


# JSButton

 Apr 03, 2024 22:49

Supported Clients

SmartClient WebClient NGClient MobileClient

Extends

JSComponent

Property Summary		
Number	anchors	Enables a component to stick to a specific side of form and/or to grow or shrink when a window is resized.
String	background	The background color of the component.
String	borderType	The type, color and style of border of the component.
CSSPosition	cssPosition	CSS position is a replacement for anchoring system making it more intuitive to place a component.
String	dataProviderID	The dataprovider of the component.
Boolean	displaysTags	Flag that enables or disables merging of data inside components using tags (placeholders).
Boolean	enabled	The enable state of the component, default true.
String	fontType	The font type of the component.
String	foreground	The foreground color of the component.
Number	formIndex	The Z index of this component.
String	format	The format that should be applied when displaying data(using dataProviderID) in the label /button.
String	groupID	A String representing a group ID for this component.
Number	height	The height in pixels of the component.
Number	horizontalAlignment	Horizontal alignment of the text inside the component.
String	iconType	Icon shown on a button.
JSMedia	imageMedia	The image Media object that should be displayed inside the component.
String	labelFor	Some components can be set to be labels of other components.
String	margin	The margins of the component.
Number	mediaOptions	Options to scale the image Media object that is displayed inside the component.
String	mnemonic	The keyboard shortcut that activates this component.
String	name	The name of the component.
JSMethod	onAction	The method that is executed when the component is clicked.
JSMethod	onDoubleClick	The method that is executed when the component is double clicked.
JSMethod	onRender	The method that is executed when the component is rendered.
JSMethod	onRightClick	The method that is executed when the component is right clicked.
Number	printSliding	Enables an element to resize based on its content and/or move when printing.
Boolean	printable	Flag that tells if the component should be printed or not when the form is printed.
Number	rolloverCursor	The cursor that is shown as the mouse is rolled over the component.
JSMedia	rolloverImageMedia	The roll over image Media object used.
Number	rotation	The rotation of the element.
Boolean	showClick	When set, the element will show the clicked state when selected.
Boolean	showFocus	When set the text of an element will showfocus when selected.
String	styleClass	The name of the style class that should be applied to this component.
Number	tabSeq	An index that specifies the position of the component in the tab sequence.
String	text	The text that is displayed inside the component.
String	toolTipText	The text displayed when hovering over the component with a mouse cursor.
Boolean	transparent	Flag that tells if the component is transparent or not.
Number	verticalAlignment	The vertical alignment of the text inside the component.
Boolean	visible	The visible property of the component, default true.
Number	width	The width in pixels of the component.
Number	x	The x coordinate of the component on the form.
Number	y	The y coordinate of the component on the form.

Methods Summary		
Object	getAttribute(name)	Get the value of an attribute of the element.
Array	getAttributes()	Returns the attribute names of an element.
String	getComment()	Returns the comment of this component.
Object	getDesignTimeProperty(key)	Get a design-time property of an element.
Array	getDesignTimePropertyNames()	Get the design-time properties of an element.
String	getFormName()	Returns the name of the form.

UUID	<a href="#">getUUID()</a>	Returns the UUID of this component.
Object	<a href="#">putDesignTimeProperty(key, value)</a>	Set a design-time property of an element.
String	<a href="#">removeAttribute(name)</a>	Remove the attribute of an element.
Object	<a href="#">removeDesignTimeProperty(key)</a>	Clear a design-time property of an element.
void	<a href="#">setAttribute(name, value)</a>	Set the attribute value of an element.

## Property Details

### anchors

Enables a component to stick to a specific side of form and/or to grow or shrink when a window is resized.

If opposite anchors are activated then the component will grow or shrink with the window. For example if Top and Bottom are activated, then the component will grow/shrink when the window is vertically resized. If Left and Right are activated then the component will grow/shrink when the window is horizontally resized.

If opposite anchors are not activated, then the component will keep a constant distance from the sides of the window which correspond to the activated anchors.

