

# Flex Class Library Reference

## mx.containers

**Accordion**  
extends mx.containers.Container  
The Accordion navigator container defines a sequence of child panels that contain containers.  
`<mx:Accordion/>`

**Box**  
extends mx.containers.Container  
The Box class is the base class for HBox and VBox.  
`<mx:Box/>`

**Canvas**  
extends mx.containers.Container  
A Canvas layout container defines a rectangular region in which you place child containers and controls.  
`<mx:Canvas/>`

**Container**  
extends mx.containers.Container  
The Container class is an abstract base class.

**ControlBar**  
extends mx.core.View  
The ControlBar component lets you place controls for a window into a common location at the bottom of the window.  
`<mx:ControlBar/>`

**DividedBox**  
extends mx.containers.Box  
The DividedBox class is the base class for HDividedBox and VDividedBox.  
`<mx:DividedBox/>`

**Form**  
extends mx.containers.Container  
The Form container lets you control the layout of a form, mark form fields as required or optional, handle error messages, and bind your form data to the Flex data model in order to perform data checking and validation.  
`<mx:Form/>`

**FormHeading**  
extends mx.controls.UIComponent  
The FormHeading component defines the heading of a Form container.  
`<mx:FormHeading/>`

**FormItem**  
extends mx.containers.Container  
The FormItem container defines one or more form children arranged horizontally or vertically.  
`<mx:FormItem/>`

**Grid**  
extends mx.containers.Box  
A Grid container lets you arrange children as rows and columns of cells, similar to an HTML table.  
`<mx:Grid/>`

**GridItem**  
extends mx.containers.HBox  
The GridItem container defines a grid cell.  
`<mx:GridItem/>`

**GridRow**  
extends mx.containers.Box  
The GridRow container defines a Grid row in a Grid container.  
`<mx:GridRow/>`

**HBox**  
extends mx.containers.Box  
The HBox container lays out its children horizontally by default.  
`<mx:HBox/>`

**HDividedBox**  
extends mx.containers.DividedBox  
The HDividedBox container lays out its children horizontally and inserts a divider between each child.  
`<mx:HDividedBox/>`

**LinkBar**  
extends mx.containers.NavBar  
A LinkBar container defines a horizontal row of Link controls that designate a series of link destinations.  
`<mx:LinkBar/>`

**NavBar**  
extends mx.containers.Box  
The NavBar class is a base class for navigator bars, including LinkBar and TabBar.

**Panel**  
extends mx.containers.VBox  
A Panel navigator container consists of a title bar, a caption, a border, and a content area for its child.  
`<mx:Panel/>`

**TabBar**  
extends mx.containers.NavBar  
The TabBar container lets you create a series of tabs by defining the labels and data associated with each tab.  
`<mx:TabBar/>`

**TabNavigator**  
extends mx.containers.ViewStack  
The TabNavigator container creates and manages a set of tabs, which you use to navigate among its children.  
`<mx:TabNavigator/>`

**Tile**  
extends mx.containers.Container  
A Tile container lays out its children in one or more vertical columns or horizontal rows, starting new rows or columns as necessary.  
`<mx:Tile/>`

**TitleWindow**  
extends mx.containers.Panel  
A TitleWindow navigator container contains a title bar, a caption, a border, and a content area for its child.  
`<mx:TitleWindow/>`

**VBox**  
extends mx.containers.Box  
The VBox container lays out its children vertically by default.  
`<mx:VBox/>`

**VDividedBox**  
extends mx.containers.DividedBox  
The VDividedBox container lays out its children vertically and inserts a divider between each child.  
`<mx:VDividedBox/>`

**ViewStack**  
extends mx.containers.Container  
A ViewStack navigator container consists of a collection of child containers stacked on top of each other with only one container visible, or active, at a time.  
`<mx:ViewStack/>`

## mx.controls

**Alert**  
extends mx.containers.Window  
The Alert control is a pop-up dialog box that you open by calling the Application container's alert method.

