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RadAjaxLoadingPanel vs. Ajax Toolkit's UpdatePanelAnimationExtender

Design time support

Feature	Additional Information	RadAjaxLoadingPanel	UpdatePanelAnimationExtender
Smart Tag		Yes	Yes (“Add Extender” option via the UpdatePanel tag)
Setting Skin		Yes	No

Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
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Appearance

Feature	Additional Information	RadAjaxLoadingPanel	UpdatePanelAnimationExtender
Skins	Applying skins to the control	Yes	No
Control Type		Separate control (visible in the Designer)	Control extender (invisible; attached to the UpdatePanel)
Built-in animation		Yes	Yes
Transparency		Yes	No
BackgroundPosition		Yes	Yes(Not directly set by property but in the animation tag settings)
Ability to set custom loading image		Yes	Yes
IsSticky		Yes	No
Timing		Yes(InitialDelayTime and MinDisplayTime)	No

properties)

Additional Features

Additional Features	Additional Information	RadAjaxLoadingPanel	UpdatePanelAnimationExtender
Explicitly Show and Hide		Yes	No

RadAjaxLoadingPanel online demo: [\[click here\]](#)

RadAjaxLoadingPanel documentation: [\[click here\]](#)

RadAsyncUpload vs. Ajax Toolkit's AsyncFileUpload

Design time support

Feature	Additional Information	RadAsyncUpload	Ajax Toolkit AsyncFileUpload
Smart Tag		Yes	Yes
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadAsyncUpload	Ajax Toolkit AsyncFileUpload
Skins	Applying skins to the control	Yes	Yes
ToolTip (if applicable)	The text displayed when the mouse pointer hovers over the Web server control. (inherited from WebControl)	Yes	Yes
Right-To-Left Support		Yes	Yes
InputSize	Set this property to an integer value to add columns to the input element	Yes	No

Server-Side API

Event	Additional Information	RadAsyncUpload	Ajax Toolkit AsyncFileUpload
FileExists	Occurs when the control is saving its files to a target folder and a file cannot be saved because the OverwriteExistingFiles property is False and the target folder already has a file with the same name.	Yes	No

ValidatingFile	Checks an uploaded file using its integrated file validation .	Yes	Yes (UploadedFileError)
FileUploaded	Fired on the server side when the file successfully uploaded	Yes	Yes (UploadedComplete)

Method	Additional Information	RadAsyncUpload	Ajax Toolkit AsyncFileUpload
SaveAs	Saves the content of the uploaded file	Yes	Yes

Client-Side API

Event	Additional Information	RadAsyncUpload	Ajax Toolkit AsyncFileUpload
ClientAdded	Occurs when a new row has just been added to the RadUpload control	Yes	No
ClientAdding	Occurs when a new row is about to be added to the RadUpload control.	Yes	No
ClientDeleting	Occurs when a row is about to be deleted in response to the Remove button or a call to the deleteFileInputAt() method.	Yes	No

ClientFileSelected	Occurs when a file is selected in a file input control: either when the control loses focus after the user types in a value, or when the user selects a file using the browser.	Yes	No
ClientFileUploaded	Occurs when a new file has just been uploaded.	Yes	Yes (ClientUploadComplete)
ClientFileUploadFailed	Occurs when a new file fails to upload.	Yes	Yes (ClientUploadError)
ClientFileUploading	Occurs when a new file is about to be uploaded.	Yes	Yes (ClientUploadStarted)
ClientValidationFailed	Occurs when validation did not pass.	Yes	No

Method	Additional Information	RadAsyncUpload	Ajax Toolkit AsyncFileUpload
Various methods for controlling the control look and behavior		Yes(rich client-side API)	No

Additional Features

Additional Features	Additional Information	RadAsyncUpload	Ajax Toolkit
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AsyncFileUpload

Validation	Automatically validate files using the AllowedFileExtensions properties and the MaxFileSize property	Yes	No
Possibility to extend the RadAsyncUpload handler	Example scenario : Saving images directly to a database, without using temporary folder.	Yes	No
Multiple File Selection	Multiple file selection support enabled. This is done by setting the MultipleFileSelection = "Automatic" property	Yes	No

RadButton for ASP.NET AJAX vs. ASP.NET Button

Design time support

Feature	Additional Information	RadButton	ASP.NET Button
Smart Tag		Yes	No
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax	Yes	No

Resources

Appearance

Feature	Additional Information	RadButton	ASP.NET Button
Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own most often through CSS)
ToolTip	The text displayed when the mouse pointer hovers over the Web server control. (inherited from WebControl)	Yes	Yes
Images	Images (icons) rendered on the button.	Yes (The icons can be specified by providing URLs to the images or specifying CSS classes. Demo1 , Demo2)	No
Right-To-Left Support		Yes (Set dir="rtl" to the body, or style="direction: rtl" to the parent element)	Yes (Set style="direction: rtl" to the parent element)

Server-Side API

Event	Additional Information	RadButton	ASP.NET
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			Button
Command	Raised when the control is clicked on postbacks. Raised before the Click event	Yes	Yes
Click	Raised when the control is clicked on postbacks. This event is subsequent to the Command event	Yes	Yes

Additional Features

Additional Features	Additional Information	RadButton	ASP.NET Button
Causes Validation	The control triggers client and server validation if there are validator controls on the page.	Yes	Yes
Setting Text on the client	The Text of the button is set on the client and persists between postbacks	Yes	No (After a postback the text is recovered to the original value)
Control postbacks	Disable the postbacks so the control is used on the client	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)	Yes (But the client-side click event should be handled to cancel the postback)
Setting Command Argument and Name on the client	The CommandArgument and CommandName of the button and persists between postbacks	Yes	No

SplitButton functionality	The button has two visually different parts (buttons), where one is main and the other enhances the usability of the main button.	Yes (An event argument is passed to the Click and Command event handler that indicates which button was clicked. Demo)	No
Embedded icons	Predefined set of images that make the control more intuitive.	Yes (Demo)	No

RadButton for ASP.NET AJAX vs. ASP.NET CheckBox

Design time support

Feature	Additional Information	RadButton	ASP.NET CheckBox
Smart Tag		Yes	No
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadButton	ASP.NET CheckBox
Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own most often through CSS)
ToolTip	The text displayed when the mouse pointer hovers over the Web server control. (inherited from WebControl)	Yes	Yes
Images	Images (icons) rendered on the button.	Yes (The icons can be specified by providing URLs to the images or specifying CSS classes. Demo1 , Demo2)	No
Right-To-Left Support		Yes (Set dir="rtl" to the body, or style="direction: rtl" to the parent element)	Yes (Set style="direction: rtl" to the parent element)

Server-Side API

Event	Additional Information	RadButton	ASP.NET CheckBox
Command	Raised when the control is clicked on postbacks. Raised before the Click event	Yes	No

Click	Raised when the control is clicked on postbacks. This event is subsequent to the Command event	Yes	No
CheckedChanged	Raised on postbacks if the value of the Checked property was changed	Yes	Yes

Additional Features

Additional Features	Additional Information	RadButton	ASP.NET CheckBox
Three-state checkbox	There are three states: Checked, Filled and Not-Checked	Yes (Demo).	No
Fully customizable CheckBox states	Control the look and feel of the Checked and Not-Checked state.	Yes (The user can set different text for each state. The CheckBox image can be replaced with custom for every state. Different background image can be specified for each state. Different CssClass can be applied to every state. Demo)	No
CheckBox (ToggleButton) that		Yes (Demo)	No

looks like link or
standard `<input
type="button" />`

Causes Validation	The control triggers client and server validation if there are validator controls on the page.	Yes	Yes
Setting Text on the client	The Text of the button is set on the client and persists between postbacks	Yes	No (After a postback the text is recovered to the original value)
Control postbacks	Disable the postbacks so the control is used on the client	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)
CommandName and CommandArgument		Yes	No
Setting Command Argument and Name on the client	The CommandArgument and CommandName of the button and persists between postbacks	Yes	No

RadButton for ASP.NET AJAX vs. ASP.NET ImageButton

Design time support

Feature	Additional Information	RadButton	ASP.NET ImageButton
Smart Tag		Yes	No
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadButton	ASP.NET ImageButton
Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own most often through CSS)
ToolTip	The text displayed when the mouse pointer hovers over the Web server control. (inherited from WebControl)	Yes	Yes
Images	Besides the image that represents the button itself other images (icons) rendered on the button.	Yes (The icons can be specified by providing URLs to the images or specifying CSS classes. Demo1 , Demo2)	No
Right-To-Left		Yes (Set dir="rtl"	Yes (Set

Support

to the body, or
style="direction:
rtl" to the parent
element)

style="direction:
rtl" to the parent
element

Server-Side API

Event	Additional Information	RadButton	ASP.NET ImageButton
Command	Raised when the control is clicked on postbacks. Raised before the Click event	Yes	Yes
Click	Raised when the control is clicked on postbacks. This event is subsequent to the Command event	Yes	Yes

Additional Features

Additional Features	Additional Information	RadButton	ASP.NET ImageButton
Use Button as DefaultButton on ASP.NET Panel and HtmlForm		Yes	No

Open URL on the client	Specify a URL that the button will open without the need of a postback	Yes	No
Support for image sprites		Yes	No
Ability to specify Hovered image	Image shown when the user hovers the button	Yes	No
Ability to specify Pressed image	Image shown when the user pressed the button	Yes	No
Causes Validation	The control triggers client and server validation if there are validator controls on the page.	Yes	Yes
Setting Text on the client	The Text of the button is set on the client and persists between postbacks	Yes	No (After a postback the text is recovered to the original value)
Control postbacks	Disable the postbacks so the control is used on the client	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)	Yes (But the client-side click event should be handled to cancel the postback)
Setting Command Argument and Name on the client	The CommandArgument and CommandName of the button and persists between postbacks	Yes	No

