

FESTIVAL SELECTION GUI OBJECT AND ASSOCIATED USER PARAMETERS GUI OBJECTS

1/ FESTIVAL_SELECTION_GUI OBJECT

1.1/ DESCRIPTION

This object embeds the main GUI of the FESTIVAL application (cf. STB).

It is responsible for managing the following user application parameters :

- Image masking parameters (cf. “Image masking wizard” in URD).
- Images display order parameters (cf. “Display order wizard” in URD).
- Image projection/coordinates parameters (cf. “Projection/coordinates wizard” in URD).
- Colour palette parameters (cf. “Colour palette wizard” in URD)..
- Data calibration parameters (cf. “Data calibration wizard” **TBC** in URD)..
- Image filter parameters (cf. “Filter wizard” in URD).
- Image enhancement parameters (cf. “Visualisation enhancement wizard” in URD).

It allows to perform search request in a SOHO/STEREO database, using date/instrument/wave/filter parameter, or to get the latest results per instrument (cf. “Latest images” in URD).

The interest of putting together the data selection GUI in an object is that it facilitates information sharing with the other application components : any parameter change in the data selection GUI is automatically reflected in some object properties.

1.2/ SUPERCLASSES

None

1.3/ PROPERTIES

`_oMaskingGUI` : FESTIVAL_MASKING_GUI object reference to the “Image masking wizard”.

`_oDisplayOrderGUI` : FESTIVAL_DISPLAYORDER_GUI object reference to the “Display order wizard”.

`_oProjCoordGUI` : FESTIVAL_PROJCOORD_GUI object reference to the “Projection/coordinates wizard”.

`_oColourPaletteGUI` : FESTIVAL_COLOUR_GUI object reference to the “Colour palette wizard”.

`_oDataCalibrationGUI` : FESTIVAL_CALIBRATION_GUI object reference to the “Data calibration wizard”.

`_oFilterGUI` : FESTIVAL_FILTER_GUI object reference to the “Filter wizard”.

`_oEnhancementGUI` : FESTIVAL_ENHANCEMENT_GUI object reference to the “Enhancement wizard”.

`_oQuery`: FESTIVAL_QUERY reference object.

`_oSOHOResultContainer` : FESTIVAL_CONTAINER object reference. It contains all the FESTIVAL_SEARCH_RESULT objects for the SOHO probe.

_oSTEREOAResultContainer : FESTIVAL_CONTAINER object reference. It contains all the FESTIVAL_SEARCH_RESULT objects for the STEREOA probe.

_oSTEREOBResultContainer : FESTIVAL_CONTAINER object reference. It contains all the FESTIVAL_SEARCH_RESULT objects for the STEREOB probe.

_oSOHOFestivalVisualisationGUI : object reference to a FESTIVAL_VISUALISATION_GUI object.

_oSTEREOAFestivalVisualisationGUI : object reference to a FESTIVAL_VISUALISATION_GUI object.

_oSTEREOBFestivalVisualisationGUI : object reference to a FESTIVAL_VISUALISATION_GUI object.

1.3/ METHODS

1.3.1/ FESTIVAL_SELECTION_GUI::INIT

Syntax :

Result = Obj->[FESTIVAL_SELECTION_GUI::]Init ()

Description :

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

Return Value :

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

Arguments :

None

Keywords :

None

1.3.2/ FESTIVAL_SELECTION_GUI::GETPROPERTY

Syntax :

Result =

Obj>[FESTIVAL_SELECTION_GUI::]GetProperty([,SOHO_SEARCH_CRITERIA=sohoSearchCriteria][,STEREOA_SEARCH_CRITERIA=stereoASearchCriteria][,STEREOB_SEARCH_CRITERIA=stereoBSearchCriteria][,SYNCHRO_DATES=synchroDates][SYNCHRO_INSTRUMENTS=synchroInstruments][,MASKING=masking][,DISPLAY_ORDER=displayOrder][,PROJ_COORD=projCoord][COLOUR=colour][,DATA_CALIB=dataCalib][FILTER=filter][,ENHANCEMENT=enhancement][,QUERY_OBJECT=queryObject][,SOHO_RESULT_CONTAINER=sohoResultContainer][STEREOA_RESULT_CONTAINER=stereoAResultContainer][,STEREOB_RESULT_CONTAINER=stereoBResultContainer][,SOHO_SELECTION=sohoSelection][,STEREOA_SELECTION=stereoASelection][,STEREOB_SELECTION=stereoBSelection])

Description :

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

Arguments :

None

Keywords :**SOHO_SEARCH_CRITERIA**

Returns a FESTIVAL_SOHO_SEARCH_STRUCTURE (cf. FESTIVAL_DATA_TYPES.odt) describing the SOHO search criteria.

