

# ASP.NET Web Server Controls (Rich Controls)

## ➤ AdRotator Control:

The **AdRotator** control presents ad images that, when clicked, navigate to a new Web location. Each time the page is loaded into the browser, an ad is randomly selected from a predefined list. The following sample illustrates using the **AdRotator** control.

This control uses an XML file to store the ad information. The XML file must begin and end with an <Advertisements> tag. Inside the <Advertisements> tag there may be several <Ad> tags which defines each ad.

The predefined elements inside the <Ad> tag are listed below:

Element	Description
<ImageUrl>	Optional. The path to the image file
<NavigateUrl>	Optional. The URL to link to if the user clicks the ad
<AlternateText>	Optional. An alternate text for the image
<Keyword>	Optional. A category for the ad
<Impressions>	Optional. The display rates in percent of the hits

### • Syntax:

```
<asp:AdRotator AdvertisementFile="Ad1.xml"
runat="server" OnAdCreated="change_url"
target="_blank" />
```

### • Properties:

Property	Description	.NET
AdvertisementFile	The path to the XML file that contains ad information	1.0
AlternateTextField	A data field to use instead of the Alt text for an advertisement	2.0
ImageUrlField	A data field to use instead of the ImageUrl attribute for an advertisement	2.0
KeywordFilter	A filter to limit ads after categories	1.0
NavigateUrlField	A data field to use instead of the NavigateUrl attribute for an advertisement	2.0
runat	Specifies that the control is a server control. Must be set to "server"	1.0
Target	Where to open the URL	1.0

- **Examples**

### **AdRotator**

In this example we declare an AdRotator control in an .aspx file. Then we create an event handler for the AdCreated event, in the .aspx file, to override the value of the NavigateUrl element in the XML file.

### **ASP.NET Source Code:**

```
<script runat="server">
  Sub change_url(sender As Object, e As AdCreatedEventArgs)
    e.NavigateUrl="http://www.w3schools.com"
  End Sub
</script>

<html>
<body>

<form runat="server">
<asp:AdRotator AdvertisementFile="Ad1.xml"
runat="server" OnAdCreated="change_url"
target="_blank" />
</form>

<p><a href="ad1.xml" target="_blank">View XML file</a></p>

</body>
</html>
```

### **Ad1.xml**

```
<Advertisements>
<Ad>
<ImageUrl>/banners/w6.gif</ImageUrl>
<NavigateUrl>http://www.w3schools.com</NavigateUrl>
<AlternateText>W3Schools Main Site</AlternateText>
<Impressions>50</Impressions>
<Keyword>elearning</Keyword>
</Ad>
<Ad>
<ImageUrl>/banners/rd_xhtml.jpg</ImageUrl>
<NavigateUrl>http://www.w3schools.com/xhtml/default.asp</NavigateUrl>
<AlternateText>XHTML Tutorial</AlternateText>
<Impressions>50</Impressions>
<Keyword>XHTML</Keyword>
</Ad>
</Advertisements>
```

## ➤ Calendar Control:

### ▪ Definition and Usage

The Calendar control is used to display a calendar in the browser.

This control displays a one-month calendar that allows the user to select dates and move to the next and previous months.

### ▪ Syntax:

```
<asp:Calendar DayNameFormat="Full" runat="server"  
SelectionMode="DayWeekMonth" OnSelectionChanged="Date_Selected"  
SelectMonthText="<*>"  
SelectWeekText="Week"/>
```

```
</asp:Calendar>
```