Embedded icons	Predefined set of images that make the control more intuitive.	Yes (Demo)	No
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RadButton for ASP.NET AJAX vs. ASP.NET LinkButton

Design time support

Feature	Additional Information	RadButton	ASP.NET LinkButton
Smart Tag		Yes	No
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadButton	ASP.NET LinkButton
Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own most often through CSS)

ToolTip	The text displayed when the mouse pointer hovers over the Web server control. (inherited from WebControl)	Yes	Yes
Images	Images (icons) rendered on the button.	Yes (The icons can be specified by providing URLs to the images or specifying CSS classes. Demo1 , Demo2)	No
Right-To-Left Support		Yes (Set dir="rtl" to the body, or style="direction: rtl" to the parent element)	Yes (Set style="direction: rtl" to the parent element)

Server-Side API

Event	Additional Information	RadButton	ASP.NET LinkButton
Command	Raised when the control is clicked on postbacks. Raised before the Click event	Yes	Yes
Click	Raised when the control is clicked on postbacks. This event is subsequent to the Command event	Yes	Yes

Additional Features

Additional Features	Additional Information	RadButton	ASP.NET LinkButton
Use Button as DefaultButton on ASP.NET Panel and HtmlForm		Yes	No
Open URL on the client	Specify a URL that the button will open without the need of a postback	Yes	No
Causes Validation	The control triggers client and server validation if there are validator controls on the page.	Yes	Yes
Setting Text on the client	The Text of the button is set on the client and persists between postbacks	Yes	No (After a postback the text is recovered to the original value)
Control postbacks	Disable the postbacks so the control is used on the client	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)	Yes (But the client-side click event should be handled to cancel the postback)

Setting Command Argument and Name on the client	The CommandArgument and CommandName of the button and persists between postbacks	Yes	No
Embedded icons	Predefined set of images that make the control more intuitive.	Yes (Demo)	No

RadButton for ASP.NET AJAX vs. ASP.NET RadioButton

Design time support

Feature	Additional Information	RadButton	ASP.NET RadioButton
Smart Tag		Yes	No
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadButton	ASP.NET RadioButton
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Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own most often through CSS)
ToolTip	The text displayed when the mouse pointer hovers over the Web server control (inherited from WebControl)	Yes	Yes
Images	Images (icons) rendered on the button.	Yes (The icons can be specified by providing URLs to the images or specifying CSS classes. Demo1 , Demo2)	No
Right-To-Left Support		Yes (Set <code>dir="rtl"</code> to the body, or <code>style="direction: rtl"</code> to the parent element)	Yes (Set <code>style="direction: rtl"</code> to the parent element)

Server-Side API

Event	Additional Information	RadButton	ASP.NET RadioButton
Command	Raised when the control is clicked on postbacks. Raised before the Click event	Yes	No

Click	Raised when the control is clicked on postbacks. This event is subsequent to the Command event	Yes	No
CheckedChanged	Raised on postbacks if the value of the Checked property was changed	Yes	Yes

Additional Features

Additional Features	Additional Information	RadButton	ASP.NET RadioButton
Fully customizable RadioButton states	Control the look and feel of the Checked and Not-Checked state.	Yes (The user can set different text for each state. The RadioButton image can be replaced with custom for every state. Different background image can be specified for each state. Different CssClass can be applied to every state. (Demo))	No
RadioButton (ToggleButton) that looks like link or standard <code><input type="button" /></code>		Yes (Demo)	No
Causes Validation	The control triggers client and server validation if there are validator controls on the page.	Yes	Yes

Setting Text on the client	The Text of the button is set on the client and persists between postbacks	Yes	No (After a postback the text is recovered to the original value)
Control postbacks	Disable the postbacks so the control is used on the client	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)
CommandName and CommandArgument		Yes	No
Setting Command Argument and Name on the client	The CommandArgument and CommandName of the button and persists between postbacks	Yes	No

RadButton for ASP.NET AJAX vs. AjaxToolkit ToggleButton extender

Design time support

Feature	Additional Information	RadButton	AjaxToolkit ToggleButton
Smart Tag		Yes	No

Setting Skin		Yes	No
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Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
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Appearance

Feature	Additional Information	RadButton	AjaxToolkit ToggleButton
Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	No
ToolTip	The text displayed when the mouse pointer hovers over the Web server control. (inherited from WebControl)	Yes	Yes (Provided from the Checkbox or RadioButton)
Images	Images (icons) rendered on the button.	Yes (The icons can be specified by providing URLs to the images or specifying CSS classes. Demo1 , Demo2)	Yes
Right-To-Left Support		Yes (Set dir="rtl" to the body, or style="direction: rtl" to the parent element)	No

Server-Side API

Event	Additional Information	RadButton	AjaxToolkit ToggleButton
Command	Raised when the control is clicked on postbacks. Raised before the Click event	Yes	No
Click	Raised when the control is clicked on postbacks. This event is subsequent to the Command event	Yes	No
CheckedChanged	Raised on postbacks if the value of the Checked property was changed	Yes	Yes (Provided by the CheckBox or RadioButton)

Additional Features

Additional Features	Additional Information	RadButton	AjaxToolkit ToggleButton
Support for more than 2 (two) toggle states		Yes (The user can specify as many toggle states as needed. Demo)	No
Fully customizable toggle states		(The user can set different text for each state. Different Primary and Secondary Icons can be specified for each state. Different	No (The user can only specify images)

		background image can be specified for each state. Different CssClass can be applied to every state. Demo)	
Support for image sprites		Yes	No
Support for hovered and pressed images		Yes	No
ToggleButton that looks like <code><input type="button" /></code> and link button		Yes	No
Causes Validation	The control triggers client and server validation if there are validator controls on the page.	Yes	Yes (Provided by the CheckBox or RadioButton)
Setting Text on the client	The Text of the button is set on the client and persists between postbacks	Yes	No
Control postbacks	Disable the postbacks so the control is used on the client	Yes (AutoPostBack = false, will disable the postbacks when the button is clicked)	Yes (Provided by the CheckBox or RadioButton)
Setting Command Argument and Name on the client	The CommandArgument and CommandName of the button and persists between postbacks	Yes	No

Embedded icons	Predefined set of images that make the control more intuitive.	Yes (Demo)	No
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RadCalendar vs. ASP.NET Calendar vs. Ajax Toolkit's Calendar

Design time support

Feature	Additional Information	RadCalendar	ASP.NET Calendar	Ajax Toolkit Calendar
Smart Tag		Yes	Yes	No
Setting Skin		Yes	No	No
AutoFormat		No	Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No	No
Enable AutoPostBack		Yes	No	No
Enable MultiSelect		Yes	No	No
SpecialDays Collection Editor		Yes	No	No
Ajax Resources	Provides options to add ScriptManager, RadScriptManager, RadAjaxManager,	Yes	No	No

RadStyleSheetManager

HeaderTemplate	Yes	No	No
FooterTemplate	Yes	No	No

Appearance

Feature	Additional Information	RadCalendar	ASP.NET Calendar	Ajax Toolkit Calendar
Skins	Applying skins to the control	Yes(many predefined Skins that could be easily modified)	Yes(has a few predefined schemes and)	Yes(by using custom CSS classes)
ToolTip	The text displayed when the mouse pointer hovers over the Web server control / calendar day.	Yes	Yes	Yes
Images	Images for the Navigation, FastNavigation buttons, and ViewSelector	Yes	No	No
Right-To-Left Support		Yes(dir="rtl")	No	No
DayTemplates/ Special Days		Yes	No	No
Multi-Month Layout		Yes	No	No

Server-Side API

Event	Additional Information	RadCalendar	ASP.NET Calendar	Ajax Toolkit Calendar
DayRender	Raised after all the cells of the day matrix have been generated and just before a cell is rendered to the client	Yes	Yes	No
DefaultViewChanged	Raised when the current month is changed	Yes	No	No
HeaderCellRender	Raised after all the row and column headers and the view selector have been generated and just before one of these header cells is rendered to the client	Yes	No	No
SelectionChanged	Raised when the user changes the current selection by selecting or unselecting a date in the calendar	Yes	Yes	No
ResolveControlID		No	No	Yes

Client-Side API

Method	Additional Information	RadCalendar	ASP.NET Calendar	Ajax Toolkit Calendar
Various methods for controlling the control look and behavior		Yes(rich client-side API)	No	No

Additional Features

Additional Features	Additional Information	RadCalendar	ASP.NET Calendar	Ajax Toolkit Calendar
Sharing calendar between multiple date picker		Yes	No	No
Fast navigation between months	Enables you to change the default month view with a few months at once	Yes	No	No
Month/Year fast navigation	Enables you to select specific month and year easier	Yes	No	Yes

RadColorPicker for ASP.NET AJAX

VS.

