

FLEX - SKINNABLECONTAINER

http://www.tutorialspoint.com/flex/flex_skinablecontainer.htm

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Introduction

The SkinnableContainer class is the base class for all the skinnable containers that have visual content.

Class declaration

Following is the declaration for **spark.components.SkinableContainer** class:

```
public class SkinnableContainer
    extends SkinnableContainerBase
    implements IDeferredContentOwner, IVisualElementContainer
```

Public properties

S.N.	Property & Description
1	autoLayout : Boolean If true, measurement and layout are done when the position or size of a child is changed.
2	creationPolicy : String Content creation policy for this component.
3	deferredContentCreated : Boolean [read-only] Contains true if deferred content has been created.
4	layout : LayoutBase The layout object for this container.
5	mxmlContent : Array [write-only] The visual content children for this Group.
6	mxmlContentFactory : IDeferredInstance [write-only] A factory object that creates the initial value for the content property.
7	numElements : int [read-only] The number of visual elements in this container.

Public methods

S.N.	Method & Description
1	SkinnableContainer Constructor.
2	addElement <i>element: IVisualElement</i> :IVisualElement Adds a visual element to this container.
3	addElementAt <i>element: IVisualElement, index: int</i> :IVisualElement Adds a visual element to this container.
4	createDeferredContent :void Create the content for this component.
5	getElementAt <i>index: int</i> :IVisualElement Returns the visual element at the specified index.
6	getElementIndex <i>element: IVisualElement</i> :int Returns the index position of a visual element.
7	removeAllElements :void Removes all visual elements from the container.
8	removeElement <i>element: IVisualElement</i> :IVisualElement Removes the specified visual element from the child list of this container.
9	removeElementAt <i>index: int</i> :IVisualElement Removes a visual element from the specified index position in the container.
10	setElementIndex <i>element: IVisualElement, index: int</i> :void Changes the position of an existing visual element in the visual container.
11	swapElements <i>element1: IVisualElement, element2: IVisualElement</i> :void Swaps the index of the two specified visual elements.
12	

swapElementsAt*index1: int, index2: int: void*

Swaps the visual elements at the two specified index positions in the container.

Protected methods

S.N.	Method & Description
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- | | |
|---|---|
| 1 | createChildren: void
[override] Create content children, if the creationPolicy property is not equal to none. |
| 2 | partAdded <i>partName: String, instance: Object: void</i>
[override] Called when a skin part is added. |
| 3 | partRemoved <i>partName: String, instance: Object: void</i>
[override] Called when an instance of a skin part is being removed. |

Events

S.N.	Event & Description
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- | | |
|---|---|
| 1 | contentCreationComplete
Dispatched after the content for this component has been created. |
| 2 | elementAdd
Dispatched when a visual element is added to the content holder. |
| 3 | elementRemove
Dispatched when a visual element is removed from the content holder. |

Methods inherited

This class inherits methods from the following classes:

- spark.components.supportClasses.SkinnableContainerBase
- mx.core.UIComponent
- mx.core.FlexSprite
- flash.display.Sprite
- flash.display.DisplayObjectContainer

- flash.display.InteractiveObject
- flash.display.DisplayObject
- flash.events.EventDispatcher
- Object

Flex SkinnableContainer Example

Let us follow the following steps to check usage of SkinnableContainer in a Flex application by creating a test application:

Step	Description
1	Create a project with a name <i>HelloWorld</i> under a package <i>com.tutorialspoint.client</i> as explained in the <i>Flex - Create Application</i> chapter.
2	Create a skin <i>SkinnableContainerSkin</i> for a host Component <i>SkinnableContainer</i> under a package <i>com.tutorialspoint.skin</i> as explained in <i>Flex - Style with skin</i> chapter. Keep rest of the files unchanged.
3	Modify <i>HelloWorld.mxml</i> as explained below. Keep rest of the files unchanged.
4	Compile and run the application to make sure business logic is working as per the requirements.

Following is the content of the modified mxml file
src/com.tutorialspoint/skin/SkinnableContainerSkin.mxml.