### Returns

[Number](#)

### Supported Clients

SmartClient,WebClient,NGClient

### Sample

```
var form = solutionModel.newForm('mediaForm', 'db:/example_data/parent_table', null, false, 400, 300);
var stretchAllDirectionsLabel = form.newLabel('Stretch all directions', 10, 10, 380, 280);
stretchAllDirectionsLabel.background = 'red';
stretchAllDirectionsLabel.anchors = SM_ANCHOR.ALL;
var stretchVerticallyLabel = form.newLabel('Stretch vertically', 10, 10, 190, 280);
stretchVerticallyLabel.background = 'green';
stretchVerticallyLabel.anchors = SM_ANCHOR.WEST | SM_ANCHOR.NORTH | SM_ANCHOR.SOUTH;
var stretchHorizontallyLabel = form.newLabel('Stretch horizontally', 10, 10, 380, 140);
stretchHorizontallyLabel.background = 'blue';
stretchHorizontallyLabel.anchors = SM_ANCHOR.NORTH | SM_ANCHOR.WEST | SM_ANCHOR.EAST;
var stickToTopLeftCornerLabel = form.newLabel('Stick to top-left corner', 10, 10, 200, 100);
stickToTopLeftCornerLabel.background = 'orange';
stickToTopLeftCornerLabel.anchors = SM_ANCHOR.NORTH | SM_ANCHOR.WEST; // This is equivalent to SM_ANCHOR.DEFAULT
var stickToBottomRightCornerLabel = form.newLabel('Stick to bottom-right corner', 190, 190, 200, 100);
stickToBottomRightCornerLabel.background = 'pink';
stickToBottomRightCornerLabel.anchors = SM_ANCHOR.SOUTH | SM_ANCHOR.EAST;
```

### background

The background color of the component.

### Returns

[String](#)

### Supported Clients

SmartClient,WebClient,NGClient

### Sample

```
// This property can be used on all types of components.
// Here it is illustrated only for labels and fields.
var greenLabel = form.newLabel('Green',10,10,100,50);
greenLabel.background = 'green'; // Use generic names for colors.
var redField = form.newField('parent_table_text',JSField.TEXT_FIELD,10,110,100,30);
redField.background = '#FF0000'; // Use RGB codes for colors.
```

### borderType

The type, color and style of border of the component.

### Returns

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
//HINT: To know exactly the notation of this property set it in the designer and then read it once out through the solution model.
var field = form.newField('my_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
field.borderType = solutionModel.createLineBorder(1,'#ff0000');
```

**cssPosition**

CSS position is a replacement for anchoring system making it more intuitive to place a component. CSS position should be set on form, an absolute position form can either work with anchoring or with css position. This is only working in NGClient.

**Returns**

[CSSPosition](#)

**Supported Clients**

NGClient

**Sample**

```
var label = form.newLabel('Label', -1);
label.cssPosition.r("10").b("10").w("20%").h("30px")
```

**dataProviderID**

The dataprovider of the component.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
// Normally the dataprovider is specified when a component is created.
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 40, 100, 20);
// But it can be modified later if needed.
field.dataProviderID = 'parent_table_id';
```

**displaysTags**

Flag that enables or disables merging of data inside components using tags (placeholders). Tags (or placeholders) are words surrounded by %% on each side. There are data tags and standard tags. Data tags consist in names of dataproviders surrounded by %. Standard tags are a set of predefined tags that are made available by the system.

See the "Merging data" section for more details about tags.

The default value of this flag is "false", that is merging of data is disabled by default.