Ajax Toolkit's ColorPickerExtender

Design time support

Feature	Additional Information	RadColorPicker	ColorPickerExtender
Smart Tag		Yes	No
Setting Skin		Yes	No

Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
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Appearance

Feature	Additional Information	RadColorPicker	ColorPickerExtender
Skins	Applying skins to the control	Yes (predefined skins that could be easily modified)	Yes (by using custom CSS class)
Customizing the UI		Yes (The RadColorPicker serverside properties and the clientside API provide a number of options for customizing the look and feel of the control)	No
Right-To-Left Support		Yes	No

Server-Side API

Method / Event	Additional Information	RadColorPicker	ColorPickerExtender
Various Properties and Methods controlling the control's look and behavior		Yes	No (No server-side API)
ColorChanged Event		Yes	No (No server-side API)

Client-Side API

Method / Event	Additional Information	RadColorPicker	ColorPickerExtender
showPalette / hidePalette	Methods used to show / hide the color palette	Yes	No
Various Client-side events		Yes (OnClientLoaded, OnClientColorSelecting, OnClientColorChange)	Yes (OnClientColorSelectionChanged)

Additional Features

Additional Features	Additional Information	RadColorPicker	ColorPickerExtender
Preset Color Palettes		Yes (25 different palettes)	No
Different Palette Modes		Yes (4 different modes Web Palette, RGB Sliders, HSV, HSB)	No
Choose color by HEX value		Yes	Yes
Choose color by RGB value		Yes	No
Choose color by HSB value		Yes	No
Choose color by HSV value		Yes	No
No Color Button		Yes	No

Show Color Palette button		Yes	Yes (by assigning an external button)
Preview Color Palette		Yes	Yes (by assigning to an external element)
Customizable color palette	Possibility to modify the size of color boxes / number of items per row	Yes	No
Bind to a TextBox	Extend a standard asp:textbox to display/accept the color's HEX value and display the colorpalette when focused	No	Yes

RadComboBox VS ASP.NET DropDownList VS ASP.Net Toolkit ComboBox

Design time support

Feature	Additional Information	RadComboBox	ASP.NET DropDownList	ASP.NET AJAX Toolkit ComboBox
Smart Tag		Yes	Yes	Yes
Setting Skin	AutoFormat	Yes	No	Yes

Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No	No
Edit Items	Adding items	Yes	Yes	Yes
Item Collection Editor		Yes	Yes	Yes
Edit Templates		Yes	No	No
Choose DataSource		Yes	Yes	Yes
All properties can be set in the properties grid		Yes	Yes	Yes

Appearance

Feature	Additional Information	RadComboBox	ASP.NET DropDownList	ASP.NET AJAX Toolkit ComboBox
Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes(the skin has to be built on your own)	Yes(four skins provided with the control)
BackColor, BorderColor, BorderStyle, BorderWidth, CssClass, Font,	Styling properties applied to each combobox	Yes (the properties are members of the RadComboBoxItem class)	Yes (the properties are members of the DropDownList class)	Yes(the properties are members of the ComboBox class)

ForeColor	item			
ToolTip	The text displayed when the mouse pointer hovers over the Web server control / combobox item. (inherited from WebControl)	Yes (Tooltip can be set for the ComboBox and for every item).	Yes (Tooltip can be set only for the whole dropdown list and not for its list items)	Yes (Tooltip can be set only for the whole ComboBox and not for its items)
Offsetting the drop-down area	Ability to offset the drop-down area	Yes (OffsetX, OffSetY properties)	No	No
Screen Boundaries Detection		Yes(r.a.d.combobox opens in the opposite direction when the screen boundaries are to be crossed)	No(DropDownList expands over the screen boundaries)	No
Setting explicitly the dropdown opening direction		Yes	No	No
Right-To-Left Support		Yes (dir ="rtl")	Yes (style ="directi	Yes (style ="directi

on:rtl")

on:rtl")

DataBinding

Method	Additional Information	RadComboBox	ASP.NET DropDownList	ASP.NET AJAX Toolkit ComboBox
Declarative data sources	XmlDataSource, SqlDataSource, AccessDataSource, ObjectDataSource LINQDataSource	Yes	Yes	Yes
Binding to DataTable, DataSet,		Yes	Yes	Yes

DataView, Array,
ArrayList

XML String
Binding

Yes

No

No

Context XML
File

Yes

No

No

Web Services

Load items on demand on
the client

Yes

No

No

Server-Side API

Event

Additional
Information

RadComboBox

ASP.NET
DropDownList

ASP.NET AJAX
Toolkit
ComboBox

SelectedIndexChanged

Yes

Yes

Yes

ItemsRequested

Loading items on
demand

Yes

No

No

ItemDataBound	Yes	No	No
TextChanged	Yes	Yes	Yes

Method	Additional Information	RadComboBox	ASP.NET DropDownList	ASP.NET AJAX Toolkit ComboBox
FindItemByText	Finds the first RadComboBoxItem with Text that matches the given text value	Yes	Yes (FindByText)	Yes (FindByText)
FindItemByValue	Finds the first RadComboBoxItem with Value that matches the	Yes	Yes (FindByValue)	Yes (FindByValue)

	given value			
FindItemIndexByText	Returns the index of the first RadComboBoxItem with Text that matches the given text value	Yes	No	No
FindItemIndexByValue	Returns the index of the first RadComboBoxItem with Text that matches the given value	Yes	No	No
GetXmlString	Returns the state of RadComboBox as an XML string	Yes	No	No
InvalidateClientSize	Invalidates the cached size which is calculated upon loading the ComboBox for the first time	Yes	No	No
LoadContentFile	Loads combobox items from an XML content file	Yes	No	No
LoadXml	Populates RadComboBox from an XML string	Yes	No	No

Ajax Support

RadComboBox for ASP.NET AJAX is built entirely on top of ASP.NET AJAX, utilizing its common client-side framework and programming model.

MS DropDownList experiences certain problems against MS Ajax and JS errors are often thrown.

Additional Features

- Client-Side API - RadComboBox provides rich client-side API including various client-side events. The ASP.NET DropDownList provides no client-side API.

[Client-Side Events](#)

- [Templates](#)
- [Multi-column Combo](#)
- [Load On Demand](#)
- [Virtual Scrolling and population from Web Service](#)

RadContextMenu vs. Ajax Toolkit's Hover Menu

Design time support

Feature	Additional Information	RadContextMenu	Ajax Toolkit Hover Menu
Smart Tag		Yes	No
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
Edit Items	Adding items	Yes	Yes
Item Templates		Yes	No
Choose DataSource		Yes	No
All properties can be set in the properties grid		Yes	Yes

Appearance

Feature	Additional Information	RadContextMenu	Ajax Toolkit Hover Menu
Skins	Applying skins to the control	Yes (14 skins are provided in the installation package)	No
ToolTip	The text displayed when the mouse pointer hovers over the Web server control / listBox item. (inherited from WebControl)	Yes	Yes
Rounded corners and shadows		Yes	No
Images		Yes	Yes
Right-To-Left Support		Yes	Yes
Customized Skin	The CSS class to apply to the target when the hover menu popup is visible.	Yes	Yes (HoverCssClass)
Popup Position	The position of the Menu relative to the mouse cursor (top, right, bottom, left).	No Can be compensated with the client side method: menu. ShowAt (x,y)	Yes

Properties

Properties	Additional Information	RadContextMenu	Ajax Toolkit Hover Menu
TargetControlID	The control that the extender is targeting. (only one is allowed in a tag)	No - RadContextMenu has its own items' collection	Yes
PopupControlID	The ID of the control to display when mouse is over the target control.	Yes	Yes
ContextMenuControlTarget	Identifies a target that is an ASP.NET control. This tag takes a single attribute, ControlID , which specifies the server-side ID of the target control.	Yes	No
ContextMenuDocumentTarget	Identifies the document element of the Web page as a target. That is, the context menu appears wherever the user right-clicks on the page. This tag uses no additional attributes.	Yes	No
ContextMenuElementTarget	Identifies a target that is an HTML element. This tag takes a single	Yes	No

	attribute, ElementID , which is the client-side ID of the target element.		
ContextMenuTagNameTarget		Yes	No
	Identifies as a target all HTML elements on the page with a specified tag name. This tag takes a single attribute, TagName , which is the tag name of the target elements.		
Animations		No	Yes
CollapseAnimationType		Yes	No
CollapseDelay		Yes	No
ExpandAnimationType		Yes	No
ExpandDelay		Yes	No
PopDelay	Gets or sets a number representing the time delay from when the mouse enters the target to when the popup is shown, in milliseconds.	No	Yes
		The client-side show() method can be called within setTimeout()	
HoverDelay	Gets or sets a number representing the time delay after the mouse enters the target and before the popup is shown, in milliseconds.	No	Yes
		The client-side hide() method can be called within	

setTimeout()

DataBinding

Method	Additional Information	RadContextMenu	Ajax Toolkit Hover Menu
Declarative data sources that implement IHierarchicalDataSource	XmlDataSource	Yes	No
	SiteMapDataSource	Yes	
Declarative data sources that do not implement IHierarchicalDataSource or IHierarchicalEnumerable	SqlDataSource	Yes	No
	AccessDataSource	Yes	
	ObjectDataSource	Yes	
Binding to DataTable, DataSet, DataView, Array, ArrayList		Yes	No
Web Service	Dynamically load child items through a web service	Yes	No
Context XML File		Yes	No
DataFieldID	Needed to establish menu item hierarchy	Yes	No
DataFieldParentID	Needed to establish menu item hierarchy	Yes	No
DataTextField	Populates the text property with the specified field	Yes	No

DataNavigateUrlField	Populates the NavigateUrl property with the specified field	Yes	No
DataValueField	Populates the Value property with the specified field	Yes	No

Client-Side API

Method	Additional Information	RadContext Menu	Ajax Toolkit Hover Menu
show(event)	Displays the menu as a pop-up, using the position in the DOM event that is passed as a parameter.	Yes	raiseShowing(Sys.EventArgs) - Raises the showing event
showAt(int X, int Y)	Displays the menu as a pop-up at the coordinates specified by the parameters.	Yes	Yes (OffsetX/ OffsetY property)
hide()	Hides the menu.	Yes	raiseHiding(Sys.EventArgs) - Raises the hiding event
get_targets()	Returns the array of targets to which the context menu is attached. Each target identifies an element or family of elements that cause the menu to appear when right-clicked.	Yes	No
addTargetElement()	Attaches the context menu to the specified target element.	Yes	No
removeTargetElement()	Detaches the context menu from the specified target element.	Yes	No