STEREOA_SEARCH_CRITERIA

Returns a FESTIVAL_STEREO_SEARCH_STRUCTURE (cf. FESTIVAL_DATA_TYPES.odt) describing the SOHO search criteria.

STEREOB_SEARCH_CRITERIA

Returns a FESTIVAL_STEREO_SEARCH_STRUCTURE (cf. FESTIVAL_DATA_TYPES.odt) describing the SOHO search criteria.

SYNCHRO_DATES

Returns a byte value (0B or 1B) indicating whether dates are synchronized for STEREO A and STEREO B.

SYNCHRO_INSTRUMENTS

Returns a byte value (0B or 1B) indicating whether instruments are synchronized for STEREO A and STEREO B.

MASKING

Returns a FESTIVAL_MASKING_GUI object reference to the “Image masking wizard”.

DISPLAY_ORDER

Returns a FESTIVAL_DISPLAYORDER_GUI object reference to the “Display order wizard”.

PROJ_COORD

Returns a FESTIVAL_PROJCOOR_GUI object reference to the “Projection/coordinates wizard”.

COLOUR

Returns a FESTIVAL_COLOUR_GUI object reference to the “Colour palette wizard”.

DATA_CALIB

Returns a FESTIVAL_CALIBRATION_GUI object reference to the “Data calibration wizard”.

FILTER

Returns a FESTIVAL_FILTER_GUI object reference to the “Filter wizard”.

ENHANCEMENT

Returns a FESTIVAL_ENHANCEMENT_GUI object reference to the “Enhancement wizard”.

QUERY_OBJECT

Returns an object reference to _oQuery.

SOHO_RESULT_CONTAINER

Returns an object reference to _oSOHOResultContainer.

STEREOA_RESULT_CONTAINER

Returns an object reference to `_oSTEREOAResultContainer`.

STEREOB_RESULT_CONTAINER

Returns an object reference to `_oSTEREOBResultContainer`.

SOHO_SELECTION

Returns in an integer array the current selection in the SOHO tab table widget.

STEREOA_SELECTION

Returns in an integer array the current selection in the STEREOA tab table widget.

STEREOB_SELECTION

Returns in an integer array the current selection in the STEREOB tab table widget.

1.3.3/ FESTIVAL_SELECTION_GUI::SETPROPERTY

Syntax :

Result =

```
Obj>[FESTIVAL_SELECTION_GUI::]SetProperty([,SOHO_VISUALISATION_GUI=sohoVisualisationGUI][,STEREOA_VISUALISATION_GUI=stereoAVisualisationGUI][,STEREOB_VISUALISATION_GUI=stereoBVisualisationGUI][,SOHO_SELECTION=sohoSelection][,STEREOA_SELECTION=stereoASelection][,STEREOB_SELECTION=stereoBSelection])
```

Description :

The FESTIVAL_SELECTION_GUI::SETPROPERTY procedure method sets the value of a property for the FESTIVAL_SELECTION_GUI object.

Arguments :

None

Keywords :

SOHO_VISUALISATION_GUI

Set this keyword to a valid FESTIVAL_VISUALISATION_GUI object reference. The object reference is stored in the `_oSOHOFestivalVisualisationGUI` property.

STEREOA_VISUALISATION_GUI

Set this keyword to a valid FESTIVAL_VISUALISATION_GUI object reference. The object reference is stored in the `_oSTEREOAFestivalVisualisationGUI` property.

STEREOB_VISUALISATION_GUI

Set this keyword to a valid FESTIVAL_VISUALISATION_GUI object reference. The object reference is stored in the `_oSTEREOBFestivalVisualisationGUI` property.

SOHO_SELECTION

Set this keyword to an integer array giving the current selection in the SOHO tab table widget.

STEREOA_SELECTION

Set this keyword to an integer array giving the current selection in the STEREOA tab table widget.

