
Subject: Re: programming with itools

Posted by [Michael Galloy](#) on Fri, 26 Jun 2009 17:47:33 GMT

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Anne Martel wrote:

> I've finally decided to try to figure out how to use iTools and with
> the help of the examples on michael galloys page, searching through
> code in the idl distribution and a lot of trial and error I have
> managed to setup a viewer with 2 windows, one showing a volume and the
> other showing a slice through the volume.

>
> I am stuck on a couple of things (well more than a couple but this is
> my immediate problem)and was hoping that the solutions are obvious to
> people who have played with itools more than I have:

>
> a) why does the line
> oimplane -> setproperty, orientation = 'Z'
> not have any impact on the orientation - it always sets to the default
> x orientation?

>
> b) is there any way of setting the 2nd viewport to iimage, ie no axes
> or rotations

>
> The procedure I have so far is:

>
> ivolume,/test,view_grid=[2,1]
> id = itGetCurrent(tool=otool)
> vol_id = otool->findIdentifiers('*data_space/volume', \$
> /visualizations)
> ovol = otool->getByIdentifier(vol_id)
>
> ;this bit sets up an image plane
> ops_id = otool->findIdentifiers('*imageplane*', /operations)
> oimplane = otool->getByIdentifier(ops_id)
> ;this next line doesn't do anything!
> oimplane -> setproperty, orientation = 'Z'
> result = otool->doAction(ops_id)
>
> ;now grap the data for the image plane
> oSelVis = oTool->GetSelectedItems(count=nSelVis)
> oData = oSelVis->GetParameter('IMAGEPIXELS')
> strToolID = IDLitSys_CreateTool('Image Tool',/view_next,initial_data =
> oData, visualization_type='IDLIMAGE')
> oNewTool = oTool->getByIdentifier(strToolID)
> oCreateVis = oNewTool->GetService('CREATE_VISUALIZATION')
> oParmSet = OBJ_NEW('IDLitParameterSet', \$
> DESCRIPTION='Image Plane', NAME='Image Plane',\$
> TYPE='Image', ICON='image')

```

> ; hook up the plane data
> oParmSet->Add, oData, PARAMETER_NAME='IMAGEPIXELS', /
> PRESERVE_LOCATION
> oCommandSet = oCreateVis->CreateVisualization(oParmSet, "IMAGE")
> ; amazingly the plane image updates when the volume plane is moved!
>
> any suggestions gratefully received,
> Anne

```

Try this:

```

ivolume, /test, view_grid=[2, 1]
id = itGetCurrent(tool=otool)
vol_id = otool->findIdentifiers('*data_space/volume', /visualizations)
ovol = otool->getByIdentifier(vol_id)

```

```

; this bit sets up an image plane
ops_id = otool->findIdentifiers('*imageplane*', /operations)

```

```

result = otool->doAction(ops_id)
planeId = otool->findIdentifiers('*image plane*', /vis)
oimplane = otool->getByIdentifier(planeId)
oimplane->setProperty, orientation=2

```

```

; now grab the data for the image plane
oSelVis = oTool->GetSelectedItems(count=nSelVis)
oData = oSelVis->GetParameter('IMAGEPIXELS')
strToolID = IDLitSys_CreateTool('Image Tool', /view_next,
initial_data=oData, $
                    visualization_type='IMAGE')
oNewTool = oTool->GetByIdentifier(strToolID)
oCreateVis = oNewTool->GetService("CREATE_VISUALIZATION")
oParmSet = OBJ_NEW('IDLitParameterSet', $
                    DESCRIPTION='Image Plane', NAME='Image Plane',$
                    TYPE='Image', ICON='image')

```

```

; hook up the plane data
oParmSet->Add, oData, PARAMETER_NAME='IMAGEPIXELS', /PRESERVE_LOCATION
oCommandSet = oCreateVis->CreateVisualization(oParmSet, 'IMAGE')

```

Mike

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