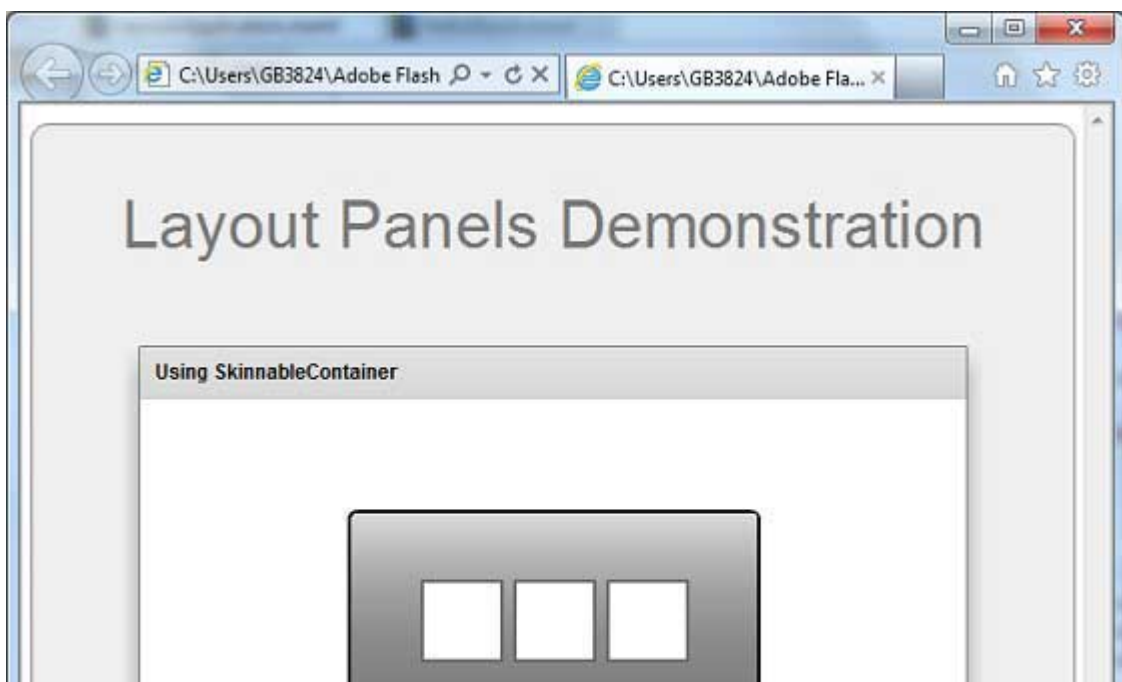
```
<?xml version="1.0" encoding="utf-8"?>
<s:Skin xmlns:fx="http://ns.adobe.com/mxml/2009"
  xmlns:s="library://ns.adobe.com/flex/spark"
  xmlns:fb="http://ns.adobe.com/flashbuilder/2009" alpha.disabled="0.5">
  <fx:Metadata>
    <![CDATA[
      /**
       * @copy spark.skins.spark.ApplicationSkin#hostComponent
       */
      [HostComponent("spark.components.SkinnableContainer")]
    ]]>
  </fx:Metadata>
  <s:states>
    <s:State name="normal" />
    <s:State name="disabled" />
  </s:states>
  <s:Rect left="0" right="0" top="0"
    bottom="0" radiusX="5" radiusY="5">
    <s:stroke>
      <s:LinearGradientStroke weight="2"/>
    </s:stroke>
    <s:fill>
      <s:LinearGradient rotation="90">
        <s:entries>
          <s:GradientEntry color="0xdddddd"/>
          <s:GradientEntry color="0x020202" alpha=".5" />
        </s:entries>
      </s:LinearGradient>
    </s:fill>
  </s:Rect>
  <s:Group
    top="0" bottom="0" minWidth="0" minHeight="0">
    <s:layout>
      <s:BasicLayout/>
    </s:layout>
  </s:Group>
```

```
</s:Group>
</s:Skin>
```

Following is the content of the modified mxml file **src/com.tutorialspoint/HelloWorld.mxml**.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Application xmlns:fx="http://ns.adobe.com/mxml/2009"
  xmlns:s="library://ns.adobe.com/flex/spark"
  xmlns:mx="library://ns.adobe.com/flex/mx"
  width="100%" height="100%" minWidth="500" minHeight="500"
  >
  <fx:Style source="/com/tutorialspoint/client/Style.css"/>
  <s:BorderContainer width="630" height="480"
    styleName="container">
    <s:VGroup width="100%" height="100%" gap="50"
      horizontalAlign="center" verticalAlign="middle">
      <s:Label
        fontSize="40" color="0x777777" styleName="heading"/>
      <s:Panel
        width="500" height="300" >
        <s:layout>
          <s:VerticalLayout gap="10" verticalAlign="middle"
            horizontalAlign="center"/>
        </s:layout>
        <s:SkinnableContainer
          skinClass="com.tutorialspoint.skin.SkinnableContainersSkin"
          width="50%" height="50%" horizontalCenter="0"
          verticalCenter="0">
          <s:HGroup horizontalCenter="0" verticalCenter="0">
            <s:BorderContainer width="50" height="50"
              borderWidth="2" color="0x323232" />
            <s:BorderContainer width="50" height="50"
              borderWidth="2" color="0x323232" />
            <s:BorderContainer width="50" height="50"
              borderWidth="2" color="0x323232" />
          </s:HGroup>
        </s:SkinnableContainer>
      </s:Panel>
    </s:VGroup>
  </s:BorderContainer>
</s:Application>
```

Once you are ready with all the changes done, let us compile and run the application in normal mode as we did in [Flex - Create Application](#) chapter. If everything is fine with your application, this will produce following result: [[Try it online](#)]





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