Overview

The Spin Box Control enables users to move through a fixed set of values, such as dates or times. Spin boxes are helpful when users must select from a small set of items, such as the days of the week or the months in the year. The Combo Box Control is more appropriate for larger sets of items.

Ancestors:

- sashelp.fsp.Object.class
- sashelp.fsp.Widget.class
- sashelp.classes.AFControl.class

Class:

sashelp.classes.Spinbox_c.class

Using the Spin Box Control

Key properties to set

dataSource attribute

Specify whether a spin box uses numeric or character values.

You can also query or set this attribute using SCL. For example, the following line of SCL code sets spin box values to ‘character.’
Setting spin box items

You must tell every spin box control what items to display. Use one of the following ways to add items to a spin box control:

- You can set the items attribute in the Properties window. When you click the value cell for the items attribute, the Items window appears where you can enter each of the items you want.
- You can populate the spin box with items from a list model by setting the value of the model attribute in the Properties window to the name of the list model.
- You can also populate the spin box with items from a list model by dragging the model from the Components window onto the spin box in the frame.
- Finally, you can specify the values of the items in the spin box at run time.

Build-time attributes

The following attribute is a build-time attribute, meaning it can only be set at build-time if you choose to use it:
- orientation

Using SCL to specify spin box items

You can specify spin box items using an SCL program.

```scl
spinbox1.dataSource = 'List of Values';

Note: If the dataSource attribute is set to 'List of Values,' you must also set the items attribute.

The following line of SCL code sets spin box values to 'numeric.'
spinbox1.dataSource = 'Range of Integers';

Note: If the dataSource attribute is set to 'Range of Integers' and the items attribute is not set, the maximum and minimum attributes default to 100 and 0 respectively.

Note: This code only works if the dataSource attribute is set to 'List of Values.'
```

Text attribute (default attribute)

Specify the text or number that should display in the text portion of the spin box.

You can also query or set this attribute using SCL. For example, the following line of code sets the text attribute to 'Table.'
spinbox1.text = 'Table';

Note: The following line of code is also valid since the text attribute is the default attribute:
spinbox1 = 'Table';

Note: This code only works if the dataSource attribute is set to 'List of Values.'
For example, the following code creates a list and assigns the list to a spin box control:

```plaintext
petList = makelist(); rc =
insertc(petList, 'Dog', -1); rc = insertc(petList, 'Cat', -1); rc =
insertc(petList, 'Bird', -1); spinbox1.items = petList;
```

You could just as easily fill a spin box control with a list of items that already exists in a model that you have instantiated. The following code assigns color list model items to a spin box control:

```plaintext
spinbox1.items = colorlist1.items;
```

### Attributes

Public attributes specified for the Spin Box Control class are described here. See sashelp.classes.Afcontrol.class for inherited attributes.

### Dictionary

#### backgroundColor

Returns or sets the background color of a control

**Type:** Character

**Valid Values:** (All SAS-supported color values)

**Editor:** sashelp.classes.colorEditor.frame

#### conformSize

Returns or sets whether to size the height of the control based on the font used for the text

**Type:** Character

**Valid Values:** Yes, No

#### cursorPosition

Returns or sets the position of the cursor in the text area of the control
dataSource

Return or sets whether the data cycled through is list based or numeric based

Type: Character
Valid Values: List of Values, Range of Integers

defaultAttribute

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

Type: Character
Valid Values: \sashelp.classes.defaultattributevalues.scl

description

Spin Box Control

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

---

editable

Returns or sets whether the control is editable or read only

Type: Character
Valid Values: Yes, No

---

font

Returns or sets the font applied to the text

Type: List
Valid Values:
Editor: sashelp.classes.fonteditor3.scl

---

format

Returns or sets a SAS format to be applied to the text
increment

Returns or set the amount the value is incremented
Type: Numeric
Valid Values:

informat

Returns or sets a SAS informat to be applied to the text
Type: Character
Valid Values:

inputArea

Returns or sets whether an input area is displayed along with the arrows on the control
Type: Character
Valid Values: Yes, No

items

Returns or sets the spinner values cycled through when dataSource is set to 'list of values'
Spin Box Control

**keyFeedback**

Returns or sets whether the key event is sent with every keystroke

Type: Character
Valid Values: Yes, No

**maximum**

Returns or sets the maximum spinner value when dataSource is set to 'range of integers'

Type: Numeric
Valid Values:

**minimum**

Returns or sets the minimum spinner value when dataSource is set to 'range of integers'

Type: Numeric
Valid Values:

**orientation**

Returns or sets horizontal or vertical orientation
**Type:** Character  
**Valid Values:** Horizontal, Vertical

---

### text

Returns or sets the current value  
**Type:** Numeric  
**Valid Values:**

---

### textColor

Returns or sets the foreground color of the text  
**Type:** Character  
**Valid Values:** (All SAS-supported color values)  
**Editor:** sashelp.classes.colorEditor.frame

---

### textOrientation

Returns or sets how the text in the input area is written  
**Type:** Character  
**Valid Values:** Yes, No

