

---

Subject: Re: Is a Class diagram of catalyst available ?  
Posted by [Jie Zhou](#) on Mon, 03 Mar 2014 15:21:10 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Thursday, October 24, 2013 8:23:33 PM UTC+2, Jie Zhou wrote:

> On Thursday, October 17, 2013 1:47:59 PM UTC+2, David Fanning wrote:

>  
>> Jie Zhou writes:

>  
>>  
>  
>>  
>  
>>  
>  
>>

>>> 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.

>  
>>  
>  
>>  
>  
>>



```
>
>>
>
>>
>
>>
>
>>
>
>> --
>
>>
>
>>
>
>> 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
>
> (IDLComponent)
>
> CATATOM
>
> CATCOLORS
>
> COLORTOOL
>
> CATLAYER
>
> IMAGECONTAINER
>
> CatToolList
```

>  
> SELECTINTERACTION  
>  
> IMGAXES  
>  
> MAP\_GRID  
>  
> MAP\_OUTLINE  
>  
> MAP\_PLOTS  
>  
> MAP\_VECTOR  
>  
> CATOBJECTVIEW  
>  
> CATSURFACE  
>  
> WIDGETATOM  
>  
> LABELWIDGET  
>  
> STATUSBAR  
>  
> buttonWidget  
>  
> MENUBARWIDGET  
>  
> PROPERTIESHEETWIDGET  
>  
> sliderWidget  
>  
> TABWIDGET  
>  
> TextWidget  
>  
> TREEWIDGET  
>  
> 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

I miss two objects: CATCOORD and MAPCOORD.

The updated one should be:

```
IDL_CONTAINER
    CATCONTAINER
        (IDLitComponent)
    CATATOM
        CATCOLORS
        COLORTOOL
        CATTAYER
        IMAGECONTAINER
        CatToolList
        SELECTINTERACTION
        IMGAXES

CATCOORD
MAPCOORD
    MAP_GRID
    MAP_OUTLINE
    MAP_PLOTS
    MAP_VECTOR
    CATOBJECTVIEW
        CATSURFACE
    WIDGETATOM
        LABELWIDGET
        STATUSBAR
        buttonWidget
        MENUBARWIDGET
        PROPERTIESHEETWIDGET
        sliderWidget
        TABWIDGET
        TextWidget
        TREEWIDGET
        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

---