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Subject: Re: Is a Class diagram of catalyst available ?  
Posted by [Jie Zhou](#) on Thu, 24 Oct 2013 18:23:33 GMT  
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On Thursday, October 17, 2013 1:47:59 PM UTC+2, David Fanning wrote:

> Jie Zhou writes:

>

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>

>> Lately, I begin to try catalyst library. I find the objects make widget graphic more simple. But there are so many different object define code (CLASS). Maybe a Class diagram can make things more convenient.

>

>

>

> There is no class diagram available. There is a Document method built

>

> into every object created in the library. If called on the top-level

>

> base object, it will produce HTML documentation of all of the objects

>

> used in the application. This is how the HTML documentation in the docs

>

> directory of the Catalyst Library were created.

>

>

>

> There are many objects, but the object hierarchy is, by virtue of the

>

> way IDL implements objects, pretty shallow. In the case of widgets, most

>

> common widget functionality (i.e., functionality belong to all widgets)

>

> is built into the WidgetAtom object. Then, the specifics of each type of

>

> object is built into each individual object (e.g., ListWidget,

>

> TextWidget, etc.). Each widget object also inherits the CatAtom object,

>

> which is the fundamental object \*all\* objects inherit. This has all the

>

> communication infrastructure for the Catalyst Library built into it.

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>

> Cheers,

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>  
> David  
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> --  
>  
> David Fanning, Ph.D.  
>  
> Fanning Software Consulting, Inc.  
>  
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>  
>  
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Here I list a class structure of CATALYST library (it's what i mean the class diagram):

IDL\_CONTAINER  
CATCONTAINER  
(IDLitComponent)  
CATATOM  
CATCOLORS  
COLORTOOL  
CATLAYER  
IMAGECONTAINER  
CatToolList  
SELECTINTERACTION  
IMGAXES  
MAP\_GRID  
MAP\_OUTLINE  
MAP\_PLOTS  
MAP\_VECTOR  
CATOBJECTVIEW  
CATSURFACE  
WIDGETATOM  
LABELWIDGET  
STATUSBAR  
buttonWidget  
MENUBARWIDGET  
PROPERTY SHEETWIDGET  
sliderWidget  
TABWIDGET  
TextWidget  
TREETWIDGET  
DrawWidget  
ODrawWidget  
SelectableDrawWidget

BASEWIDGET  
CONTEXTMENUBASE  
COMBOBOXWIDGET  
CT\_STRETCH  
CW\_HISTOSTRETCH  
DrawButtonWidget  
DROPLISTWIDGET  
FIELDWIDGET  
IMAGESTRIP  
LISTWIDGET  
SPINNER  
CatControlPanel  
TopLevelBase  
CatGraphicsWindow  
PixmapWidget  
PROPERTYPANEL  
VIEWCONTENTS  
CATDATAATOM  
SELECTABLEOBJECT  
ANGLETOOL  
BOX  
CAT\_ARROW  
CAT\_ELLIPSE  
CAT\_POLYGON  
CATCOLORBAR  
RULER  
SELECTABLEGROUP  
TAPEMEASURE  
TEXTLINE  
CatImage  
SCALEIMAGE  
CATIMAGE2D  
CatImageData  
CATTRUECOLORIMAGE  
ImageFrame  
IMAGESTACK  
CATTOOL  
CATGRAPHICSCMDTOOL  
CATIPTOOL  
INTERACTION  
RUBBERBANDBOX  
MOVEABLEBOX  
CONTRASTBOX  
ELLIPSE\_ROI  
FREEHAND\_ROI  
POLYGON\_ROI  
MEASUREINTERACTION  
ANNOTATEINTERACTION

CatList  
CatListValue  
cat\_trackball

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