---

### Methods

Methods specified for the Spin Box Control class are described here. See sashelp.classes.Afcontrol.class for inherited methods.
**_onClick_**

Invoked when the click event occurs

---

**Syntax**

objectName._onClick();

---

**_onConformSize_**

Invoked when the conformSize event occurs

---

**Syntax**

objectName._onConformSize();

---

**_onDecrement_**

Invoked when the decrement event occurs

---

**Syntax**

objectName._onDecrement(charValue, numValue);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>charValue</td>
<td>Character</td>
<td>Input</td>
<td>contains the value displayed in the input area as a character string</td>
</tr>
<tr>
<td>numValue</td>
<td>Numeric</td>
<td>Input</td>
<td>contains the item index (if list of values) or amount decremented (if range of integers)</td>
</tr>
</tbody>
</table>
_onDoubleClick

Invoked when the doubleClick event occurs

Syntax

objectName_onDoubleClick();

_onIncrement

Invoked when the increment event occurs

Syntax

objectName_onIncrement( charValue, numValue );

<table>
<thead>
<tr>
<th>Argument</th>
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<th>Use</th>
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</tr>
</thead>
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<tr>
<td>charValue</td>
<td>Character</td>
<td>Input</td>
<td>contains the value displayed in the input area as a character string</td>
</tr>
<tr>
<td>numValue</td>
<td>Numeric</td>
<td>Input</td>
<td>contains the item index (if list of values) or amount incremented (if range of integers)</td>
</tr>
</tbody>
</table>

_onKey

Invoked when the key event occurs

Syntax

objectName_onKey( );
_onPopup

Invoked when the popup event occurs

Syntax

objectName_onPopup( );

_onReturnKey

Invoked when the returnKey event occurs

Syntax

objectName_onReturnKey( );

_onValueChanged

Invoked when the valueChanged event occurs

Syntax

objectName_onValueChanged( );

_showPopup

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

```plaintext
objectName._showPopup( popupItemList, selectedIndex );
```

<table>
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<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 Spin Box Control class are described here. See sashelp.classes.Afcontrol.class for inherited events.

dclick
  Occurs on a click
dconformSize
  Occurs when the control is resized due to conformSize
dconformSize changed
  Occurs when the conformSize attribute is changed
dcursorPosition changed
  Occurs when the cursorPosition attribute is changed
ddataSource changed
  Occurs when the dataSource attribute is changed
ddecrement
  Occurs on a decrement action
ddoubleClick
  Occurs on a double-click
deditable changed
  Occurs when the editable attribute is changed
dfont changed
  Occurs when the font attribute is changed
dformat changed
  Occurs when the format attribute is changed
increment
   Occurs on an increment action
increment changed
   Occurs when the increment attribute is changed
informat changed
   Occurs when the informat attribute is changed
inputArea changed
   Occurs when the inputArea attribute is changed
items changed
   Occurs when the items attribute is changed
key
   Occurs on a keystroke
keyFeedback changed
   Occurs when the keyFeedback 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
returnKey
   Occurs on a carriage Return or Enter
text changed
   Occurs when the text attribute is changed
textColor changed
   Occurs when the textColor attribute is changed
textOrientation changed
   Occurs when the textOrientation attribute is changed
valueChanged
   Occurs when the value of the spinbox is changed through a key event, cut and
   paste, or delete

Event Handlers

Event handlers specified for the Spin Box Control class are described here. See sashelp.classes.Afcontrol.class for inherited event handlers.
<table>
<thead>
<tr>
<th>Event</th>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.click</td>
<td>_onClick</td>
<td>Executes when the click event occurs</td>
</tr>
<tr>
<td>.conformSize</td>
<td>_onConformSize</td>
<td>Executes when the conformSize event occurs</td>
</tr>
<tr>
<td>.decrement</td>
<td>_onDecrement</td>
<td>Executes when the decrement event occurs</td>
</tr>
<tr>
<td>.doubleClick</td>
<td>_onDoubleClick</td>
<td>Executes when the doubleClick event occurs</td>
</tr>
<tr>
<td>.increment</td>
<td>_onIncrement</td>
<td>Executes when the increment event occurs</td>
</tr>
<tr>
<td>.key</td>
<td>_onKey</td>
<td>Executes when the key event occurs</td>
</tr>
<tr>
<td>.popup</td>
<td>_onPopup</td>
<td>Executes when the popup event occurs</td>
</tr>
<tr>
<td>.returnKey</td>
<td>_onReturnKey</td>
<td>Executes when the returnKey event occurs</td>
</tr>
<tr>
<td>.valueChanged</td>
<td>_onValueChanged</td>
<td>Executes when the valueChanged event occurs</td>
</tr>
</tbody>
</table>

**Interfaces**

Interfaces specified for the Spin Box Control class are described here. See `sashelp.classes.Afcontrol.class` for inherited interfaces.

**Required Interfaces**

`sashelp.classes.staticstringlist.intrface`