Overview

The Scroll Bar Control enables you to create horizontal and/or vertical bar objects associated with a scrollable area. The objects include arrows at each end and a movable thumb. The orientation attribute determines whether a scroll bar object is horizontal or vertical.

The thumb (rectangle between two arrows of the scroll bar) both shows a user's current position and can help the user move within a scrollable region. Move the thumb by

- clicking on its arrows
- clicking on either side of it
- dragging it toward one of the arrows

Clicking on either side of the thumb moves one page in the appropriate direction. Clicking on the arrows at the ends of the scroll bar moves the thumb one increment in the appropriate direction.

The maximum value for a scroll bar is visually represented with the thumb at the far right position for a horizontal scroll bar, and with the thumb at the bottom position for a vertical scroll bar.

The minimum value is visually represented on the scroll bar with the thumb at the far left position for a horizontal scroll bar, and with the thumb at the top position for a vertical scroll bar.

Scroll bars allow users to navigate lists, text, or ranges of data values that would otherwise be too large to display.

Ancestors:

sashelp.fsp.Object.class
sashelp.fsp.Widget.class
Using the Scroll Bar Control

**Key properties to set**

- **value** attribute
  
  Specify the position of the thumb within the scroll bar using a numeric value. For example, if the scrollbar is going to be used to denote the days of the week, then the value would be between 1 and 7.

  You can also query or set this attribute using SCL. For example, the following line of SCL code sets the scroll bar value to 3:

  ```scl
  scrollbar1.value = '3';
  ```

  **Note:** The following line of code is also valid since the value attribute is the default attribute:

  ```scl
  scrollbar1 = '3';
  ```

  The numeric value used may be dependent on the values set for the minimum and maximum attributes. See Setting minimum and maximum attributes on page 640 for more details.

- **orientation** attribute

  Specify whether you want the scroll bar oriented horizontally or vertically.

  You can also query or set this attribute using SCL. For example, the following line of SCL code sets the scroll bar position to vertical:

  ```scl
  scrollbar1.orientation = 'vertical';
  ```

  **Note:** The orientation attribute is a build-time attribute, meaning it can only be set at build-time.

**Setting minimum and maximum attributes**

The minimum and maximum attributes control the numeric values associated with a scrollbar. For example, if your scrollbar represents the days of the week that a user can select, then the values would be 1 and 7, respectively.

Keep the following in mind when setting minimum and maximum attribute values:

- the maximum value must always be greater than the minimum value
- minimum and maximum attribute values must be changed using a specific order to avoid errors. If the new maximum value is going to be less than the current
minimum value, then the new minimum value must be set first. If the new maximum value is going to be greater than the current minimum value, then set the new maximum value must be set first.

For example, suppose you want to change the current minimum and maximum attribute values from 100 and 200 to 300 and 400 (respectively). You would have to change the maximum attribute value first. If you attempted to change the minimum value first (from 100 to 300), an error would occur, since the minimum value would be greater than the maximum value.

## Attributes

Public attributes specified for the Scrollbar Control class are described here. See sashelp.classes.Afcontrol.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
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

largeScrollAmount

Returns or sets the amount scrolled when the trough is clicked
Type: Numeric
Valid Values:

maximum

Returns or sets the maximum numeric value
Type: Numeric
Valid Values:

minimum

Returns or sets the minimum numeric value
Scrollbar Control

value

Returns or sets the current scroll value
Type: Numeric

orientation

Returns or sets the orientation of the control
Type: Character
Valid Values: Horizontal, Vertical

scaleOn

Returns or sets whether to use scale visuals
Type: Character
Valid Values: Yes, No

smallScrollAmount

Returns or sets the amount scrolled when the arrow is clicked
Type: Numeric
Valid Values:
Methods

Methods specified for the Scrollbar Control class are described here. See sashelp.classes.Afcontrol.class for inherited methods.

_onPopup

Invoked when the popup event occurs

Syntax

objectName_onPopup( );

_onScroll

Invoked when the scroll event occurs

Syntax

objectName_onScroll( scrollType, value );

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>scrollType</td>
<td>Character</td>
<td>Input</td>
<td>contains the type of scroll that occurred</td>
</tr>
<tr>
<td>value</td>
<td>Numeric</td>
<td>Input</td>
<td>contains the new value</td>
</tr>
</tbody>
</table>

_showPopup

Displays a pop-up menu containing items in a list
### Syntax

```objectName_showPopup( popupItemList, selectedIndex );```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>popupItemList</td>
<td>List</td>
<td>Input</td>
<td>specifies the items to display in the popup</td>
</tr>
<tr>
<td>selectedIndex</td>
<td>Numeric</td>
<td>Update</td>
<td>specifies the index of the item selected from the menu</td>
</tr>
</tbody>
</table>

### Events

Events specified for the Scrollbar Control class are described here. See `sashelp.classes.Afcontrol.class` for inherited events.

- `largeScrollAmount changed`
  - Occurs when the `largeScrollAmount` attribute is changed
- `maximum changed`
  - Occurs when the `maximum` attribute is changed
- `minimum changed`
  - Occurs when the `minimum` attribute is changed
- `orientation changed`
  - Occurs when the `orientation` attribute is changed
- `popup`
  - Occurs on a popup request
- `scaleOn changed`
  - Occurs when the `scaleOn` attribute is changed
- `scroll`
  - Occurs when the control was scrolled
- `smallScrollAmount changed`
  - Occurs when the `smallScrollAmount` attribute is changed
- `value changed`
  - Occurs when the `value` attribute is changed

### Event Handlers

Event handlers specified for the Scrollbar Control class are described here. See `sashelp.classes.Afcontrol.class` for inherited event handlers.
### Event Method Description

<table>
<thead>
<tr>
<th>Event</th>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.popup</td>
<td>_onPopup</td>
<td>Executes when the popup event occurs</td>
</tr>
<tr>
<td>.scroll</td>
<td>_onScroll</td>
<td>Executes when the scroll event occurs</td>
</tr>
</tbody>
</table>