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var label = form.newLabel('You are viewing record no. %%parent_table_id%. You are running on server %%serverURL%%.',
                          10, 10, 600, 100);
label.displaysTags = true;
```

**enabled**

The enable state of the component, default true.

**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var form = solutionModel.newForm('printForm', 'db:/example_data/parent_table', null, false, 400, 300);
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
field.enabled = false;
```

**fontType**

The font type of the component.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var label = form.newLabel('Text here', 10, 50, 100, 20);
label.fontType = solutionModel.createFont('Times New Roman',1,14);
```

**foreground**

The foreground color of the component.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
// This property can be used on all types of components.
// Here it is illustrated only for labels and fields.
var labelWithBlueText = form.newLabel('Blue text', 10, 10, 100, 30);
labelWithBlueText.foreground = 'blue'; // Use generic names for colors.
var fieldWithYellowText = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 50, 100, 20);
fieldWithYellowText.foreground = '#FFFF00'; // Use RGB codes for colors.
```

**formIndex**

The Z index of this component. If two components overlap, then the component with higher Z index is displayed above the component with lower Z index.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var labelBelow = form.newLabel('Green', 10, 10, 100, 50);
labelBelow.background = 'green';
labelBelow.formIndex = 10;
var fieldAbove = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 30);
fieldAbove.background = '#FF0000';
fieldAbove.formIndex = 20;
```

**format**

The format that should be applied when displaying data(using dataProviderID) in the label/button. Some examples are "%", "dd-MM-yyyy", "MM-dd-yyyy", etc.

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**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var label = form.newLabel('', 10, 10, 100, 100);
label.format = '$#.00';
```

**groupId**

A String representing a group ID for this component. If several components have the same group ID then they belong to the same group of components. Using the group itself, all components can be disabled/enabled or made invisible/visible.

The group id should be a javascript compatible identifier to allow access of the group in scripting.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var form = solutionModel.newForm('someForm', 'db:/example_data/parent_table', null, false, 400, 300);
var label = form.newLabel('Green', 10, 10, 100, 20);
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 40, 100, 20);
label.groupID = 'someGroup';
field.groupID = 'someGroup';
forms['someForm'].elements.someGroup.enabled = false;
```

**height**

The height in pixels of the component.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
application.output('original width: ' + field.width);
application.output('original height: ' + field.height);
field.width = 200;
field.height = 100;
application.output('modified width: ' + field.width);
application.output('modified height: ' + field.height);
```

**horizontalAlignment**

Horizontal alignment of the text inside the component. Can be one of LEFT, CENTER or RIGHT.

Note that this property does not refer to the horizontal alignment of the component inside the form.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var leftAlignedLabel = form.newLabel('LEFT', 10, 10, 300, 20);
leftAlignedLabel.horizontalAlignment = SM_ALIGNMENT.LEFT;
var hCenteredLabel = form.newLabel('CENTER', 10, 40, 300, 20);
hCenteredLabel.horizontalAlignment = SM_ALIGNMENT.CENTER;
var rightAlignedLabel = form.newLabel('RIGHT', 10, 70, 300, 20);
rightAlignedLabel.horizontalAlignment = SM_ALIGNMENT.RIGHT;
```

**iconType**

Icon shown on a button.

**Returns**

[String](#)

**Supported Clients**

NGClient, MobileClient

**Sample**

```
var btn = form.newButton('I am a button', 1, null);
btn.iconType = JSButton.ICON_STAR
```

**imageMedia**

The image Media object that should be displayed inside the component.

**Returns**

[JSMedia](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
var ballBytes = plugins.file.readFile('d:/ball.jpg');
var ballImage = solutionModel.newMedia('ball.jpg', ballBytes);
var label = form.newLabel('', 10, 10, 100, 100);
label.imageMedia = ballImage;
```

**labelFor**

Some components can be set to be labels of other components. This is useful in two situations. In table view mode it is used for constructing the header of the table. In record view mode, by setting mnemonics on the label, keyboard shortcuts can be used to set the focus to fields.

