
Subject: Re: Object boundaries

Posted by [Rick Towler](#) on Tue, 27 Jul 2004 22:41:39 GMT

[View Forum Message](#) <> [Reply to Message](#)

Michael Wallace wrote:

> Is it possible to determine the boundaries of an object in an object
> graphics view? For example, say that I wanted the coordinates of an
> IDLgrAxis with it's annotations included. I'd like to get the
> coordinates which describe the bounding box of the axis and everything
> else associated with it (title, tick labels, tick marks, etc).
>

There are a couple of ways.

You can use my bounding box object available here:

<http://www.acoustics.washington.edu/~towler/RHTgrAABBRef.htm> I

It is a child of IDLgrModel which can return the bounds of all of the objects contained within it in position/extents form:

```
IDL> orb=obj_new('orb', radius=3.5, pos=[5,10,12])
% Compiled module: ORB__DEFINE.
IDL> bbox=obj_new('RHTgrAABB')
% Compiled module: RHTGRAABB__DEFINE.
IDL> bbox->add, orb
% Loaded DLM: RHTGRAABB.
IDL> bbox->getaabb, position=p, extents=e
IDL> print, p
    5.00000    10.0000    12.0000
IDL> print, e
    3.49021    3.49021    3.50000
```

It does require a DLM which I have compiled for Solaris and Windows.

Or you could use the RSI supplied `get_obj_range.pro` which might be a better fit since it seems to deal with text in a special way. Don't know for sure since I haven't played with it. You can find it in `$IDL_DIR/lib/utilities`

-Rick

> I have some other annotations in this view, and I want to make sure that
> there is sufficient spacing between these annotations and the

> annotations automatically created for the axis. I am currently
> positioning the other annotations at exact locations and most of the
> time they're fine, but if my axis gets some long tick labels which
> causes the axis title to get pushed out, the title can collide with the
> other annotations. I'm just searching for a way to position my other
> stuff relative to boundary of the axis annotation to ensure that there
> won't be any overlap. Ideas?
>
> -Mike