**Button**  
extends mx.controls.SimpleButton  
The Button control is a commonly used rectangular button.  
`<mx:Button/>`

**CheckBox**  
extends mx.controls.Button  
The CheckBox control is a commonly used graphical control that can contain a check mark or be unchecked (empty).  
`<mx:CheckBox/>`

**ComboBase**  
extends mx.core.UIComponent  
The ComboBase control includes a dataProvider, a textField and a button.  
`<mx:ComboBase/>`

**ComboBox**  
extends mx.controls.ComboBase  
The ComboBox control is a drop-down list from which the user can select a single value.  
`<mx:ComboBox/>`

**DataGrid**  
extends mx.controls.List  
The DataGrid control is a list that can show more than one column of data.  
`<mx>DataGrid/>`

**DateChooser**  
extends mx.core.UIComponent  
The DateChooser control displays the name of a month, the year, and a grid of the days of the month, with columns labeled for the day of the week.  
`<mx>DateChooser/>`

**DateField**  
extends mx.controls.ComboBase  
The DateField control is a text field that shows the date with a calendar icon on its right side.  
`<mx>DateField/>`

**FormItemLabel**  
extends mx.controls.Label  
The FormItemLabel class is the label portion of a FormItem container.

**HRule**  
extends mx.core.UIComponent  
The HRule control creates a single horizontal line.  
`<mx:HRule/>`

**Image**  
extends mx.controls.Loader  
You use the `<mx:image>` tag to import JPEG, PNG, and GIF images.  
`<mx:image/>`

## mx.controls.sliderclasses

**Slider**  
extends mx.core.UIComponent  
The Slider class is the base class for the Flex slider controls.

**SliderLabel**  
extends mx.controls.Label  
SliderLabel is the label used in the mx.

**Label**  
extends mx.core.UIObject  
The Label control is a noneditable single line field label.  
`<mx:Label/>`

**Link**  
extends mx.controls.Button  
The Link control is a simple hypertext link that supports an optional icon.  
`<mx:Link/>`

**List**  
extends mx.controls.listclasses.ScrollSelectList  
The List control displays a vertical list of single-line items.  
`<mx:List/>`

**Loader**  
extends mx.core.View  
The Loader control displays the contents of a specified SWF or JPG file.  
`<mx:Loader/>`

**MediaController**  
extends mx.core.UIComponent  
The MediaController control complements the MediaDisplay control by providing a user interface that controls media playback using standard controls such as play and pause.  
`<mx:MediaController/>`

**MediaDisplay**  
extends mx.core.UIComponent  
The MediaDisplay control lets media be streamed into an application without a supporting user interface.  
`<mx:MediaDisplay/>`

**MediaPlayback**  
extends mx.core.View  
The MediaPlayback control is a combination of the MediaController and MediaDisplay controls.  
`<mx:MediaPlayback/>`

**Menu**  
extends mx.controls.listclasses.ScrollSelectList  
The Menu control creates a pop-up menu of individually selectable choices, similar to the File or Edit menu found in most software applications.

**MenuBar**  
extends mx.core.UIComponent  
The MenuBar control defines a horizontal menu bar that contains one or more submenus.  
`<mx:MenuBar/>`

**NumericStepper**  
extends mx.core.UIComponent  
The NumericStepper control lets the user select a number from an ordered set.  
`<mx:NumericStepper/>`

**ProgressBar**  
extends mx.core.UIObject  
The ProgressBar control provides a visual representation of the progress of a task over time.  
`<mx:ProgressBar/>`

**SliderThumb**  
extends mx.controls.SimpleButton  
Represents a thumb of a Slider.

**SliderToolTip**  
extends mx.controls.ToolTip  
SliderToolTip is the tooltip used in the mx.

**RadioButton**  
extends mx.controls.Button  
The RadioButton control lets the user make a single choice within a set of mutually exclusive choices.  
`<mx:RadioButton/>`

**RadioButtonGroup**  
The RadioButtonGroup control defines a group of RadioButton controls.  
`<mx:RadioButtonGroup/>`

**SimpleButton**  
extends mx.core.UIComponent  
The SimpleButton control creates a button that does not need to be resized.

