
Subject: Predefined iTool Visualization in existing iTool

Posted by [kidpix](#) on Wed, 17 Mar 2010 11:14:12 GMT

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Hi,

I'm using IDL 7.0.3 and I'm fairly new to objects.

My basic problem was put a series of spacecraft Field Of View (FOV), essentially a group of polygons, on a projected map. With direct graphic it is really simple, but each change requires to completely draw the windows, so I started playing with iTools.

My problem could be summarized as:

How can I add one of the predefined iTool visualization in an existing iTool, having all properties in the iTool visualization browser?

I started from basics and tried first to put a IDLgrPolygon encapsulated in a IDLitVisPolygon on a iPlot

```
iplot,indgen(10),indgen(10)
X = [4,6,6,4]
Y = [2,2,5,5]
;-- basic IDLgrPolygon
polygon = OBJ_NEW('IDLgrPolygon', X,Y,COLOR=[200,200,200])
;-- IDLitVisualization:Polygon
oPolygon = OBJ_NEW('IDLitVisPolygon', /REGISTER_PROPERTIES)
oPolygon -> IDLitVisPolygon::Add, polygon
;- add the visualization to the current iTool
oSys = _IDLitSys_GetSystem()
oTool = oSys -> _GetCurrentTool()
oTool -> Add, oPolygon, /AGGREGATE
```

It works in visualizing the polygon, but I cannot modify any property, like color, and it is visualized always, no matter what data range I'm currently visualizing in the iPlot window.

The iTool Programming Guide states on pp114 "The IDLitVisualization class automatically handles selection, selection visuals, data ranges, and notification of data changes", so I guess I'm messing smt. with the visualization creation or properties registration.

I tried using a IDLgrROI encapsulated in a IDLitVisROI, but no change.

```
iplot,indgen(10),indgen(10)
X = [4,6,6,4]
Y = [2,2,5,5]
;-- object graphics ROI > superclass IDLanROI : analysis domain
object
grROI = OBJ_NEW( 'IDLgrROI',X,Y )
;-- ROI visualization object IDLitVisRoi
```

```
visoROI = OBJ_NEW('IDLitVisROI', /REGISTER_PROPERTIES)
visoROI -> IDLitVisRoi::Add, grROI, /AGGREGATE
;- add the visualization to the current iTool
oSys = _IDLitSys_GetSystem()
oTool = oSys -> _GetCurrentTool()
oTool -> Add, visoROI, /AGGREGATE
```

Thanks all,
Mario.

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