cropping planes (one parallel to each
> surface), thus subdividing the volume in 27 rectangular sub-volumes, and
> switch on or or arbitrary combinations of sub-volumes.

I don't know about being completely arbitrary, but you can certainly do
something like this with the understanding that each cutting plane defines a
half-space and successive cutting planes cut the volume in terms of
half-spaces.
