Creating a Simple Accordion

In this tutorial, you learn how to add an Ajax Control Toolkit Accordion to a page and show three panes of content. There are four steps: (1) Add a ToolkitScriptManager (2) Add an Accordion (3) Add AccordionPanes (4) Add Accordion styles.  
  
To learn how to install the Ajax Control Toolkit, see the [Ajax Control Toolkit](http://www.asp.net/ajaxlibrary/act.ashx) page.

Add a ToolkitScriptManager

Before you can use any of the Ajax Control Toolkit controls in a page, you first need to add a ToolkitScriptManager to the page. You can drag the ToolkitScriptManager from the Visual Studio Toolbox window onto the page. The ToolkitScriptManager is located in the**Ajax Control Toolkit** tab under the Toolbox.

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1. **<asp:ToolkitScriptManager** ID="ToolkitScriptManager1" runat="server"**>**
2. **</asp:ToolkitScriptManager>**

Add an Accordion

Next, in source view, you need to add an Accordion control. You can drag the Accordion control from the Toolbox or type the tag yourself:

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1. **<asp:ToolkitScriptManager** ID="ToolkitScriptManager1" runat="server"**>**
2. **</asp:ToolkitScriptManager>**
4. **<asp:Accordion**
5. ID="Accordion1"
6. runat="server"**>**
7. **</asp:Accordion>**

Add AccordionPanes

Next, in source view, add one or more AccordionPane controls. The Accordion displays a single AccordionPane at a time. Notice that each AccordionPane contains both a header and content tag.

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1. **<asp:ToolkitScriptManager** ID="ToolkitScriptManager1" runat="server"**>**
2. **</asp:ToolkitScriptManager>**
4. **<asp:Accordion**
5. ID="Accordion1"
6. runat="server"**>**
7. **<Panes>**
8. **<asp:AccordionPane** runat="server"**>**
9. **<Header>**Pane 1**</Header>**
10. **<Content>**
11. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna.
12. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus.
13. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci.
14. **</Content>**
15. **</asp:AccordionPane>**
16. **<asp:AccordionPane** ID="AccordionPane1" runat="server"**>**
17. **<Header>**Pane 2**</Header>**
18. **<Content>**
19. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna.
20. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus.
21. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci.
22. **</Content>**
23. **</asp:AccordionPane>**
24. **<asp:AccordionPane** ID="AccordionPane2" runat="server"**>**
25. **<Header>**Pane 3**</Header>**
26. **<Content>**
27. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna.
28. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus.
29. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci.
30. **</Content>**
31. **</asp:AccordionPane>**
32. **</Panes>**
33. **</asp:Accordion>**

Add Accordion Styles

An Accordion without any Cascading Style Sheet styles applied to it does not look very nice. The final step is to add one or more styles to the Accordion control:

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1. **<**%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="AccordionSimple.Default" %**>**
2. **<**%@ Register assembly="AjaxControlToolkit" namespace="AjaxControlToolkit" tagprefix="asp" %**>**
3. <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"**>**
4. **<html** xmlns="http://www.w3.org/1999/xhtml"**>**
5. **<head** runat="server"**>**
6. **<title>**Simple Accordion**</title>**
7. **<style** type="text/css"**>**
8. .accordion {
9. width: 400px;
10. }
12. .accordionHeader {
13. border: 1px solid #2F4F4F;
14. color: white;
15. background-color: #2E4d7B;
16. font-family: Arial, Sans-Serif;
17. font-size: 12px;
18. font-weight: bold;
19. padding: 5px;
20. margin-top: 5px;
21. cursor: pointer;
22. }
24. .accordionHeaderSelected {
25. border: 1px solid #2F4F4F;
26. color: white;
27. background-color: #5078B3;
28. font-family: Arial, Sans-Serif;
29. font-size: 12px;
30. font-weight: bold;
31. padding: 5px;
32. margin-top: 5px;
33. cursor: pointer;
34. }
36. .accordionContent {
37. background-color: #D3DEEF;
38. border: 1px dashed #2F4F4F;
39. border-top: none;
40. padding: 5px;
41. padding-top: 10px;
42. }
43. **</style>**
45. **</head>**
46. **<body>**
47. **<form** id="form1" runat="server"**>**
48. **<div>**
50. **<asp:ToolkitScriptManager** ID="ToolkitScriptManager1" runat="server"**>**
51. **</asp:ToolkitScriptManager>**
53. **<asp:Accordion**
54. ID="Accordion1"
55. CssClass="accordion"
56. HeaderCssClass="accordionHeader"
57. HeaderSelectedCssClass="accordionHeaderSelected"
58. ContentCssClass="accordionContent"
59. runat="server"**>**
60. **<Panes>**
61. **<asp:AccordionPane** runat="server"**>**
62. **<Header>**Pane 1**</Header>**
63. **<Content>**
64. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna.
65. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus.
66. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci.
67. **</Content>**
68. **</asp:AccordionPane>**
69. **<asp:AccordionPane** ID="AccordionPane1" runat="server"**>**
70. **<Header>**Pane 2**</Header>**
71. **<Content>**
72. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna.
73. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus.
74. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci.
75. **</Content>**
76. **</asp:AccordionPane>**
77. **<asp:AccordionPane** ID="AccordionPane2" runat="server"**>**
78. **<Header>**Pane 3**</Header>**
79. **<Content>**
80. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna.
81. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus.
82. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci.
83. **</Content>**
84. **</asp:AccordionPane>**
85. **</Panes>**
86. **</asp:Accordion>**
88. **</div>**
89. **</form>**
90. **</body>**
91. **</html>**

Notice that the page contains the definition of four Cascading Style Sheet classes named accordion, accordionHeader, accordionHeaderSelected, and accordionContent. These styles are applied to the Accordion control by setting the CssClass, HeaderCssClass, HeaderSelectedCssClass, and ContentCssClass properties.

** Accordion Description**

The Accordion is a web control that allows you to provide multiple panes and display them one at a time. It is like having several [CollapsiblePanels](http://www.ajaxcontroltoolkit.com/CollapsiblePanel/CollapsiblePanel.aspx) where only one can be expanded at a time. The Accordion is implemented as a web control that contains AccordionPane web controls. Each AccordionPane control has a template for its Header and its Content. We keep track of the selected pane so it stays visible across postbacks.

It also supports three AutoSize modes so it can fit in a variety of layouts.

* **None** - The Accordion grows/shrinks without restriction. This can cause other elements on your page to move up and down with it.
* **Limit** - The Accordion never grows larger than the value specified by its Height property. This will cause the content to scroll if it is too large to be displayed.
* **Fill** - The Accordion always stays the exact same size as its Height property. This will cause the content to be expanded or shrunk if it isn't the right size.

The Accordion is written using an extender like most of the other extenders in the AJAX Control Toolkit. The extender expects its input in a very specific hierarchy of container elements (like divs), so the Accordion and AccordionPane web controls are used to generate the expected input for the extender. The extender can also be used on its own if you provide it appropriate input.

The Accordion can also be databound. Simply specify a data source through the**DataSource** or **DataSourceID** properties and then set your data items in the HeaderTemplate and ContentTemplate properties.

** Accordion Properties**

The control above is initialized with this code. The *italic* properties are optional:

<ajaxToolkit:Accordion

*ID*="MyAccordion"

runat="Server"

*SelectedIndex*="0"

*HeaderCssClass*="accordionHeader"

*HeaderSelectedCssClass*="accordionHeaderSelected"

*ContentCssClass*="accordionContent"

*AutoSize*="None"

*FadeTransitions*="true"

*TransitionDuration*="250"

*FramesPerSecond*="40"

*RequireOpenedPane*="false"

*SuppressHeaderPostbacks*="true">

***<Panes>***

<ajaxToolkit:AccordionPane

*HeaderCssClass*="accordionHeader"

*HeaderSelectedCssClass*="accordionHeaderSelected"

*ContentCssClass*="accordionContent">

<Header> . . . </Header>

<Content> . . . </Content>

</ajaxToolkit:AccordionPane>

.