Event	Additional Information	RadContextMenu	Ajax Toolkit Hover Menu
OnClientShowing	Occurs immediately before the context menu appears.	Yes	Yes showing(handler)
OnClientShown	Occurs immediately after the context menu appears.	Yes	Yes shown(handler)
OnClientHidden	Occurs when the context menu disappears.	Yes	Yes hidden(handler)
OnClientHiding	Occurs immediately before the context menu disappears.	Yes	Yes hiding(handler)

Additional Features

Additional Features

Additional Information

RadContextMenu

Ajax Toolkit
Hover Menu

Links:

http://www.telerik.com/help/aspnet-ajax/menu_clientsideevents.html

<http://demos.telerik.com/aspnet-ajax/controls/examples/integration/listviewwithcontextmenu/defaultcs.aspx?product=menu>

<http://www.asp.net/ajax/ajaxcontroltoolkit/Samples/HoverMenu/HoverMenu.aspx>

http://www.asp.net/ajaxlibrary/act_HoverMenu.ashx

RadContextMenu online demo: [\[click here\]](#)

RadContextMenu documentation: [\[click here\]](#)

AjaxToolKitHoverMenu documentation: [\[click here\]](#)

AjaxToolKitHoverMenu demo: [\[click here\]](#)

RadDataPager VS. ASP.NET DataPager

Design time support

Feature	Additional Information	RadDataPager	ASP.NET DataPager
Smart Tag		Yes	Yes
Setting Skin		Yes	No
Item Collection Editor		Yes	No
Item Templates		Yes	Yes

Appearance

Feature	Additional Information	RadDataPager	ASP.NET DataPager
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Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own most often through CSS)
ToolTip (Built-in button tooltips)	The text displayed when the mouse pointer hovers over the 'First', 'Next', 'Previous', 'Last' buttons	Yes	No
Image page fields support		No	Yes
Right-To-Left Support		No	Yes
Template editing		Yes	Yes
Predefined pager modes		Yes	Yes

Server-Side API

Event	Additional Information	RadDataPager	ASP.NET DataPager
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OnCommand	Fired when any button is clicked or containing control value is changed in RadDataPager control.	Yes	Yes (DataPager supports OnPagerCommand event for its TemplatePagerField only)
FieldCreating	Fired before a field is created.	Yes	No
FieldCreated	This event is fired after a pager field is created.	Yes	No
OnTotalRowCountRequest	This event is fired only when RadDatePager is used without container control.	Yes	No
Method	Additional Information	RadDataPager	ASP.NET DataPager
FireCommand	Can be used for manually triggering commands in code rather than clicking the pager buttons, etc.	Yes	No

Additional Features

Additional Features	Additional	RadDataPager	ASP.NET DataPager
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Information

Predefined command names	Firing server events by buttons residing in the RadDataPager.	Yes	No
SliderField		Yes	No
NumericPageSizeField		Yes	No
PageSizeField		Yes	No
GoToPageField		Yes	No

RadDataPager resources

[Online documentation](#)

[Online examples](#)

RadEditor for ASP.NET AJAX vs. Ajax Toolkit's HTML Editor

Design time support

Feature	Additional Information	RadEditor	HTML Editor
Smart Tag		Yes	No

Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadEditor	HTML Editor
Skins	Applying skins to the control	Yes (predefined skins that could be easily modified)	Yes (by using custom CSS class)
Customizing the UI		Yes (The RadEditor serverside properties and the clientside API provide a number of options for customizing the look and feel of the control)	Yes (by using custom CSS classes)
Right-To-Left Support		Yes (by applying additional CSS)	No

Server-Side API

Method	Additional Information	RadEditor	HTML Editor
EnableFilter / DisableFilter	Server-side methods for dynamically enabling/disabling content filters	Yes	No (only two public filters controlled by properties)
LoadToolsFile	Server-side methods for controlling editor's tools	Yes	No
EnsureToolsFileLoaded			
FindTool			

Client-Side API

Method	Additional Information	RadEditor	HTML Editor
Various methods for controlling the editor's look and behavior		Yes (rich client-side API)	Yes (limited)

Additional Features

Additional Features	Additional Information	RadEditor	HTML Editor
Keyboard support		Yes	Yes
Full HTML editing		Yes	No
Custom Tools	Ability to create and add custom tools to the toolbar	Yes	Yes
Different Paste Options		Yes (6 different paste options + additional stripping options)	Yes (3 different paste options)
XHTML 1.1 compliant output		Yes	Yes
Export to PDF		Yes	No
Export to RTF		Yes	No
Various Dialogs	Dialogs used to insert various items to the content of the editor	Yes (ImageManager, DocumentManager, LinkManager, SilverlightManager)	Yes (InsertLink)

		ager, XHTMLValidat or etc.)	
System Modules	Various modules offering to possibility to examine and modify the content of the editor	Yes (Statistics, TagInspector, PropertiesInsp ector,Real- time HTML View)	No

RadFilter vs. ASP.NET QueryExtender

Design time support

Feature	Additional Information	RadFilter	ASP.NET QueryExtender
Smart Tag		Yes	No
Setting Skin		Yes	No
Item Collection Editor		Yes	No
Item Templates		No	No

Appearance

Feature	Additional Information	RadFilter	ASP.NET QueryExtender
Skins	Applying skins to the control.	Yes	No
ToolTip	The text displayed when the mouse pointer hovers over the “Add Group”, “Add Expression” and “Remove” buttons.	Yes	No
Right-To-Left Support		Yes	No
Localization	Resource files as well as dedicated properties.	Yes	No

Data source controls support

Feature	Additional Information	RadFilter	ASP.NET QueryExtender
Declarative data source controls that support filtering.	LinqDataSource, EntityDataSource,	Yes	Yes
Declarative data source controls that do not support filtering.	Filterable data bound controls such as RadGrid and RadListView.	Yes	No
Dynamic data support		No	Yes

Third-party data
source controls.

No

Yes

Server-Side API

Event	Additional Information	RadFilter	ASP.NET QueryExtender
OnApplyExpressions	Raised when the user presses the "Apply" button. Essentially, this is the moment when the actual filter expression is constructed.	Yes	No
OnItemCommand	Raised when a command is issued by the control - for example when the end user adds a new filtering group.	Yes	No
OnFieldEditorCreated	Raised when a filtering editor is created. The user can use this event to change some properties of the created editor.	Yes	No
OnFieldEditorCreating	Raised before a filtering editor is created.	Yes	No

Method	Additional Information	RadFilter	ASP.NET QueryExtender
FireApplyCommand	Explicitly fires the "OnApplyExpressions" event.	Yes	No
LoadSettings	Loads the provided state (as parameter passed to the method) in the control.	Yes	No
SaveSettings	Serialize the control's state.	Yes	No
RecreateControl	Recreates the control after user changes some of its properties.	Yes	No

Additional Features

Additional Features	Additional Information	RadFilter	ASP.NET QueryExtender
AllowFilterOnBlur	Get / set whether RadFilter should post back when value in editor changes.	Yes	No
ExpressionPreviewPosition	Sets whether the built filtering expression should be displayed, as well as its position.	Yes	No
Built in validation	Depending on the field editor type, RadFilter	Yes	No

ensures that correct data is entered before the filtering operation is triggered.

RadFilter resources

[Online documentation](#)

[Online examples](#)

[Video: Using RadFilter to filter datasource controls](#)

Telerik RadGrid vs. ASP.NET GridView

Design time support

Feature	Additional Information	RadGrid	ASP.NET GridView
Smart Tag		Yes	Yes
Setting Skin		Yes	Yes
Learning center (accessible via the SmartTag)	Links to the help resources. Search engine. Ajax Resources.	Yes	No

Appearance

Feature	Additional Information	RadGrid	ASP.NET GridView
Skins	Applying skins to the control	Yes	Yes
Right-To-Left Support		Yes	Yes
CommandItem		Yes	No
AutoGenerateEditButton		Yes /AutoGenerateEditColumn/	Yes
AutoGenerateDeleteButton		Yes /AutoGenerateDeleteColumn/	Yes

Column Templates

Feature	Additional Information	RadGrid	ASP.NET GridView
ItemTemplate / AlternatingItemTemplate		Yes	Yes
HeaderTemplate		Yes	Yes
FooterTemplate		Yes	Yes
FilterTemplate		Yes	No
EditItemTemplate		Yes	Yes
InsertItemTemplate		Yes	Yes

Other Templates

Feature	Additional Information	RadGrid	ASP.NET GridView
PagerTemplate		Yes	Yes
CommandItemTemplate		Yes	No
NestedViewTemplate		Yes	No
ItemTemplate	Global ItemTemplate	Yes	No
EditItemTemplate	Global EditItemTemplate	Yes	No
EmptyDataTemplate		Yes /NoRecordsTemplate/	Yes

DataBinding

Method	Additional Information	RadGrid	ASP.NET GridView
Declarative data sources	XmlDataSource, SqlDataSource, AccessDataSource, ObjectDataSource, LinqDataSource, EntityDataSource, OpenAccessDataSource, etc	Yes	Yes
Binding to DataTable, DataSet, DataView, Array, ArrayList		Yes	Yes

Advanced data-binding	Using dedicated data-binding event	Yes	No
Client-side data-binding	Through web service, page methods, or manually	Yes	No