**Returns**

[String](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
var labelOne = form.newLabel('Label One', 10, 10, 100, 20);
var fieldOne = form.newField('parent_table_id', JSField.TEXT_FIELD, 120, 10, 100, 20);
fieldOne.name = 'fieldOne';
labelOne.labelFor = 'fieldOne';
labelOne.mnemonic = 'O';
```

**margin**

The margins of the component. They are specified in this order, separated by commas: top, left, bottom, right.

**Returns**

[String](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
var label = form.newLabel('Label', 10, 10, 150, 150);
label.background = 'yellow';
label.margin = '10,20,30,40';
```

**mediaOptions**

Options to scale the image Media object that is displayed inside the component.  
Can be set to one or a combination of CROP, REDUCE, ENLARGE and KEEPASPECT.

REDUCE will scale down the image if the component is smaller than the image.  
REDUCE combined with KEEPASPECT will reduce the image, but keep its aspect ratio.  
This is useful when the component has other proportions than the image.

ENLARGE will scale up the image if the component is larger than the image.  
ENLARGE combined with KEEPASPECT will scale up the image while keeping its aspect ratio.

CROP will leave the image at its original size. If the component is smaller than the image this will result in only a part of the image showing up.

**Returns**

[Number](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
// Load two images, a big one and a small one.
var bigBytes = plugins.file.readFile('d:/big.jpg');
var bigImage = solutionModel.newMedia('big.jpg', bigBytes);
var smallBytes = plugins.file.readFile('d:/small.jpg');
var smallImage = solutionModel.newMedia('small.jpg', smallBytes);
// Put the big image in several small labels, with different media options.
var smallLabelWithBigImageReduceKeepAspect = form.newLabel('', 10, 10, 50, 50);
smallLabelWithBigImageReduceKeepAspect.imageMedia = bigImage;
smallLabelWithBigImageReduceKeepAspect.background = 'yellow';
smallLabelWithBigImageReduceKeepAspect.mediaOptions = SM_MEDIAOPTION.REDUCE | SM_MEDIAOPTION.KEEPASPECT;
var smallLabelWithBigImageReduceNoAspect = form.newLabel('', 70, 10, 50, 50);
smallLabelWithBigImageReduceNoAspect.imageMedia = bigImage;
smallLabelWithBigImageReduceNoAspect.background = 'yellow';
smallLabelWithBigImageReduceNoAspect.mediaOptions = SM_MEDIAOPTION.REDUCE;
var smallLabelWithBigImageCrop = form.newLabel('', 130, 10, 50, 50);
smallLabelWithBigImageCrop.imageMedia = bigImage;
smallLabelWithBigImageCrop.background = 'yellow';
smallLabelWithBigImageCrop.mediaOptions = SM_MEDIAOPTION.CROP;
// Put the small image in several big labels, with different media options.
var bigLabelWithSmallImageEnlargeKeepAspect = form.newLabel('', 10, 70, 200, 100);
bigLabelWithSmallImageEnlargeKeepAspect.imageMedia = smallImage;
bigLabelWithSmallImageEnlargeKeepAspect.background = 'yellow';
bigLabelWithSmallImageEnlargeKeepAspect.mediaOptions = SM_MEDIAOPTION.ENLARGE | SM_MEDIAOPTION.KEEPASPECT;
var bigLabelWithSmallImageEnlargeNoAspect = form.newLabel('', 10, 180, 200, 100);
bigLabelWithSmallImageEnlargeNoAspect.imageMedia = smallImage;
bigLabelWithSmallImageEnlargeNoAspect.background = 'yellow';
bigLabelWithSmallImageEnlargeNoAspect.mediaOptions = SM_MEDIAOPTION.ENLARGE;
var bigLabelWithSmallImageCrop = form.newLabel('', 10, 290, 200, 100);
bigLabelWithSmallImageCrop.imageMedia = smallImage;
bigLabelWithSmallImageCrop.background = 'yellow';
bigLabelWithSmallImageCrop.mediaOptions = SM_MEDIAOPTION.CROP; // This does not do any cropping actually if the
label is larger than the image.
```

**mnemonic**

The keyboard shortcut that activates this component. A letter must be specified, and the actual shortcut will be combination of ALT + the specified letter.

This property can be used in two ways. Normally the keyboard shortcut activates the onClick event of the component. But if the "labelFor" property is set for the component, then the keyboard shortcut will move the focus to the component whose label this component is.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var m = form.newMethod('function onClick() { application.output("I was clicked."); }');
var btn = form.newButton('I am a button', 10, 40, 200, 20, m);
btn.mnemonic = 'B'; // When ALT-B is pressed the mouse will respond as if clicked.
var labelOne = form.newLabel('Label One', 10, 10, 100, 20);
var fieldOne = form.newField('parent_table_id', JSField.TEXT_FIELD, 120, 10, 100, 20);
fieldOne.name = 'fieldOne';
labelOne.labelFor = 'fieldOne';
labelOne.mnemonic = 'O'; // When ALT-O is pressed the focus will move to fieldOne.
```