STEREOB_SELECTION

Set this keyword to an integer array giving the current selection in the STEREOB tab table widget.

1.3.4/ FESTIVAL_SELECTION_GUI::SEARCH

Syntax :

Result = Obj->[FESTIVAL_SELECTION_GUI::]Search ([,LATEST_IMAGES=latestImages)

Description :

This method is called when the user uses one of the “SEARCH” buttons or the “LATEST IMAGES” button. Depending on which SEARCH button was used (SOHO ? STEREO A ? STEREO B ?), the `_oQuery` object (cf. FESTIVAL_QUERY_ARCHI.odt) is parametrized in order to perform the search. The parametrization is performed using the FESTIVAL_SELECTION_GUI::GETPROPERTY procedure method plus the appropriate keyword(s) : SOHO_SEARCH_CRITERIA, STEREOA_SEARCH_CRITERIA, STEREOB_SEARCH_CRITERIA.

Return Value :

The FESTIVAL_SELECTION_GUI::SEARCH function method returns an object array containing FESTIVAL_SEARCH_RESULT objects.

Arguments :

None

Keywords :

LATEST_IMAGES

Set this keyword in order to specify that the search is performed whatever the instruments, filter/polar and wave parameters for the last 2 days.

1.3.5/ FESTIVAL_SELECTION_GUI::HIGHLIGHT

Syntax :

Result = Obj->[FESTIVAL_SELECTION_GUI::]Highlight (array)

Description :

The FESTIVAL_SELECTION_GUI::HIGHLIGHT procedure method highlights some lines in the respective table widgets associated to each probe.

Arguments :

Array

An array of FESTIVAL_SEARCH_RESULT objects to be highlighted.

Keywords :

1.3.6/ FESTIVAL_SELECTION_GUI::CLEAR

Syntax :

Result = Obj->[FESTIVAL_SELECTION_GUI::]Clear ([,SOHO=soho][,STEREOA=stereoA][,STEREOB=stereoB])

Description :

The FESTIVAL_SELECTION_GUI::CLEAR procedure method deselects any highlighted line in a probe tab.

Arguments :

None

Keywords :

SOHO

Set this keyword to indicate that the SOHO tab is concerned by the highlighting.

STEREOA

Set this keyword to indicate that the STEREOA tab is concerned by the highlighting.

STEREOB

Set this keyword to indicate that the STEREOB tab is concerned by the highlighting.

1.3.7/

FESTIVAL_SELECTION_GUI::GETLISTOFLATESTIMAGES([,LAST_IMAGE_DATE=last_image_date][,PROBE_IS_ACTIVE=probe_is_active][,DATA_FOR_INSTRUMENT_IS_AVAILABLE=data_for_instrument_is_available]

Syntax

Result = Obj->[FESTIVAL_SELECTION_GUI::]GetListOfLatestImages()

Description :

The FESTIVAL_SELECTION_GUI::GETLISTOFLATESTIMAGES procedure method deselects any highlighted line in a probe tab.

Arguments :

None

Keywords :

LAST_IMAGE_DATE

Returns last image date whatever the probe.

PROBE_IS_ACTIVE

A 3 elements array telling whether the FESTIVAL_PROBE_RESULTS object contains data.

DATA_FOR_INSTRUMENT_IS_AVAILABLE

A 3*5 integer array indicating whether or not an instrument contains data.

1.3.8/ FESTIVAL_SELECTION_GUI::CLEANUP**Syntax :**

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None

2/ FESTIVAL_MASKING_GUI OBJECT

2.1/ DESCRIPTION

This object embeds the “Image masking wizard” GUI, and holds the user parameters.

2.2/ SUPERCLASSES

None

2.3/ PROPERTIES

2.4/ METHODS

2.4.1/ FESTIVAL_MASKING_GUI::INIT

Syntax :

Result = Obj->[FESTIVAL_MASKING_GUI::]Init ()

Description :

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

Return Value :

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

Arguments :

None

Keywords :

None

2.4.2/ FESTIVAL_MASKING_GUI::GETPROPERTY

Syntax :

Result =

```
Obj>[FESTIVAL_MASKING_GUI::]GetProperty([,STEREO_EUVI=stereoEUVI][,STEREO_COR1=stereoCOR1][,STEREO_COR2=stereoCOR2][,STEREO_HI1=stereoHI1][,STEREO_HI2=stereoHI2][,SOHO_EIT=sohoEIT][,SOHO_C1=sohoC1][,SOHO_C2=sohoC2][,SOHO_C3=sohoC3)
```

Description :

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

Arguments :

None

Keywords :

STEREO_EUVI

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EUVI masking parameters.