Server-Side API – Events

Event	Additional Information	RadGrid	ASP.NET GridView
DataBinding	Fires when the control's data binding expressions are to be evaluated	Yes	Yes
DataBound	Fires after the control has been databound	Yes	Yes
NeedDataSource	Fires when the grid is about to be bound and the data source must be assigned	Yes	No
PageIndexChanged	Fires when the "Page" command bubbles	Yes	Yes
PageIndexChanging		No	Yes

RowCommand	Fires when any command bubbles from within a grid item (row)	Yes /ItemCommand/	Yes
RowCancelingEdit	Fires when the "Cancel" command bubbles	Yes /CancelCommand/ /	Yes
RowCreated	Fires when an item is created, just before that item has been initialized	Yes /ItemCreated/	Yes
RowDataBound	Fires when an item is bound to data	Yes /ItemDataBound/	Yes
RowDeleted	Fires after an automatic delete operation	Yes /ItemDeleted/	Yes
RowDeleting	Fires when the "Delete" command bubbles	Yes /DeleteCommand/	Yes
RowEditing	Fires when the "Edit" command bubbles	Yes /EditCommand/	Yes
RowUpdated	Fires after an automatic update operation	Yes /ItemUpdated/	Yes
RowUpdating	Fires when the "Update" command bubbles	Yes /UpdateCommand/ /	Yes

SelectedIndexChanging		No	Yes
SelectedIndexChanged	Fires when the current selection changes	Yes	Yes
Sorted		No	Yes
Sorting	Fires when the "Sort" command bubbles	Yes /SortCommand/	Yes
ColumnCreated	Fires when a column is created	Yes	No
ColumnCreating	Fires when a column is about to be created	Yes	No
ColumnsReorder	Fires when a columns reorder action has been performed	Yes	No /does not support column reordering/
DetailTableDataBind	Fires when a detail-table in the hierarchy needs data to bound	Yes	No /does not support hierarchy/
ExcelExportCellFormatting	Fires when a grid is exporting to HTML Excel format	Yes	No /does not support exporting/
GridExporting	Fires when a grid is exporting	Yes	No /does not support exporting/

PdfExporting	Fires before RadGrid's HTML is transformed to PDF	Yes	No /does not support exporting/
ExcelMLExportRowCreated	Fires when a grid is exported to ExcelML and a row is created	Yes	No /does not support exporting/
ExcelMLExportStylesCreated	Fires when a grid is exported and styles collection is created	Yes	No /does not support exporting/
GroupsChanging	Fires when a column header was dragged onto/removed from the group panel	Yes	No /does not support grouping/

Columns

Event	Additional Information	RadGrid	ASP.NET GridView
Bound		Yes /GridBoundColumn/	Yes /BoundField/
CheckBox		Yes /GridCheckBoxColumn/	Yes /CheckBoxField/
HyperLink		Yes /GridHyperLinkColumn/	Yes /HyperLinkField/

Button/Command	Yes /GridButtonColumn, GridEditCommandColumn/	Yes /ButtonField, CommandField/
DropDown	Yes /GridDropDownColumn/	No
Template	Yes /GridTemplateColumn/	Yes /TemplateField/
Binary Image	Yes /GridBinaryImageColumn/	Yes /ImageField/
Select	Yes /GridClientSelectColumn/	No
Client Delete	Yes /GridClientDeleteColumn/	No
ExpandCollapse	Yes /GridExpandCollapseColumn/	No
RowIndicator	Yes /GridRowIndicatorColumn/	No
Group Splitter	Yes /GridGroupSplitterColumn/	No
Image	Yes /GridImageColumn/	No
HTML Editor	Yes /GridHTMLEditorColumn/	No
Mask	Yes	No

	/GridMaskedColumn/	
Numeric	Yes /GridNumericColumn/	No
DateTime	Yes /GridDateTimeColumn/	No
Calculated	Yes /GridCalculatedColumn/	No
DragDrop	Yes /GridDragDropColumn/	No
Attachment	Yes /GridAttachmentColumn/	No
Rating	Yes /GridRatingColumn/	No

Server-side API – Methods

Method	Additional Information	RadGrid	ASP.NET GridView
DataBind		Yes	Yes
Rebind	used with NeedDataSource	Yes	No
FireCommand		Yes	No
ClearEditItems		Yes	No

ClearSelectedItems		Yes	No
ClearChildEditItems		Yes	No
ClearChildSelectedItems		Yes	No
DeleteRow		No	Yes
GetInsertItem	Returns the item representing the insert form	Yes	No
ExportToExcel, ExportToWord, ExportToCSV, ExportToPdf		Yes	No
ExtractValuesFromItem		Yes	No
GetColumn, GetColumnSafe		Yes	No
InsertItem	Switches the grid in insert mode	Yes	No
Sort		No	Yes
SwapColumns		Yes	No

Additional Features

Additional Features	Additional Information	RadGrid	ASP.NET GridView
Client-side API		Yes	No

Hierarchy	Yes	No
Drag and Drop	Yes	No
Self-referencing hierarchy	Yes	No
Auto-generated hierarchy	Yes	No
Grouping	Yes	No
Sorting	Yes /built-in/	Yes /with DataSource control/
Filtering	Yes	No
Paging	Yes /built-in/	Yes /with DataSource control/
Selection	Yes /Single, Multiple/	Yes /Single/
Scrolling	Yes	No
Static headers	Yes	No
Frozen columns	Yes	No
Export	Yes	No
Editing	Yes – Single and Multiple /In-place, EditForms, UserControl, Template,	Yes – Single only / In-place only/

	PopUp/	
Inserting	Yes	No
Header Context Menu	Yes	No

Telerik RadInput vs. ASP.NET TextBox

Design time support

Feature	Additional Information	RadInput	ASP.NET TextBox
Smart Tag		Yes	No
Smart Tag – Text		Yes	No
Smart Tag – Empty Msg		Yes	No
Smart-Tag – Skin		Yes	No
Smart Tag – Learning Resources		Yes	No

Appearance

Feature	Additional Information	RadInput	ASP.NET TextBox
Color/Border/Font settings		Yes	Yes
CssClass		Yes	Yes
Skin		Yes	No
InvalidStyle		Yes	No
Button/Label Css class	Sets css class for the label and buttons rendered before and after the input (if enabled)	Yes	No
Behavior/state styles	Sets the styles for invalid input, hover effects, etc.	Yes	No

Structure/Core functionality

Method	Additional Information	RadInput	ASP.NET TextBox
Label	Presets text before input control	Yes	No
AutoCompleteType	Controls autocomplete behavior	Yes	Yes
AutoPostBack		Yes	Yes
Columns	Sets width in characters	Yes	Yes
Enabled		Yes	Yes

Text/TextMode		Yes	Yes
Rows	Sets number of rows in multiline mode	Yes	Yes
ValidationGroup		Yes	Yes
ReadOnly		Yes	Yes
InvalidStyleDuration	Determine how long (in milliseconds) the control will display its invalid style when incorrect data is entered. Must be a positive integer.	Yes	No

Server-side API – Methods

Method	Additional Information	RadInput	ASP.NET TextBox
Databinding		Yes	Yes
Disposed		Yes	Yes
Init		Yes	Yes
Load		Yes	Yes
PreRender		Yes	Yes
TextChanged		Yes	Yes

Unload	Yes	Yes
ChilderenCreated	Yes	No

Client-Side API

Framework	Additional Information	RadInput	ASP.NET TextBox
OnValueChanging		Yes	No
OnValueChanged		Yes	No
OnFocus		Yes	No
OnBlur		Yes	No
OnButtonClick		Yes	No
OnKeyPress		Yes	No
OnDisable		Yes	No
OnEnable		Yes	No
OnError		Yes	No
OnLoad		Yes	No
OnMouseOver		Yes	No

OnMouseOut	Yes	No
OnMoveDown	Yes	No
OnMoveUp	Yes	No
OnEnumerationChanged	Yes	No

Additional Features

- **Three different controls, in addition to the RadTextBox control:**

RadNumericTextBox:

<http://demos.telerik.com/aspnet-ajax/input/examples/radnumerictextbox/firstlook/defaultcs.aspx>

RadDateInput:

<http://demos.telerik.com/aspnet-ajax/input/examples/raddateinput/firstlook/defaultcs.aspx>

RadMaskedTextBox:

<http://demos.telerik.com/aspnet-ajax/input/examples/radmaskedtextbox/firstlook/defaultcs.aspx>

- **Features, which are available only for RadInput control:**

Telerik provides **RadInputManager** control which offers an easy and intuitive way to extend a standard asp.net text box, and without any extra custom code, introduce much functionality, normally related to a Telerik RadInput control. The client event model for the Input Manager is similar to that of the normal Telerik RadInput controls, whereas the server side model offers one additional event (other than the events available for the text boxes), where certain settings can be altered.