**name**

The name of the component. Through this name it can also accessed in methods.  
Must be a valid javascript name. (no - in the name or start with number)

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var form = solutionModel.newForm('someForm', 'db:/example_data/parent_table', null, false, 620, 300);
var label = form.newLabel('Label', 10, 10, 150, 150);
label.name = 'myLabel'; // Give a name to the component.
forms['someForm'].controller.show()
// Now use the name to access the component.
forms['someForm'].elements['myLabel'].text = 'Updated text';
```

**onAction**

The method that is executed when the component is clicked.

**Returns**[JSMethod](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var doNothingMethod = form.newMethod('function doNothing() { application.output("Doing nothing."); }');
var onClickMethod = form.newMethod('function onClick(event) { application.output("I was clicked at " + event.
getTimestamp()); }');
var onDoubleClickMethod = form.newMethod('function onDoubleClick(event) { application.output("I was double-
clicked at " + event.getTimestamp()); }');
var onRightClickMethod = form.newMethod('function onRightClick(event) { application.output("I was right-clicked
at " + event.getTimestamp()); }');
// At creation the button has the 'doNothing' method as onClick handler, but we'll change that later.
var btn = form.newButton('I am a button', 10, 40, 200, 20, doNothingMethod);
btn.onAction = onClickMethod;
btn.onDoubleClick = onDoubleClickMethod;
btn.onRightClick = onRightClickMethod;
```

**onDoubleClick**

The method that is executed when the component is double clicked.

**Returns**[JSMethod](#)**Supported Clients**

SmartClient,WebClient,NGClient



**Sample**

```
var doNothingMethod = form.newMethod('function doNothing() { application.output("Doing nothing."); }');
var onClickMethod = form.newMethod('function onClick(event) { application.output("I was clicked at " + event.
getTimestamp()); }');
var onDoubleClickMethod = form.newMethod('function onDoubleClick(event) { application.output("I was double-
clicked at " + event.getTimestamp()); }');
var onRightClickMethod = form.newMethod('function onRightClick(event) { application.output("I was right-clicked
at " + event.getTimestamp()); }');
// At creation the button has the 'doNothing' method as onClick handler, but we'll change that later.
var btn = form.newButton('I am a button', 10, 40, 200, 20, doNothingMethod);
btn.onAction = onClickMethod;
btn.onDoubleClick = onDoubleClickMethod;
btn.onRightClick = onRightClickMethod;
```

**onRender**

The method that is executed when the component is rendered.