STEREO_COR1

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR1 masking parameters.

STEREO_COR2

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR2 masking parameters.

STEREO_HI1

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI1 masking parameters.

STEREO_HI2

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI2 masking parameters.

SOHO_EIT

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EIT masking parameters.

SOHO_C1

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C1 masking parameters.

SOHO_C2

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C2 masking parameters.

SOHO_C3

Returns a FESTIVAL_MASKING structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C3 masking parameters.

2.4.3/ FESTIVAL_MASKING_GUI::CLEANUP

Syntax :

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None

3/ FESTIVAL_DISPLAYORDER_GUI OBJECT

3.1/ DESCRIPTION

This object embeds the “Display order wizard” GUI, and holds the user parameters.

3.2/ SUPERCLASSES

None

3.3/ PROPERTIES

3.4/ METHODS

3.4.1/ FESTIVAL_DISPLAYORDER_GUI::INIT

Syntax :

Result = Obj->[FESTIVAL_DISPLAYORDER_GUI::]Init ()

Description :

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

Return Value :

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

Arguments :

None

Keywords :

None

3.4.2/ FESTIVAL_DISPLAYORDER_GUI::GETPROPERTY

Syntax :

Result =

Obj>[FESTIVAL_DISPLAYORDER_GUI::]GetProperty([,STEREO=stereoOrder][,SOHO=sohoOrder])

Description :

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

Arguments :

None

Keywords :

STEREO

Returns a 5 elements string array giving the STEREO images display order. Element 0 of the array indicates the most background image. Element 4 of the array indicates the most foreground image. Default is ["EUVI", "HI1", "HI2", "COR1", "COR2"].

SOHO

Returns a 4 elements string array giving the SOHO images display order. Element 0 of the array indicates the most background image. Element 4 of the array indicates the most foreground image. Default is ["EIT", "C1", "C2", "C3"].

3.4.3/ FESTIVAL_DISPLAYORDER_GUI::CLEANUP

Syntax :

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None

4/ FESTIVAL_PROJCOORD_GUI OBJECT

4.1/ DESCRIPTION

This object embeds the “Projection/coordinates wizard” GUI, and holds the user parameters.

4.2/ SUPERCLASSES

None

4.3/ PROPERTIES

4.4/ METHODS

4.4.1/ FESTIVAL_PROJCOORD_GUI::INIT

Syntax :

Result = Obj->[FESTIVAL_PROJCOORD_GUI::]Init ()

Description :

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

Return Value :

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

During initialization, 3 StructureMaps are also created (1 per probe) .

Arguments :

None

Keywords :

None

4.4.2/ FESTIVAL_PROJCOORD_GUI::GETPROPERTY

Syntax :

Result =

Obj>[FESTIVAL_PROJCOORD_GUI::]GetProperty([,STEREOA=stereoAProjCoord][,STEREOB=stereoBProjCoord][,SOHO=sohoProjCoord])

Description :

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

Arguments :

None

Keywords :

STEREOA or STEREOB

Returns a FESTIVAL_PROJCOORD_STEREO structure (cf. FESTIVAL_DATA_TYPES.odt) describing the STEREOA or STEREOB projection/coordinates parameters.

SOHO

Returns a FESTIVAL_PROJCOORD_SOHO structure (cf. FESTIVAL_DATA_TYPES.odt) describing the STEREO projection/coordinates parameters.

4.4.3/ FESTIVAL_PROJCOORD_GUI::CLEANUP**Syntax :**

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None

5/ FESTIVAL_COLOUR_GUI OBJECT**5.1/ DESCRIPTION**

This object embeds the “Colour palette wizard” GUI, and holds the user parameters.