Within the RadInputManager, there are four types of settings which could be added:

1. **telerik:DateInputSetting** – the targeted text box will be accepting input in a date format
2. **telerik:NumericTextBoxSetting** – the targeted textbox will be accepting numeric input
3. **telerik:RegExpTextBoxSetting** – the targeted text box will be accepting characters corresponding to a specified regular expression
4. **telerik:TextBoxSetting** – the targeted text box will exhibit behavior like a normal RadTextBox

RadInputManager:

http://www.telerik.com/help/aspnet-ajax/using_radinputmanager.html

<http://demos.telerik.com/aspnet-ajax/input/examples/radinputmanager/firstlook/defaultcs.aspx>

- Focus/button position
<http://demos.telerik.com/aspnet-ajax/input/examples/radtextbox/firstlook/defaultcs.aspx>
- Formatting of input
<http://demos.telerik.com/aspnet-ajax/input/examples/radnumerictextbox/firstlook/defaultcs.aspx>
- On Error handling
<http://demos.telerik.com/aspnet-ajax/input/examples/raddateinput/handleerrorevent/defaultcs.aspx>
- Styles:
<http://demos.telerik.com/aspnet-ajax/input/examples/appearance/styles/defaultcs.aspx>
- Extensive Client Side API:
<http://demos.telerik.com/aspnet-ajax/input/examples/programming/clientside/apievents/defaultcs.aspx>

RadListBox vs. ASP.NET ListBox vs. Ajax Toolkit's ReorderList

Design time support

Feature	Additional Information	RadListBox	ASP.NET ListBox	ReorderList
Smart Tag		Yes	Yes	
Setting Skin		Yes	No	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No	No
Item Collection Editor		Yes	Yes	No
Item Templates		Yes	No	Yes
EmptyMessageTemplate	Rendered when no items are available	Yes	No	Yes
EditTemplate, DragTemplate, ReorderTemplate	Templates for edit, drag and reorder	No	No	Yes
Add Relative Listbox	Add destination listbox	Yes	No	No

Appearance

Feature	Additional Information	RadListBox	ASP.NET ListBox	ReorderList
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Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own most often through CSS)	No (you need to define template)
ToolTip	The text displayed when the mouse pointer hovers over the Web server control / listBox item. (inherited from WebControl)	Yes (Tooltip can be set for the RadListBox and for every item).	No (Tooltip can be set only for the whole ListBox and not for its list items)	No (Tooltip can be set only for the whole ListBox and not for its list items)
Images	Image in front of the ListBox Item	Yes (through ImageUrl property)	No	Yes (through templates)
Checkboxes	Checkbox in front of the items	Yes	No	Yes (through templates)
Right-To-Left Support		Yes (<code>dir="rtl"</code>)	Yes (<code>style="direction: rtl"</code>)	Yes (<code>style="direction: rtl"</code>)
Granular Control over the rendered items		Yes	No	Yes

DataBinding

Method	Additional Information	RadListBox	ASP.NET ListBox	ReorderList
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Declarative data sources	XmlDataSource, SqlDataSource, AccessDataSource, ObjectDataSource, LinqDataSource, EntityDataSource, OpenAccessDataSource	Yes	Yes	Yes
Binding to DataTable, DataSet, DataView, Array, ArrayList		Yes	Yes	Yes
XML String Binding		Yes	No	No
XML File		Yes	No	No
Create items on the client (via the client-side API).		Yes	No	No

Server-Side API

Event	Additional Information	RadListBox	ASP.NET ListBox	ReorderList
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SelectedIndexChanged	Raised when the selected index of the listbox has changed after postback.	Yes	Yes	No
ItemCreated	Raised when a new item is created during databinding, programmatic insertion or loading from ViewState.	Yes	No	Yes
ItemDataBound	Raised when an item is databound.	Yes	No	Yes
Deleted/Deleting	Raised after items are deleted.	Yes	No	Yes (DeleteCommand)
Transferred/Transferring	Raised after items are transferred.	Yes	No	No
Inserted/Inserting	Raised after items are inserted during transfer.	Yes	No	Yes (InsertCommand)
Reordered/Reordering	Raised after items are reordered.	Yes	No	Yes (ItemReorder)
TextChanged	Fires when the Text property has been changed.	Yes	Yes	No
Method	Additional Information	RadListBox	ASP.NET ListBox	ReorderList

FindItemByText	Finds the first RadListBoxItem with Text that matches the given text value	Yes	Yes (FindByText)	No
FindItemByValue	Finds the first RadListBoxItem with Value that matches the given value	Yes	Yes (FindByValue)	No
FindItemIndexByText	Returns the index of the first RadListBoxItem with Text that matches the given text value	Yes	No	No
FindItemIndexByValue	Returns the index of the first RadListBoxItem with Text that matches the given value	Yes	No	No
GetXml	Returns the state of RadListBox as an XML string	Yes	No	No
LoadContentFile	Loads listbox items from an XML content file	Yes	No	No
LoadXml	Populates RadListBox from an XML string	Yes	No	No
GetCheckedIndices	Gets an array containing the indices of the currently checked items in the RadListBox control.	Yes	No	No
GetSelectedIndices	Gets an array containing the indices of the	Yes	Yes	No

currently selected items
in the RadListBox control.

Additional Features

Additional Features	Additional Information	RadListBox	ASP.NET ListBox	ReorderList
Templates	Define the html structure of your items	Yes	No	Yes
Images	Put an image in front of the item	Yes (through ImageUrl)	No	Yes (through templates)
Transfer to related listbox	Easily transfer items to the related listbox	Yes	No	No
Drag-and-Drop	Drag and drop items to the related listbox	Yes	No	No
Checkbox support		Yes	No	Yes (through templates)
Button Configuration	Configure the buttons to transfer and move the buttons up or down	Yes	No	No
Creating items on the client	Using the client-side API	Yes	No	No

Telerik RadListView vs. ASP.NET ListView

Design time support

Feature	Additional Information	RadListView	ListView
Setting Skin		Yes	Yes
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
Layout editor		Yes	Yes
Predefined layouts		6	5
ItemTemplate / AlternatingItemTemplate		Yes	Yes
EmptyDataTemplate / EmptyItemTemplate		Yes	Yes
GroupSeparatorTemplate / GroupTemplate		Yes	Yes
InsertItemTemplate		Yes	Yes
ItemSeparatorTemplate		Yes	Yes
LayoutTemplate	This template is not mandatory for	Yes	Yes

RadListView

SelectedItemTemplate	Yes	Yes
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Appearance

Feature	Additional Information	RadListView	ListView
Predefined styles/skins	RadListView has 14 skins, ListView has 3 basic styles	14	3

DataBinding

Method	Additional Information	RadListView	ListView
Declarative data sources	XmlDataSource, SqlDataSource, AccessDataSource, ObjectDataSource, LinqDataSource, EntityDataSource, OpenAccessDataSource, etc	Yes	Yes
Advanced data-binding		Yes	No
Built-in LINQ support		Yes	No

Server-Side API

Event	Additional Information	RadListView	ListView
DataBinding event		Yes	Yes
DataBound event		Yes	Yes
Disposed event		Yes	Yes
Init event		Yes	Yes
ItemCanceling event		Yes	Yes
ItemCommand event		Yes	Yes
ItemCreated event		Yes	Yes
ItemDataBound event		Yes	Yes
ItemDeleted event		Yes	Yes
ItemDeleting event		Yes	Yes
ItemDrop event		Yes	No
ItemEditing event		Yes	Yes
ItemInserted event		Yes	Yes
ItemInserting event		Yes	Yes

ItemUpdated event	Yes	Yes
ItemUpdating event	Yes	Yes
LayoutCreated event	Yes	Yes
Load event	Yes	Yes
NeedDataSource event	Yes	No
PageIndexChanged event	Yes	No
PageSizeChanged event	Yes	No
PagePropertiesChanged event	No	Yes
PagePropertiesChanging event	No	Yes
PreRender event	Yes	Yes
SelectedIndexChanging event	No	Yes
SelectedIndexChanged event	Yes	Yes
Sorted event	No	Yes
Sorting event	Yes	Yes
Unload event	Yes	Yes

ListViewItem	RadListViewItem / ListViewItem	Yes	Yes
ListViewDataItem	RadListViewDataItem / ListViewDataItem	Yes	Yes
ListViewEditableItem	RadListViewEditableItem / ListView.EditItem	Yes	Yes
ListViewInsertItem	RadListViewInsertItem / RadListViewItem (ItemType.InsertItem)	Yes	Yes
ListViewEmptyDataItem	RadListViewEmptyDataItem / ItemType.EmptyItem	Yes	Yes
ListViewEmptyItem		Yes	No
ListViewGroupItem		Yes	No

Additional Features

Additional Features	Additional Information	RadListView	ListView
Sort expressions		Yes	No
Filter expressions		Yes	No
Built-in validation support		Yes	No

Paging	Yes (built-in)	Yes
Sorting	Yes (built-in)	Yes
Filtering	Yes	No
Drag and drop	Yes	No
Integration with DataPager	Yes	Yes
Integration with RadDataPager	Yes	Yes
Integration with RadFilter	Yes	No
Multi-item editing	Yes	No

RadMaskedTextBox vs. Ajax Toolkit's MaskedEditExtender

Design time support

Feature	Additional Information	RadMaskedTextBox	AjaxToolkit MaskedEditExtender
Smart Tag		Yes	No

Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
Set Mask		Yes	No
Add Ajax Resources		Yes	No

Appearance

Feature	Additional Information	RadMaskedTextBox	AjaxToolkit MaskedEditExtender
Skins	Applying skins to the control	Yes(many skins are provided in the installation package)	No (you need to define template)
Prompt Character	When control is displayed at run time, it represents the mask as a series of prompt characters for the text the user should enter and literal characters for literal strings that are part of the mask. Each mask position is shown with a single prompt character	Yes	Yes
Empty Message	Displays when input is empty	Yes(RadMaskedTextBox display the value of its EmptyMessage property if the HideOnBlur property is set to True.)	No

Right-To-Left Support	Yes	No
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Client-Side API

Event	Additional Information	RadMaskedTextBox	AjaxToolkit MaskedEditExtender
Various methods for controlling the editor's look and behavior		Yes(rich client-side API)	Yes (limited)

Additional Features

Additional Features	Additional Information	RadMaskedTextBox	AjaxToolkit MaskedEditExtender
ToolTip	This property is a string that appears in a tooltip when the user hovers the mouse over the input control.	Yes	No
ShowButton, ButtonsPosition, and ButtonCssClass	These properties let you add and configure buttons on the input control.	Yes	No
TextMode	Support single-line and multi-line mode	Yes	No