### ▪ Properties

Property	Description	.NET
Caption	The caption of the calendar	2.0
CaptionAlign	The alignment of the caption text	2.0
CellPadding	The space, in pixels, between the cell walls and contents	1.0
CellSpacing	The space, in pixels, between cells	1.0
DayHeaderStyle	The style for displaying the names of the days	1.0
DayNameFormat	The format for displaying the names of the days	1.0
DayStyle	The style for displaying days	1.0
FirstDayOfWeek	What should be the first day of week	1.0
NextMonthText	The text displayed for the next month link	1.0
NextPrevFormat	The format of the next and previous month links	1.0
NextPrevStyle	The style for displaying next and previous month links	1.0
OtherMonthDayStyle	The style for displaying days that are not in the current month	1.0
PrevMonthText	The text displayed for the previous month link	1.0
runat	Specifies that the control is a server control. Must be set to "server"	1.0
SelectedDate	The selected date	1.0
SelectedDates	The selected dates	1.0
SelectedDayStyle	The style for selected days	1.0
SelectionMode	How a user is allowed to select dates	1.0
SelectMonthText	The text displayed for the month selection link	1.0

SelectorStyle	The style for the month and weeks selection links	1.0
SelectWeekText	The text displayed for the week selection link	1.0
ShowDayHeader	A Boolean value that specifies whether the days of the week header should be shown	1.0
ShowGridLines	A Boolean value that specifies whether the grid lines between days should be shown	1.0
ShowNextPrevMonth	A Boolean value that specifies whether the next and previous month links should be shown	1.0
ShowTitle	A Boolean value that specifies whether the title of the calendar should be shown	1.0
TitleFormat	The format for the title of the calendar	1.0
TitleStyle	The style of the title of the calendar	1.0
TodayDayStyle	The style for today's date	1.0
TodaysDate	Today's date	1.0
UseAccessibleHeader	Specifying whether to use the <th> element for the day headers instead of the <td> element	2.0
VisibleDate	The date that specifies the month that is currently visible in the calendar	1.0
WeekendDayStyle	The style for weekends	1.0
OnDayRender	The name of the function to be executed when each day cell is created	
OnSelectionChanged	The name of the function to be executed when the user selects a day, week, or month	
OnVisibleMonthChanged	The name of the function to be executed when the user navigates to a different month	

▪ **Example:**

```
<script language="C#" runat="server">

    void Date_Selected(object s, EventArgs e) {

        switch (Calendar1.SelectedDates.Count) {

            case (0):    //None
                Label1.Text = "No dates are currently selected";
                break;
            case (1):    //Day
                Label1.Text = "The selected date is " +
Calendar1.SelectedDate.ToShortDateString();
                break;
            case (7):    //Week
                Label1.Text = "The selection is a week beginning "
+ Calendar1.SelectedDate.ToShortDateString();
                break;
            default:    //Month
                Label1.Text = "The selection is a month beginning "
+ Calendar1.SelectedDate.ToShortDateString();
                break;
        }
    }
}
```

```

    }
}
</script>

<html>
<body>

<form runat="server">
<asp:Calendar DayNameFormat="Full" runat="server"
SelectionMode="DayWeekMonth" OnSelectionChanged="Date_Selected"
SelectMonthText="<*>"
SelectWeekText="Week"/>
    <SelectorStyle BackColor="#f5f5f5" />
</asp:Calendar>
<asp:Label id=Label1 runat="server" />
</form>

</body>
</html>

```

## ▪ Output:

### Selection Link Text

<a href="#">Jul</a>	August 2009						<a href="#">Sep</a>
month	Sun	Mon	Tue	Wed	Thu	Fri	Sat
week	<a href="#">26</a>	<a href="#">27</a>	<a href="#">28</a>	<a href="#">29</a>	<a href="#">30</a>	<a href="#">31</a>	<a href="#">1</a>
week	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a>
week	<a href="#">9</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>
week	<a href="#">16</a>	<a href="#">17</a>	<a href="#">18</a>	<a href="#">19</a>	<a href="#">20</a>	<a href="#">21</a>	<a href="#">22</a>
week	<a href="#">23</a>	<a href="#">24</a>	<a href="#">25</a>	<a href="#">26</a>	<a href="#">27</a>	<a href="#">28</a>	<a href="#">29</a>
week	<a href="#">30</a>	<a href="#">31</a>	<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>

The selected date is 7/26/2009