.

.

***</Panes>***

*<HeaderTemplate>...</HeaderTemplate>*

*<ContentTemplate>...</ContentTemplate>*

</ajaxToolkit:Accordion>

* **SelectedIndex** - The AccordionPane to be initially visible
* **HeaderCssClass** - Name of the CSS class to use for the headers. This can be either applied to the Accordion as a default for all AccordionPanes, or an individual AccordionPane.
* **HeaderSelectedCssClass** - Name of the CSS class to use for the selected header. This can be either applied to the Accordion as a default for all AccordionPanes, or an individual AccordionPane.
* **ContentCssClass** - Name of the CSS class to use for the content. This can be either applied to the Accordion as a default for all AccordionPanes, or an individual AccordionPane.
* **FadeTransitions** - True to use the fading transition effect, false for standard transitions.
* **TransitionDuration** - Number of milliseconds to animate the transitions
* **FramesPerSecond** - Number of frames per second used in the transition animations
* **AutoSize** - Restrict the growth of the Accordion. The values of the AutoSize enumeration are described above.
* **RequireOpenedPane** - Prevent closing the currently opened pane when its header is clicked (which ensures one pane is always open). The default value is true.
* **SuppressHeaderPostbacks** - Prevent the client-side click handlers of elements inside a header from firing (this is especially useful when you want to include hyperlinks in your headers for accessibility)
* **Panes** - Collection of AccordionPane controls
* **HeaderTemplate** - The Header template contains the markup that should be used for an pane's header when databinding
* **ContentTemplate** - The Content template contains the markup that should be used for a pane's content when databinding
* **DataSource** - The data source to use. DataBind() must be called.
* **DataSourceID** - The ID of the data source to use.
* **DataMember** - The member to bind to when using a DataSourceID

** Accordion Known Issues**

The AutoSize "Limit" mode works exactly the same as the "Fill" mode for Internet Explorer 6 and 7 because they do not support the max-height CSS property.

If you place the Accordion inside a <table> tag and have FadeTransitions set to true in Internet Explorer 6, it will affect the spacing between Accordion Panes.

Also, when viewing the demo in Internet Explorer 6, maximizing the browser at higher resolutions like 1600 x 1200 will cause the transitions to animate slower than at lower resolutions like 1280 x 1024.

** AlwaysVisibleControl Description**

The AlwaysVisibleControl is a simple extender allowing you to pin controls to the page so that they appear to float over the background body content when it is scrolled or resized. It targets any ASP.NET control and always keeps the position a specified distance from the desired horizontal and vertical sides.

To avoid having the control flash and move when the page loads, it is recommended that you absolutely position the control in the desired location in addition to attaching the extender.

** AlwaysVisibleControl Properties**

The always visible extender has been initialized with these properties. The properties in*italics* are optional.

<ajaxToolkit:AlwaysVisibleControlExtender ID="ace" runat="server"

TargetControlID="timer"

*VerticalSide*="Top"

*VerticalOffset*="10"

*HorizontalSide*="Right"

*HorizontalOffset*="10"

*ScrollEffectDuration*=".1"/>

* **TargetControlID** - ID of control for this extender to always make visible
* **HorizontalOffset** - Distance to the HorizontalSide edge of the browser in pixels from the same side of the target control. The default is 0 pixels.
* **HorizontalSide** - Horizontal edge of the browser (either Left, Center, or Right) used to anchor the target control. The default is Left.
* **VerticalOffset** - Distance to the VerticalSide edge of the browser in pixels from the same side of the target control. The default is 0 pixels.
* **VerticalSide** - Vertical edge of the browser (either Top, Middle, or Bottom) used to anchor the target control. The default is Top.
* **ScrollEffectDuration** - Length in seconds of the scrolling effect to last when the target control is repositioned. The default is .1 second.