RadMenu VS ASP.NET Menu

Design time support

Feature	Additional Information	RadMenu	ASP.NET Menu
Smart Tag		Yes	Yes
Setting Skin	AutoFormat	Yes	Yes
Learning center	Links to the help resources. Search engine. AJAX Resources	Yes	No
Edit Items	Adding items	Yes	Yes
Edit Templates		Yes	Yes
Choose DataSource		Yes	Yes
All properties can be set in the properties grid		Yes	Yes

Appearance

Feature	Additional Information	RadMenu	ASP.NET Menu
Skins	Applying skins to the control	Yes (14 skins are provided in the	Yes (4 predefined skins)

		installation package)	
CSS properties for each menu item	Css Classes for all the menu item's states	Yes	No
Right-To-Left Support		Yes	Yes
Rounded corners and shadows		Yes	No
ImageUrl		Yes	Yes
HoveredImageUrl		Yes	No
ClickedImageUrl		Yes	No
ExpandedImageUrl		Yes	No
EnableRootItemScroll	Setting this property to "true" in combination with Width/Height will allow the root items to be scrolled	No	Yes

Databinding

Method	Additional Information	RadMenu	ASP.NET Menu
Declarative data sources that implement IHierarchicalDataSource	XmlDataSource, SiteMapDataSource	Yes	Yes

Declarative data sources that do not implement IHierarchicalDataSource or IHierarchicalEnumerable	SqlDataSource, AccessDataSource, ObjectDataSource	Yes	No
Binding to DataTable, DataSet, DataView, Array, ArrayList		Yes	No
XML String Binding		Yes	No
Web Service	Dynamically load child items through a web service	Yes	No
Context XML File		Yes	No
DataFieldID	Needed to establish menu item hierarchy	Yes	No
DataFieldParentID	Needed to establish menu item hierarchy	Yes	No
DataTextField	Populates the text property with the specified field	Yes	No
DataNavigateUrlField	Populates the NavigateUrl property with the specified field	Yes	No
DataValueField	Populates the Value property with the specified field	Yes	No

Server-Side API

Method	Additional Information	RadMenu	ASP.NET Menu
ClientChanges	Method to access client changes after postback	No	Yes
ClearSelectedItem		No	Yes
FindItem		Yes	Yes
FindItemByText		Yes	No
FindItemByText	(overload) second argument <i>ignoreCase</i> which indicates whether the comparison is case-sensitive (true) or case-insensitive (false).	Yes	No
FindItemByUrl		Yes	No
FindItemByValue		Yes	No
FindItemByValue	(overload) second argument <i>ignoreCase</i> which indicates whether the comparison is case-sensitive (true) or case-insensitive (false).	Yes	No
GetAllItems		Yes	No
GetXml	Gets the RadMenu control structure as a XML string. Added to support the legacy XML format used in previous versions.	Yes	No
LoadContentFile	Populates the RadMenu control from external XML file. Added to support the legacy XML format used in previous	Yes	No

versions.

LoadXml	Populates the RadMenu control from a XML string. Added to support the legacy XML format used in previous versions.	Yes	No
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Ajax Support

Feature	RadMenu	ASP.NET Menu
ASP.NET AJAX	Yes	No
RadAjax	Yes	Yes

Additional Features

Client-Side API - RadMenu provides rich client-side API including various client-side events. The ASP.NET menu provides no client-side API.

RadMenu property to enable HTML text encoding (**EnableTextHTMLEncoding**)

[Client-Side API](#)

[Client-Side Events](#)

[Click to Open](#)

[Context Menu](#)

[Multi-column](#)

RadNumericTextBox vs. Ajax Toolkit's NumericUpDownExtender

Design time support

Feature	Additional Information	RadNumericTextBox	NumericUpDown
Smart Tag		Yes	Yes (“Add Extender” option via the TextBox’s tag)
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadNumericTextBox	NumericUpDown
Skins	Applying skins to the control	Yes	No
Control Type		Separate control (visible in the Designer)	Control extender (invisible; attached to the TextBox)
ToolTip	The text displayed when the mouse pointer hovers over the control	Yes	N/A (supported by the extended control)

Right-To-Left Support		Yes	No
Empty message	Displayed when the input control is empty	Yes	No
Spin buttons		Yes	Yes
Spin buttons position		Yes (left, right)	No
MinValue / MaxValue		Yes (MinValue / MaxValue)	Yes (Minimum / Maximum)
Built-in styles		Yes (Disabled, Enabled, Focused, Hovered, Invalid, Negative, ReadOnly)	No
Number formats		Yes (Currency, Number, Percent)	No
Positive / Negative patterns		Yes	No
Culture-specific formatting / Globalization		Yes	No
Submit button		Yes	No
Grouping / Decimal support		Yes (validate/parse on input)	Text-based

Server-Side API

Event	Additional Information	RadNumericTextBox	NumericUpDown
OnResolveControlID	Fires when the extender cannot locate its target control.	N/A	Yes (extender-specific event)

Client-Side API

Functionality	Additional Information	RadNumericTextBox	NumericUpDown
Client-side object	Client-side AJAX component	Yes	Yes
Get/Set Minimum/Maximum values		Yes (set_maxValue, get_maxValue, get_minValue, set_minValue)	Yes (set_Maximum, get_Maximum, get_Minimum, set_Minimum)
Set/get caret position		Yes	No

Additional Features

Additional Features	Additional Information	RadNumericTextBox	NumericUpDown
Predefined values		No	Yes (RefValues)
Fetching values from		No	Yes

WebService

Keyboard increment	Yes	No
Mouse wheel support	Yes	No

RadNumericTextBox online demo: [\[click here\]](#)

RadNumericTextBox documentation: [\[click here\]](#)

NumericUpDownExtender demo/documentation: [\[click here\]](#)

RadPanelBar vs. ASP.NET Ajax Toolkit's Accordion

Design time support

Feature	Additional Information	RadPanelBar	Accordion
Smart Tag		Yes	Yes
Setting Skin		Yes	No
Learning center links	Links to the help resources. Search engine. Ajax Resources	Yes	No
Item Collection Editor		Yes	No
Item Templates		Yes	Yes

EmptyMessageTemplate	Rendered when no items are available	Yes	No
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Appearance

Feature	Additional Information	RadPanelBar	Accordion
Skins	Applying skins to the control	Yes	No
ToolTip	The text displayed when the mouse pointer hovers over the Web server control	Yes	Yes
Images	Image in front of the sub-items	Yes (property provided)	Yes (through template)
Right-To-Left Support		Yes	No
Granular Control over the rendered items		Yes	No (at least not explicitly)
CollapseAnimation.Type		Yes	No

	(29 predefined options)	
CollapseAnimation.Duration	Yes	No
CollapseDelay	Yes	No
ExpandAnimation.Type	Yes	No
	(29 predefined options)	
ExpandAnimation.Duration	Yes	No
ExpandDelay	Yes	No

DataBinding

Method	Additional Information	RadPanelBar	Accordion
Declarative data sources	XmlDataSource, SqlDataSource, AccessDataSource, ObjectDataSource, LinqDataSource, EntityDataSource, OpenAccessDataSource	Yes	Yes
Binding to DataTable, DataSet, DataView, Array, ArrayList		Yes	Yes
XML String Binding		Yes	No

XML File

Yes

No

Server-side API

Events	Additional Information	RadPanelBar	Accordion
ItemClick		Yes (ItemClick)	Yes (through OnItemCommand)
ItemCreated		Yes (ItemCreated)	Yes (OnItemCreated)

Server-side API

Methods	Additional Information	RadPanelBar	Accordion
ClearSelectedItems		Yes (ClearSelectedItems)	No
CollapseAllItems		Yes (CollapseAllItems)	No

FindChildByValue	Yes (FindChildByValue)	No
FindItem	Yes (FindItem)	No
FindItemByText	Yes (FindItemByText)	No
FindItemByValue	Yes (FindItemByValue)	No
GetAllItems	Yes (GetAllItems)	No
GetXml	Yes (GetXml)	No
LoadContentFile	Yes (LoadContentFile)	No
LoadXml	Yes (LoadXml)	No

Client-side API

Events	Additional Information	RadPanelBar	Accordion
OnClientItemClicking		Yes (OnClientItemClicking)	No
OnClientItemClicked		Yes (OnClientItemClicked)	No
OnClientItemExpand		Yes (OnClientItemExpand)	No
OnClientItemCollapse		Yes (OnClientItemCollapse)	No
OnClientItemFocus		Yes (OnClientItemFocus)	No
OnClientItemFocus		Yes (OnClientItemFocus)	No
OnClientItemBlur		Yes (OnClientItemBlur)	No
OnClientLoad		Yes (OnClientLoad)	No

OnClientMouseOver	Yes (OnClientMouseOver)	No
OnClientMouseOut	Yes (OnClientMouseOut)	No
OnClientContextMenu	Yes (OnClientContextMenu)	No
selectedIndexChanging	Yes (can be achieved with persistent variable and the OnClientItemClicking)	Yes
selectedIndexChanged	Yes (can be achieved with persistent variable and the OnClientItemClicked)	Yes

