

FESTIVAL_VISU_ELEMENT OBJECT

1/ DESCRIPTION

The FESTIVAL_VISU_ELEMENT object is the object expected in input of FESTIVAL_VISU in order to visualize images and polygons. No GUI is associated to this object.

This object will be created by the DATA_ENGINE in order to :

- visualize any IDLgrImage contained in a FESTIVAL_DATA : the polygon vertices coordinates will allow to define the position of the image in the FESTIVAL_VISU GUI,
- visualize any other IDLgrPolygon in a FESTIVAL_VISU GUI.

2/ SUPERCLASSES

This object inherits the IDLgrPolygon object.

3/ PROPERTIES

All properties if the IDLgrPolygon object, and in particular :

- **_DATA : _X, _Y, _Z** : coordinates of the polygon vertex data (in FESTIVAL, they are expressed in the projected plane and $X=U$, $Y=V$ and $Z=0$. In the case of FESTIVAL_VISU_ELEMENT representing an image, the pUVRRange property of the FESTIVAL_DATA will be used here.
- **_HIDE** : flag indicating if the polygon has to be draw or not
- **_LINESTYLE** : value that will allow to know if the corresponding image is selected by the user
- **_TEXTURE_MAP** : An object reference to an IDLgrImage object to be texture mapped onto the polygon. In the case of FESTIVAL_VISU_ELEMENT representing an image, the oProjectedImage property of the FESTIVAL_DATA will be used here.
- **_TEXTURE_COORD** : A 2 by n array containing the texture map coordinates, where n is the number of polygon vertices. This property can be used to apply a mask on the image, in which case the coordinates value of pProjectedUserDefinedMaskCoord will be used.

A few additional properties are available in a FESTIVAL_VISU_ELEMENT :

- **_FestivalDataRef** : reference to the FESTIVAL_DATA object associated to the element (used to know the additional information to be displayed in the FESTIVAL_VISU GUI),
- **_SearchResultList** : array of FESTIVAL_SEARCH_RESULT that correspond the the same instrument and that will be proposed in the contextual menu.
- **_DifferenceTime** : float value. If the image corresponds to the difference of 2 FESTIVAL_DATA, this variable is set to the time delay between the 2 images used in the difference. Otherwise, it is set

to 0.

- **in_pixel_size** : integer array [X_pixel_nb, Y_pixel_nb] defining the number of pixel of the image along the X and Y directions. Set to [0,0] in case the polygon has no associated image.

4/ METHODS

4.1/ FESTIVAL_VISU_ELEMENT::INIT

Syntax :

Result = Obj->[FESTIVAL_VISU_ELEMENT::]Init (All parameters used by a IDLgrPolygon, FESTIVAL_DATA_REFERENCE = FestivalDataRef, SEARCH_RESULT_LIST=SearchResultList, DIFFERENCE_TIME=Difference_Time)

Description :

The FESTIVAL_VISU_ELEMENT::INIT function method constructs a FESTIVAL_VISU_ELEMENT object.

Return Value :

The FESTIVAL_VISU_ELEMENT::INIT function method returns 1 if initialization was successful, or 0 otherwise.

Arguments :

Keywords :

FESTIVAL_DATA_REFERENCE

SEARCH_RESULT_LIST

DIFFERENCE_TIME

4.2/ FESTIVAL_VISU_ELEMENT::GETPROPERTY

Syntax :

Result = Obj>[FESTIVAL_VISU_ELEMENT::]GetProperty()

Description :

The FESTIVAL_VISU_ELEMENT::GETPROPERTY procedure method retrieves the value of a property for the FESTIVAL_VISU_ELEMENT object.

Arguments :

None

Keywords :

All keywords of an IDLgrPolygon plus :

FESTIVAL_DATA_REFERENCE

SEARCH_RESULT_LIST

DIFFERENCE_TIME

4.3/ FESTIVAL_VISU_ELEMENT::CLEANUP

Syntax :

OBJ_DESTROY, Obj

or

Obj->[FESTIVAL_VISU_ELEMENT::]Cleanup (In a lifecycle method only.)

Description :

The FESTIVAL_VISU_ELEMENT::CLEANUP procedure method performs all cleanup on the object.

Arguments :

None

Keywords :

None