**Returns**

[JSMethod](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
label.onRender = form.newMethod('function onRender(event) { event.getElement().bgcolor = \'#00ff00\' }');
```

**onRightClick**

The method that is executed when the component is right clicked.

**Returns**

[JSMethod](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
var doNothingMethod = form.newMethod('function doNothing() { application.output("Doing nothing."); }');
var onClickMethod = form.newMethod('function onClick(event) { application.output("I was clicked at " + event.
getTimestamp()); }');
var onDoubleClickMethod = form.newMethod('function onDoubleClick(event) { application.output("I was double-
clicked at " + event.getTimestamp()); }');
var onRightClickMethod = form.newMethod('function onRightClick(event) { application.output("I was right-clicked
at " + event.getTimestamp()); }');
// At creation the button has the 'doNothing' method as onClick handler, but we'll change that later.
var btn = form.newButton('I am a button', 10, 40, 200, 20, doNothingMethod);
btn.onAction = onClickMethod;
btn.onDoubleClick = onDoubleClickMethod;
btn.onRightClick = onRightClickMethod;
```

**printSliding**

Enables an element to resize based on its content and/or move when printing. The component can move horizontally or vertically and can grow or shrink in height and width, based on its content and the content of neighboring components.

**Returns**

[Number](#)

**Supported Clients**

SmartClient, WebClient

**Sample**

```
var form = solutionModel.newForm('printForm', 'db:/example_data/parent_table', null, false, 400, 300);
var slidingLabel = form.newLabel('Some long text here', 10, 10, 5, 5);
slidingLabel.printSliding = SM_PRINT_SLIDING.GROW_HEIGHT | SM_PRINT_SLIDING.GROW_WIDTH;
slidingLabel.background = 'gray';
forms['printForm'].controller.showPrintPreview();
```

**printable**

Flag that tells if the component should be printed or not when the form is printed.

By default components are printable.

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient

**Sample**

```
var form = solutionModel.newForm('printForm', 'db:/example_data/parent_table', null, false, 400, 300);
var printedField = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
var notPrintedField = form.newField('parent_table_id', JSField.TEXT_FIELD, 10, 40, 100, 20);
notPrintedField.printable = false; // This field won't show up in print preview and won't be printed.
forms['printForm'].controller.showPrintPreview();
```

**rolloverCursor**

The cursor that is shown as the mouse is rolled over the component.

Possible options are DEFAULT and HAND. Note that roll over cursor is not supported in Smart client for list view and tableview forms.

**Returns**

[Number](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var label = form.newLabel('Move the mouse over me', 10, 10, 200, 200);
label.rolloverCursor = SM_CURSOR.HAND_CURSOR;
```

**rolloverImageMedia**

The roll over image Media object used. It will only work if a property image is also used.

When the mouse is moved over the component, this image Media will be displayed.

When the mouse is moved out of the component, whatever text or image was being initially displayed will be restored. Note that roll over image is not supported in Smart client for list view and tableview forms.

**Returns**

[JSMedia](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var ballBytes = plugins.file.readFile('d:/ball.jpg');
var ballImage = solutionModel.newMedia('ball.jpg', ballBytes);
var mapBytes = plugins.file.readFile('d:/map.jpg');
var mapImage = solutionModel.newMedia('map.jpg', mapBytes);
var label = form.newLabel('', 10, 10, 200, 200);
label.imageMedia = mapImage;
label.rolloverImageMedia = ballImage;
```

**rotation**

The rotation of the element. You can choose 0, 90, 180, or 270 and the label is rotated accordingly. This property also applies to buttons and images.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var m = form.newMethod('function onClick() { application.output("I was clicked."); }');
var label = form.newLabel('I am a label', 10, 10, 200, 200, m);
label.rotation = 90;
var btn = form.newButton('And I am a button', 10, 220, 200, 20, m);
btn.rotation = 180;
```

**showClick**

When set, the element will show the clicked state when selected.  
Applies to labels and buttons and images only.

**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
// Create a form method.
var m = form.newMethod('function onClick() { application.output("I was clicked."); }');
// Create a label with the method attached to its onClick event.
var label = form.newLabel('I am a label', 10, 10, 200, 20, m);
// By default the label does not visually react to clicks, but we can enable this.
// Basically the label will now behave as a button does.
label.showClick = true;
// Create a button with the same method attached to its onClick event.
var btn = form.newButton('And I am a button', 10, 40, 200, 20, m);
// By default the button visually reacts to onClick, but we can disable this.
// Then the button will behave like a label does.
btn.showClick = false;
```

**showFocus**

When set the text of an element will showfocus when selected.  
Applies to labels and buttons only.  
The text property for the element MUST be filled in first.