5.2/ SUPERCLASSES

None

5.3/ PROPERTIES**5.4/ METHODS****5.4.1/ FESTIVAL_COLOUR_GUI::INIT****Syntax :**

Result = Obj->[FESTIVAL_COLOUR_GUI:]Init ()

Description :

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

Return Value :

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

Arguments :

None

Keywords :

None

5.4.2/ FESTIVAL_COLOUR_GUI::GETPROPERTY

Syntax :

Result =

```
Obj>[FESTIVAL_COLOUR_GUI::]GetProperty([,STEREO_EUVI=stereoEUVI][,STEREO_COR1=stereoCOR1][,STEREO_COR2=stereoCOR2][,STEREO_HI1=stereoHI1][,STEREO_HI2=stereoHI2][,SOHO_EIT=sohoEIT][,SOHO_C1=sohoC1][,SOHO_C2=sohoC2][,SOHO_C3=sohoC3)
```

Description :

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

Arguments :

None

Keywords :

STEREO_EUVI

Returns a IDLGRPALLETTTE object.

STEREO_COR1

Returns a IDLGRPALLETTTE object.

STEREO_COR2

Returns a IDLGRPALLETTTE object.

STEREO_HI1

Returns a IDLGRPALLETTTE object.

STEREO_HI2

Returns a IDLGRPALLETTTE object.

SOHO_EIT

Returns a IDLGRPALLETTTE object.

SOHO_C1

Returns a IDLGRPALLETTTE object.

SOHO_C2

Returns a IDLGRPALETTE object.

SOHO_C3

Returns a IDLGRPALETTE object.

5.4.3/ FESTIVAL_COLOUR_GUI::CLEANUP

Syntax :

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None

6/ FESTIVAL_CALIBRATION_GUI OBJECT

6.1/ DESCRIPTION

This object embeds the “Calibration wizard” GUI, and holds the user parameters.

6.2/ SUPERCLASSES

None

6.3/ PROPERTIES

Calibration OFF=0, ON=1 or 2 depending on the model used for calibration

_calibration_EIT : 0,

_calibration_C1 : 0,

_calibration_C2 : 0,

_calibration_C3 : 0,

_calibration_EUVI : 0,

_calibration_COR1 : 0,

_calibration_COR2 : 0,

_calibration_HI1 : 0,

_calibration_HI2 : 0

6.4/ METHODS

6.4.1/ FESTIVAL_CALIBRATION_GUI::INIT

Syntax :

Result = Obj->[FESTIVAL_CALIBRATION_GUI::]Init ()

Description :

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

Return Value :

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

Arguments :

None

Keywords :

None

6.4.2/ FESTIVAL_CALIBRATION_GUI::GETPROPERTY

Syntax :

Result =

Obj->[FESTIVAL_CALIBRATION_GUI::]GetProperty([,STEREO_EUVI=stereoEUVI][,STEREO_COR1=stereoCOR1][,STEREO_COR2=stereoCOR2][,STEREO_HI1=stereoHI1][,STEREO_HI2=stereoHI2][,SOHO_EIT=sohoEIT][,SOHO_C1=sohoC1][,SOHO_C2=sohoC2][,SOHO_C3=sohoC3])

Description :

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

Arguments :

None

Keywords :

STEREO_EUVI

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EUVI calibration algorithm used.

STEREO_COR1

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR1 calibration algorithm used.

STEREO_COR2

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR2 calibration algorithm used.

STEREO_HI1

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI1 calibration algorithm used.

STEREO_HI2

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI2 calibration algorithm used.

SOHO_EIT

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EIT calibration algorithm used.

SOHO_C1

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C1 calibration algorithm used.

SOHO_C2

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C2 calibration algorithm used.

SOHO_C3

Returns a FESTIVAL_CALIBRATION structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C3 calibration algorithm used.

6.4.3/ FESTIVAL_CALIBRATION_GUI::CLEANUP

Syntax :

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None

7/ FESTIVAL_FILTER_GUI OBJECT

7.1/ DESCRIPTION

This object embeds the “Filter wizard” GUI, and holds the user parameters.