**Spacer**  
extends mx.core.UIObject  
The Spacer control helps you lay out children within a parent container.  
`<mx:Spacer/>`

**Text**  
extends mx.controls.Label  
The Text control displays multiline, noneditable text.  
`<mx:Text/>`

**TextArea**  
extends mx.core.ScrollView  
The TextArea control is a multiline text field with a border and optional scroll bars.  
`<mx:TextArea/>`

**TextInput**  
extends mx.core.UIComponent  
The TextInput control is a single-line text field that is optionally editable.  
`<mx:TextInput/>`

**ToolTip**  
extends mx.core.UIComponent  
The ToolTip control lets you provide helpful information to your users.

**Tree**  
extends mx.controls.List  
The Tree control lets a user view hierarchical data arranged as an expandable tree.  
`<mx:Tree/>`

**VRule**  
extends mx.core.UIComponent  
The VRule control creates a single vertical line.  
`<mx:VRule/>`

**VScrollBar**  
extends mx.controls.scrollClasses.ScrollBar  
The VScrollBar (vertical ScrollBar) control and HScrollBar (horizontal ScrollBar) control let the user control the portion of data that is displayed when there is too much data to fit in the display area.  
`<mx:VScrollBar/>`

## mx.controls.alertClasses

**AlertForm**  
extends mx.core.UIComponent  
The AlertForm control exists within the alert window and contains messages, buttons, and, optionally, an icon.

## mx.controls.gridclasses

**DataGridColumn**  
extends mx.core.CSSStyleDeclaration  
The DataGridColumn class refers to a column within a DataGrid control.  
`<mx>DataGridColumn/>`

**DataGridRow**  
extends mx.controls.listClasses.SelectableRow  
The DataGridRow class refers to a row within a DataGrid.

## mx.controls.listclasses

**DataProvider**  
extends Object  
The DataProvider Decorator Object ensures that you can manipulate arrays using the getItemAt method and other methods in the DataProvider API, which broadcast changes to views.

**DataSelector**  
extends Object  
The DataSelector class is a Decorator or mixin class, which means that it dynamically adds methods and properties to other objects, typically the prototype of another class.

**DragProxy**  
extends mx.core.UIObject  
The DragProxy class is the default image used during drag and drop operations.

**ScrollSelectList**  
extends mx.core.ScrollView  
The ScrollSelectList class is the base class for selectable lists of rows that support scrolling.

**SelectableRow**  
extends mx.core.UIComponent  
The SelectableRows class is the base class of selectable rows for lists.

## mx.controls.menuclasses

**MenuItem**  
extends mx.core.UIComponent  
The MenuItem class defines one item in a MenuBar control, which knows how to manage its state as it's being pressed, rolled over, and so on.

## mx.controls.scrollClasses

**ScrollBar**  
extends mx.core.UIComponent  
The ScrollBar class is the base class for HScrollBar and VScrollBar controls.  
`<mx:ScrollBar/>`

**ScrollThumb**  
extends mx.controls.CustomButton  
The ScrollThumb class is the thumb of the scrollbar, which is a custom button.

## mx.controls.treeclasses

**TreeDataProvider**  
interface TreeDataProvider  
The TreeDataProvider class is an interface for objects that can provide hierarchical data to Tree and Menu controls.

**TreeNode**  
The TreeNode class wraps arbitrary Object graphs and exposes them as TreeDataProviders.

**TreeRow**  
extends mx.controls.listClasses.SelectableRow  
The TreeRow class is the default row renderer for a Tree.

**XMLTreeDataProvider**  
The XMLTreeDataProvider class ensures that you can manipulate nodes on a tree using the getItemAt method and other methods in the XMLTreeDataProvider API, which broadcast changes to registered views.

## RESOURCES

**Flex Product Page**  
<http://www.macromedia.com/software/flex/>

**Flex Developer Center**  
<http://www.macromedia.com/devnet/flex/>

**Matt Chotin (Macromedia)**  
<http://www.markme.com/mchotin/>

**Christophe Coenraets (Macromedia)**  
<http://www.coenraets.com>

**Brandon Purcell (Macromedia)**  
<http://www.markme.com/cc/>

**iteration:two**  
<http://www.richinternetapps.com/index.html>

**David Bisset**  
<http://www.flex-mx.com/>

**Waldo Smeets**  
<http://www.waldosmeets.com/index.cfm?categoryID=27>

**Flexcoders Mailing List**  
<mailto:flexcoders-subscribe@yahoo.com>

**German Resources**

**Sven Claar**  
<http://www.mxug.de/flex>

**Kai Koenig**  
[http://www.bloginblack.de/archives/cat\\_flex\\_royale.cfm](http://www.bloginblack.de/archives/cat_flex_royale.cfm)

**German Flex-Discussion Mailing List**  
<mailto:flex-discussion-subscribe@yahoo.com>

## mx.containers.accordionclasses

**AccordionHeader**  
extends mx.controls.Button  
The AccordionHeader class defines the appearance of the navigation buttons of accordions.