NOTE: The TAB key may also be used to select the element, depending on the operating system being used and the selected LAF.

**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var m = form.newMethod('function onClick() { application.output("I was clicked."); }');
var label = form.newLabel('I am a label', 10, 10, 200, 20, m);
label.showFocus = false;
var btn = form.newButton('And I am a button', 10, 40, 200, 20, m);
btn.showFocus = false;
```

**styleClass**

The name of the style class that should be applied to this component.

When defining style classes for specific component types, their names must be prefixed according to the type of the component. For example in order to define a class names 'fancy' for fields, in the style definition the class must be named 'field.fancy'. If it would be intended for labels, then it would be named 'label.fancy'. When specifying the class name for a component, the prefix is dropped however. Thus the field or the label will have its styleClass property set to 'fancy' only.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var form = solutionModel.newForm('printForm', 'db:/example_data/parent_table', null, false, 400, 300);
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
var style = solutionModel.newStyle('myStyle','field.fancy { background-color: yellow; }');
form.styleName = 'myStyle'; // First set the style on the form.
field.styleClass = 'fancy'; // Then set the style class on the field.
```

**tabSeq**

An index that specifies the position of the component in the tab sequence. The components are put into the tab sequence in increasing order of this property. A value of 0 means to use the default mechanism of building the tab sequence (based on their location on the form). A value of -2 means to remove the component from the tab sequence.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
// Create three fields. Based on how they are placed, by default they will come one
// after another in the tab sequence.
var fieldOne = form.newField('parent_table_id', JSField.TEXT_FIELD, 10, 10, 100, 20);
var fieldTwo = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 40, 100, 20);
var fieldThree = form.newField('parent_table_id', JSField.TEXT_FIELD, 10, 70, 100, 20);
// Set the third field come before the first in the tab sequence, and remove the
// second field from the tab sequence.
fieldOne.tabSeq = 2;
fieldTwo.tabSeq = SM_DEFAULTS.IGNORE;
fieldThree.tabSeq = 1;
```

**text**

The text that is displayed inside the component.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
// In general the text is specified when creating the component.
var label = form.newLabel('Initial text', 10, 10, 100, 20);
// But it can be changed later if needed.
label.text = 'Changed text';
```

**toolTipText**

The text displayed when hovering over the component with a mouse cursor.

**NOTE:**

HTML should be used for multi-line tooltips; you can also use any valid HTML tags to format tooltip text. For example:  
 <html>This includes<b>bolded text</b> and  
 <font color='blue'>BLUE</font> text as well.</html>

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var label = form.newLabel('Stop the mouse over me!', 10, 10, 200, 20);
label.toolTipText = 'I\'m the tooltip. Do you see me?';
```

**transparent**

Flag that tells if the component is transparent or not.

The default value is "false", that is the components are not transparent.

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
// Load an image from disk and create a Media object based on it.
var imageBytes = plugins.file.readFile('d:/ball.jpg');
var media = solutionModel.newMedia('ball.jpg', imageBytes);
// Put on the form a label with the image.
var image = form.newLabel('', 10, 10, 100, 100);
image.imageMedia = media;
// Put two fields over the image. The second one will be transparent and the
// image will shine through.
var nonTransparentField = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 20, 100, 20);
var transparentField = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 50, 100, 20);
transparentField.transparent = true;
```

**verticalAlignment**

The vertical alignment of the text inside the component. Can be one of TOP, CENTER or BOTTOM.

Note that this property does not refer to the vertical alignment of the component inside the form.