7.2/ SUPERCLASSES

None

7.3/ PROPERTIES

```
_filterON_EIT : 0B,  
_filteringSequence_EIT : PTR_NEW(),  
_filterON_C1 : 0B,  
_filteringSequence_C1 : PTR_NEW(),  
_filterON_C2 : 0B,  
_filteringSequence_C2 : PTR_NEW(),  
_filterON_C3 : 0B,  
_filteringSequence_C3 : PTR_NEW(),  
_filterON_EUVI : 0B,  
_filteringSequence_EUVI : PTR_NEW(),  
_filterON_COR1 : 0B,  
_filteringSequence_COR1 : PTR_NEW(),  
_filterON_COR2 : 0B,  
_filteringSequence_COR2 : PTR_NEW(),  
_filterON_HI1 : 0B,  
_filteringSequence_HI1 : PTR_NEW(),  
_filterON_HI2 : 0B,  
_filteringSequence_HI2 : PTR_NEW()
```

7.4/ METHODS

7.4.1/ FESTIVAL_FILTER_GUI::INIT

Syntax :

Result = Obj->[FESTIVAL_FILTER_GUI::]Init ()

Description :

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

Return Value :

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

Arguments :

None

Keywords :

None

7.4.2/ FESTIVAL_FILTER_GUI::GETPROPERTY

Syntax :

Result =

Obj>[FESTIVAL_FILTER_GUI::]GetProperty([,STEREO_EUVI=stereoEUVI][,STEREO_COR1=stereoCOR1][,STEREO_COR2=stereoCOR2][,STEREO_HI1=stereoHI1][,STEREO_HI2=stereoHI2][,SOHO_EIT=sohoEIT][,SOHO_C1=sohoC1][,SOHO_C2=sohoC2][,SOHO_C3=sohoC3])

Description :

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

Arguments :

None

Keywords :

STEREO_EUVI

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EUVI filtering sequence to be used.

STEREO_COR1

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR1 filtering sequence to be used.

STEREO_COR2

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR2 filtering sequence to be used.

STEREO_HI1

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI1 filtering sequence to be used.

STEREO_HI2

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI2

filtering sequence to be used.

SOHO_EIT

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EIT filtering sequence to be used.

SOHO_C1

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C1 filtering sequence to be used.

SOHO_C2

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C2 filtering sequence to be used.

SOHO_C3

Returns a FESTIVAL_FILTER structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C3 filtering sequence to be used.

7.4.3/ FESTIVAL_FILTER_GUI::CLEANUP

Syntax :

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None

8/ FESTIVAL_ENHANCEMENT_GUI OBJECT

8.1/ DESCRIPTION

This object embeds the “Visualization enhancement wizard” GUI, and holds the user parameters.

8.2/ SUPERCLASSES

None

8.3/ PROPERTIES

8.4/ METHODS

8.4.1/ FESTIVAL_ENHANCEMENT_GUI::INIT

Syntax :

Result = Obj->[FESTIVAL_ENHANCEMENT_GUI::]Init ()

Description :

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

Return Value :

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

Arguments :

None

Keywords :

None

8.4.2/ FESTIVAL_ENHANCEMENT_GUI::GETPROPERTY

Syntax :

Result =
Obj->[FESTIVAL_FILTER_GUI::]GetProperty([,STEREO_EUVI=stereoEUVI][,STEREO_COR1=stereoCOR1][,STEREO_COR2=stereoCOR2][,STEREO_HI1=stereoHI1][,STEREO_HI2=stereoHI2][,SOHO_EIT=sohoEIT][,SOHO_C1=sohoC1][,SOHO_C2=sohoC2][,SOHO_C3=sohoC3)

Description :

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

Arguments :

None

Keywords :

STEREO_EUVI

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EUVI enhancement algorithm to be used.

STEREO_COR1

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR1 enhancement algorithm to be used.

STEREO_COR2

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the COR2 enhancement algorithm to be used.

STEREO_HI1

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI1 enhancement algorithm to be used.

STEREO_HI2

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the HI2 enhancement algorithm to be used.

SOHO_EIT

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the EIT enhancement algorithm to be used.

SOHO_C1

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C1 enhancement algorithm to be used.

SOHO_C2

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C2 enhancement algorithm to be used.

SOHO_C3

Returns a FESTIVAL_ENHANCEMENT structure (cf. FESTIVAL_DATA_TYPES.odt) describing the C3 enhancement algorithm to be used.

8.4.3/ FESTIVAL_ENHANCEMENT_GUI::CLEANUP

Syntax :

OBJ_DESTROY, Obj

or

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

Description :

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

Arguments :

None

Keywords :

None