CHAPTER 14

Graph Output Control

Overview

The Graph Output Control displays graphics output stored in GRSEG catalog entries. This class enables you to configure output as push buttons and define hotspot areas that can perform actions when they are selected.

Ancestors:

```
sashelp.fsp.Object.class
  sashelp.fsp.Widget.class
```

Class:

```
sashelp.classes.Graphoutput_c.class
```

Attributes

Public attributes specified for the Graph Output Control class are described here. See sashelp.fsp.Widget.class for inherited attributes.

Dictionary

defaultAttribute

Returns or sets the attribute name used for the object's default attribute

Type: Character

Valid Values: \sashelp.classes.defaultattributevalues.scl
description

Returns the short description for the object

Type: Character
Valid Values:

dragInfo

Returns or sets the information that is transferred from the control when a drag operation occurs

Type: List
Valid Values:
Editor: SASHELP.FSP.DRAGDROPINFOEDITOR.FRAME

dropInfo

Returns or sets the information that defines the data representations that can be dropped on the control

Type: List
Valid Values:
Editor: SASHELP.FSP.DRAGDROPINFOEDITOR.FRAME

graph

Returns or sets the name of the GRSEG entry to be displayed
magnify

Returns or sets the percentage used to scale the graph based on the graph’s natural size. Only valid when the graph is not resized to fit the containing region

Type: Numeric
Valid Values:

resizeToFit

Returns or sets whether to resize the graph output both horizontally and vertically to fit the shape of the containing region

Type: Character
Valid Values: Yes, No

scrollbars

Returns or sets whether vertical and horizontal scrollbars are displayed

Type: Character
Valid Values: Yes, No

Methods

Methods specified for the Graph Output Control class are described here. See sashelp.fsp.Widget.class for inherited methods.
**_addHotspot_**

Adds a segment hotspot with the specified attributes to the graphics output

---

**Syntax**

```c
objectName_addHotspot( hotspotID );
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hotspotID</td>
<td>List</td>
<td>Update</td>
<td>specifies the identifier of a list containing the hotspot attribute information</td>
</tr>
</tbody>
</table>

---

**_clear_**

Removes the GRSEG entry that is displayed and removes any associated hotspots

---

**Syntax**

```c
objectName_clear( );
```

---

**_deleteHotspot_**

Removes the specified hotspot from the graphics output

---

**Syntax**

```c
objectName_deleteHotspot( hotspotName );
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hotspotName</td>
<td>Character</td>
<td>Input</td>
<td>specifies the name of the hotspot to delete</td>
</tr>
</tbody>
</table>
_edit

Invokes the SAS/GRAPH graphics editor on the GRSEG entry that is displayed

Syntax

objectName_edit( );

_getClickInfo

Internal method

Syntax

return = objectName_getClickInfo( );

_getContort

Returns the setting indicating whether the graphics output is automatically resized to fit the containing region

Syntax

objectName_getContort( resize );

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resize</td>
<td>Character</td>
<td>Output</td>
<td>specifies whether automatic resizing is turned on or off: Y if on, N if off</td>
</tr>
</tbody>
</table>
_getHotspotAttr

Returns the highlighting style of a specified hotspot

Syntax

objectName._getHotspotAttr( hotspotName, fillStyle );

Argument | Type | Use | Description
--- | --- | --- | ---
hotspotName | Character | Input | specifies the name of the hotspot
fillStyle | Numeric | Output | returns the fill style of the highlight: 1 outlines the graph segment, 2 totally replaces the graph segment

_getHotspotColor

Returns the color of a specified hotspot

Syntax

objectName._getHotspotColor( hotspotName, color );

Argument | Type | Use | Description
--- | --- | --- | ---
hotspotName | Character | Input | specifies the name of the hotspot
color | Character | Output | returns the color

_getInfo

Returns descriptive information about the last point selected on the graphics output