**Returns**

[Number](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var topAlignedLabel = form.newLabel('TOP', 400, 10, 50, 300);
topAlignedLabel.verticalAlignment = SM_ALIGNMENT.TOP;
var vCenterAlignedLabel = form.newLabel('CENTER', 460, 10, 50, 300);
vCenterAlignedLabel.verticalAlignment = SM_ALIGNMENT.CENTER;
var bottomAlignedLabel = form.newLabel('BOTTOM', 520, 10, 50, 300);
bottomAlignedLabel.verticalAlignment = SM_ALIGNMENT.BOTTOM;
```

**visible**

The visible property of the component, default true.

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var form = solutionModel.newForm('printForm', 'db:/example_data/parent_table', null, false, 400, 300);
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
field.visible = false;
```

**width**

---

The width in pixels of the component.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
application.output('original width: ' + field.width);
application.output('original height: ' + field.height);
field.width = 200;
field.height = 100;
application.output('modified width: ' + field.width);
application.output('modified height: ' + field.height);
```

**x**

The x coordinate of the component on the form.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
application.output('original location: ' + field.x + ', ' + field.y);
field.x = 90;
field.y = 90;
application.output('changed location: ' + field.x + ', ' + field.y);
```

**y**

The y coordinate of the component on the form.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**

```
var field = form.newField('parent_table_text', JSField.TEXT_FIELD, 10, 10, 100, 20);
application.output('original location: ' + field.x + ', ' + field.y);
field.x = 90;
field.y = 90;
application.output('changed location: ' + field.x + ', ' + field.y);
```

## Methods Details

**getAttribute(name)**

Get the value of an attribute of the element.

**Parameters**[String](#) name the name of the attribute**Returns**[Object](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
var attributes = fld.getAttributes();
for (var i = 0; i < attributes.length; i++)
{
    application.output(fld.getAttribute(attributes[i]));
}
```

**getAttributes()**

Returns the attribute names of an element.

**Returns**

[Array](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
var attributes = fld.getAttributes();
for (var i = 0; i < attributes.length; i++)
{
    application.output(fld.getAttribute(attributes[i]));
}
```

**getComment()**

Returns the comment of this component.

**Returns**

[String](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
var comment = solutionModel.getForm("my_form").getButton("my_button").getComment();
application.output(comment);
```

**getDesignTimeProperty(key)**

Get a design-time property of an element.

**Parameters**

[String](#) key the name of the property

**Returns**

[Object](#)

**Supported Clients**

SmartClient, WebClient, NGClient

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
var prop = fld.getDesignTimeProperty('myprop')
```

**getDesignTimePropertyNames()**

Get the design-time properties of an element.

**Returns**

[Array](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
var propNames = fld.getDesignTimePropertyNames()
```

**getFormName()**

Returns the name of the form. (may be empty string as well)

**Returns**[String](#) The name of the form.**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var name = %%elementName%%.getFormName();
```

**getUUID()**

Returns the UUID of this component.

**Returns**[UUID](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var button_uuid = solutionModel.getForm("my_form").getButton("my_button").getUUID();
application.output(button_uuid.toString());
```

**putDesignTimeProperty(key, value)**

Set a design-time property of an element.

**Parameters**[String](#) key the name of the property[Object](#) value the value to store**Returns**[Object](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
fld.putDesignTimeProperty('myprop', 'strawberry')
```

**removeAttribute(name)**

Remove the attribute of an element.

**Parameters**[String](#) name the name of the attribute**Returns**[String](#) the deleted attribute value**Supported Clients**

SmartClient,WebClient,NGClient



---

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
fld.removeAttribute('keylistener')
```

**removeDesignTimeProperty(key)**

Clear a design-time property of an element.

**Parameters**

[String](#) key the name of the property

**Returns**

[Object](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
fld.removeDesignTimeProperty('myprop')
```

**setAttribute(name, value)**

Set the attribute value of an element.

**Parameters**

[String](#) name the name of the attribute

[String](#) value the value of the attribute

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

```
var frm = solutionModel.getForm('orders')
var fld = frm.getField('fld')
fld.setAttribute('keylistener', 'callback')
```