
Subject: Re: programming with itools

Posted by [Michael Galloy](#) on Fri, 26 Jun 2009 18:16:47 GMT

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mgalloy wrote:

> 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)
> planelid = otool->findIdentifiers('*image plane*', /vis)
> oimplane = otool->getByIdentifier(planelid)
> 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

```

And a bit more cleaned up...

```

ivolume, /test, view_grid=[2, 1]
toolId = itGetCurrent(tool=tool)

```

```
; this bit sets up an image plane
oplImagePlaneId = tool->findIdentifiers('*imageplane*', /operations)
result = tool->doAction(oplImagePlaneId)

planeId = tool->findIdentifiers('*image plane*', /visualizations)
result = tool->do SetProperty(planeId, 'orientation', 2)

; now grab the data for the image plane
selectedItems = tool->getSelectedItems(count=nSelectedItems)
data = selectedItems->getParameter('IMAGEPIXELS')
toolId = IDLitSys_CreateTool('Image Tool', /view_next, initial_data=data, $
    visualization_type='IMAGE')
```

Mike

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