Syntax

objectName._getInfo( cli kInfo );
**Graph Output Control**

**_getValue**

Returns the name of the current GRSEG entry

**Syntax**

```
objectName_getValue( name );
objectName_getValue( hotspotName, hotspotID );
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Character</td>
<td>Output</td>
<td>returns the name of the current GRSEG entry displayed</td>
</tr>
<tr>
<td>hotspotName</td>
<td>Character</td>
<td>Input</td>
<td>specifies the name of the segment hotspot</td>
</tr>
<tr>
<td>hotspotID</td>
<td>Numeric</td>
<td>Update</td>
<td>specifies the identifier of a list that when returned contain information about the currently selected hotspot</td>
</tr>
</tbody>
</table>

**_getMagnification**

Returns the magnification factor at which the graphics output is drawn

**Syntax**

```
objectName_getMagnification( magnifyPercentage );
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>magnifyPercentage</td>
<td>Numeric</td>
<td>Output</td>
<td>specifies the percentage by which the graph is magnified</td>
</tr>
</tbody>
</table>


_hideHotspots

Removes highlighting from one or more segment hotspots

Syntax

return = objectName_hideHotspots();

_hscroll

Scrolls graphics output horizontally

Syntax

objectName_hscroll( unit, numUnits );
objectName_hscroll( unit );
objectName_hscroll( );

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>unit</td>
<td>Character</td>
<td>Input</td>
<td>specifies the scrolling unit: MAX, PAGE, HALF, COLUMN</td>
</tr>
<tr>
<td>numUnits</td>
<td>Numeric</td>
<td>Input</td>
<td>specifies the number of units to scroll: &gt;0 scrolls right, &lt;0 scrolls left, default is 1</td>
</tr>
</tbody>
</table>

_setContort

Turns on or off automatic resizing of the graphics output to fit the containing region

Syntax

objectName_setContort( resize );
Graph Output Control

_setHotspotAttr

Sets a fill style to display in a hotspot when it is selected

Syntax

objectName_setHotspotAttr( hotspotName, fillStyle );

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hotspotName</td>
<td>Character</td>
<td>Input</td>
<td>specifies the name of the hotspot</td>
</tr>
<tr>
<td>fillStyle</td>
<td>Numeric</td>
<td>Input</td>
<td>specifies the fill style of the highlight: 1 outlines the graph segment, 2 totally replaces the graph segment</td>
</tr>
</tbody>
</table>
### _setHotspotColor

Sets a color to display in an active hotspot

**Syntax**

```java
objectName_setHotspotColor( hotspotName, color );
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hotspotName</td>
<td>Character</td>
<td>Input</td>
<td>specifies the name of the hotspot</td>
</tr>
<tr>
<td>color</td>
<td>Character</td>
<td>Input</td>
<td>specifies a color</td>
</tr>
</tbody>
</table>

### _setMagnification

Sets the magnification factor with which the graphics output is drawn

**Syntax**

```java
objectName_setMagnification( magnifyPercentage );
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>magnifyPercentage</td>
<td>Numeric</td>
<td>Input</td>
<td>specifies the percentage by which to magnify the graph. The default is 100 percent.</td>
</tr>
</tbody>
</table>

### _showHotspots

Highlights or unhighlights one or more segment hotspots

**Syntax**

```java
return = objectName_showHotspots( );
```
_vscroll

Scrolls vertically graphics output that is larger than the containing region

Syntax

objectName_vscroll( units );
objectName_vscroll( );
objectName_vscroll( units, numUnits );

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>units</td>
<td>Character</td>
<td>Input</td>
<td>specifies the scrolling amount: MAX, PAGE, HALF, ROW</td>
</tr>
<tr>
<td>numUnits</td>
<td>Numeric</td>
<td>Input</td>
<td>specifies the number of units to scroll: &gt;0 scrolls down, &lt;0 scrolls up</td>
</tr>
</tbody>
</table>

Events

Events specified for the Graph Output Control class are described here. See sashelp.fsp.Widget.class for inherited events.

- graph changed
  - Occurs when the graph attribute is changed
- magnify changed
  - Occurs when the magnify attribute is changed
- objectNameUsage changed
  - Occurs when the objectNameUsage attribute is changed
- resizeToFit changed
  - Occurs when the resizeToFit attribute is changed
- scrollbars changed
  - Occurs when the scrollbars attribute is changed