Client-side API

Methods	Additional Information	RadPanelBar	Accordion
findItemByUrl		Yes	No
findItemByValue		Yes	No
findItemByText		Yes	No

findItemByUrl	Yes	No
findItemByAbsoluteUrl	Yes	No
findItemByAttribute	Yes	No
get_items	Yes	No
get_allItems	Yes	No
get_focusedItem	Yes	No
get_expandedItem	Yes	No
get_expandedItems	Yes	No
get_selectedItem	Yes	No
get_selectedItems	Yes	No
get_attributes	Yes	No
get_attributes	Yes	No
get_childListElement	Yes	No
enableEvents	Yes	No
disableEvents	Yes	No
Count	Yes	Yes

(not directly but through the count

	over the items collections)	
TransitionDuration	Yes	Yes
	(expandAnimation_duration and collapseAnimation_duration)	
FramesPerSecond	No	Yes
	(dynamically calculated)	
FadeTransitions	No	Yes
	(has customizable animation types instead)	
HeaderCssClass	Yes	Yes
	(there are many methods over the RadPaneItem client-object)	
HeaderSelectedCssClass	Yes	Yes
	(as said above there are a lot more methods over the clients RadPaneItem object)	
AutoSize	No	Yes
SelectedIndex	Yes	Yes
	(get_selectedItem)	
requireOpenedPane	No	Yes
suppressHeaderPostbacks	No	Yes

Additional Features

Additional Features	Additional Information	RadPanelBar	Accordion
Hierarchical Items		Yes	No
Multiple Expanded Panes		Yes	No

RadRating for ASP.NET AJAX vs. Ajax Toolkit's Rating

Design time support

Feature	Additional Information	RadRating	Rating
Smart Tag		Yes	Yes
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadRating	Rating
Skins	Applying skins to the control	Yes (predefined skins that could be easily modified)	No
Customizing the UI		Yes	Yes
Right-To-Left Support		Yes	Yes

Server-Side API

Method / Event	Additional Information	RadRating	Rating
Various Properties and Methods controlling the control's look and behavior		Yes	Yes

Server-Side Events

Yes
(One Server-Side event - Rate)

Yes
(One Server-Side event - Changed)

Client-Side API

Method / Event

Additional Information

RadRating

Rating

Various properties and methods controlling the control's look and behavior

Yes
([ClientSide API](#))

Yes
(missing documentation)

Various Client-side events

Yes
(OnClientLoad , OnClientRating, OnClientRated)

Yes
(missing documentation)

Additional Features

Additional Features

Additional Information

RadRating

Rating

AutoPostBack functionality		Yes	Yes
Support Decimal Rating Values	Providing the possibility for more precise rating.	Yes	No
Customizable Items	Possibility to customize each item individually	Yes	No
Rating Precision	Different settings for precision of the rating	Yes (Whole Item, Half an Item, Exact Precision)	No
Reverse direction		Yes	Yes
Different orientation	Vertical or horizontal orientation	Yes	Yes
Customizable number of rating items		Yes	Yes
Readonly Mode	Possibility to specify whether the rating can be changed or not	Yes	Yes
Selection Mode	Different settings for selection mode	Yes (Single, Continious)	No

RadSlider for ASP.NET AJAX

VS.

Ajax Toolkit's Slider / MultiHandlerSlider Extender

Design time support

Feature	Additional Information	RadSlider	Slider
Smart Tag		Yes	No
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Appearance

Feature	Additional Information	RadSlider	Slider
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Skins	Applying skins to the control	Yes (predefined skins that could be easily modified)	No
Customizing the UI		Yes	Yes (by applying custom CSS classes)
Right-To-Left Support		Yes	No

Server-Side API

Method / Event	Additional Information	RadSlider	Slider
Various Properties and Methods controlling the control's look and behavior		Yes	Yes
Server-Side Events		Yes (One Server-Side event - OnValueChanged)	No

Client-Side API

Method / Event	Additional Information	RadSlider	Slider
Various properties and methods controlling the control's look and behavior		Yes (RadSlider Client Object)	Yes (missing documentation)
Various Client-side events		Yes (RadSlider Client-side Events)	Yes (missing documentation)

Additional Features

Additional Features	Additional Information	RadSlider	Slider
Different Orientations	Vertical or horizontal orientation of the slider on the page	Yes	Yes
Reversed Direction	Possibility to reverse the minimum and maximum value position	Yes	No

Server-side rendering		Yes	No
Customizable Minimum / Maximum values		Yes	Yes
Multi-handler Slider	Possibility to define slider to display multiple drag-handlers	Yes (maximum two handlers)	Yes (unlimited handlers)
Customizable Slider steps		Yes	Yes
Different Slider Steps' types	Large and Small steps	Yes	No
Ticks	Possibility to display a tick mark indication for every step of the slider	Yes	No
Items	Possibility to display a custom item for every step of the slider	Yes	No
Bound to an external control to display the current value		No	Yes

RadTabStrip vs. Ajax Toolkit's TabContainer

Design time support

Feature	Additional Information	RadTabStrip	Ajax Toolkit TabContainer
Smart Tag		Yes	Yes
Setting Skin		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
Item Collection Editor		Yes	Yes
Tab Templates		Yes	No
Add Relative RadMultiPage		Yes	No

Appearance

Feature	Additional Information	RadTabStrip	Ajax Toolkit TabContainer
Skins	Applying skins to the control	Yes (many skins are provided in the installation package)	No (you need to define template)
ToolTip	The text displayed when the mouse pointer hovers over the Web server control	Yes (ToolTip can be set for the RadTabStrip and for every RadTab).	Yes (ToolTip can be set for the TabContainer and for every TabPanel).

Images	Image displayed for the tab	Yes (through ImageUrl property)	Yes (through templates)
Right-To-Left Support		Yes (<code>dir="rtl"</code>)	Yes (<code>style="direction:rtl"</code>)

DataBinding

Method	Additional Information	RadTabStrip	Ajax Toolkit TabContainer
Declarative data sources	XmlDataSource, SqlDataSource, AccessDataSource, ObjectDataSource, LinqDataSource, EntityDataSource, OpenAccessDataSource	Yes	Yes
Binding to DataTable, DataSet, DataView, Array, ArrayList		Yes	Yes
XML String Binding		Yes	No
XML File		Yes	No
Create items on the client (via the client-side API).		Yes	No

Server-Side API

Event	Additional Information	RadTabStrip	Ajax Toolkit TabContainer
TabClick	Occurs when a user clicks on a tab.	Yes	Yes (ActiveTabChanged event)
TabCreated	Occurs when a new tab is added to the RadTabStrip at any level.	Yes	No
TabDataBound	Occurs when a new tab is bound to a data source.	Yes	No
PageViewCreated (In addition RadMultiPage adds a single server-side event)	Occurs when a new page view is added to the multi-page.	Yes	No
Method	Additional Information	RadTabStrip	Ajax Toolkit TabContainer
FindTabByText	Finds the first RadTab with Text that matches the given text value	Yes	No
FindTabByValue	Finds the first RadTab with Value that matches the given value	Yes	No
FindTabByUrl	Finds the first RadTab with Text that matches the given url value	Yes	No

FindTab	Finds the first RadTab that matches the conditions defined by the specified predicate	Yes	No
GetXml	Returns the state of RadTab as an XML string	Yes	No
GetAllTabs	Gets a linear list of all tabs in the control	Yes	No
LoadContentFile	Populates the control from external XML file	Yes	No
LoadXml	Loads the control from an XML string	Yes	No

Additional Features

Additional Features	Additional Information	RadTabStrip	Ajax Toolkit TabContainer
Templates	Define the html structure of your items	Yes	Yes
Orientation	Customize the way tabs are rendered	Yes (through Orientation property)	No
Multi-row	Tabs could be in multiple rows	Yes	No

Hierarchical, Vertical		Yes	No
MultiPage		Yes	No
ValidationGroups	You can assign a group name to a set of validators to ensure that validation occurs only for controls in the specified group	Yes(through ValidationGroup property)	No

RadTextBox vs. Ajax Toolkit's TextBoxWatermark

Design time support

Feature	Additional Information	RadTextBox	Ajax Toolkit TextBoxWatermarkExtender
Smart Tag		Yes	Yes
Setting Skin		Yes	No
AutoFormat		No	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No
Text		Yes	No
WatermarkText	The text to show when the control has no value	No	Yes

Empty Message	The text to show when the control has no value	Yes	No
Ajax Resources	Provides option to add RadAjaxManager	Yes	No

Appearance

Feature	Additional Information	RadTextBox	Ajax Toolkit TextBoxWatermarkExtender
Skins	Applying skins to the control	Yes(many predefined Skins that could be easily modified)	Yes(by using custom CSS classes)
CssClass	Applying custom skin to the control	Yes	No
WatermarkCssClass	The CSS class to apply to the TextBox when it has no value (e.g. the watermark text is shown).	No	Yes
Button/Label Css class	Sets css class for the label and buttons rendered before and after the textbox (if enabled)	Yes	No
Color/Border/Font settings		Yes	No
Behavior/state styles	Sets the styles for invalid textbox, hover effects, etc.	Yes	No

InvalidStyle	Yes	No
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Server-Side API

Event	Additional Information	RadTextBox	Ajax Toolkit TextBoxWater markExtender
TextChanged	Fired when text is changed	Yes	No
ChildrenCreated	Fired when child controls are created	Yes	No
ResolveControlID	Fired when the extender can not locate it's target control	No	Yes

Client-Side API

Method	Additional Information	RadTextBox	Ajax Toolkit TextBoxWater markExtender
Various methods for controlling the control look and behavior		Yes(rich client-side API)	No

Additional Features

Additional Features	Additional Information	RadControl	Ajax Toolkit Control
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[Any nice feature that we have and does not fit in](#)

[the above categories](#)

RadToolTip for ASP.NET AJAX vs browser's tooltip

Visualisation

Feature	Additional Information	RadToolTip	Browser's tooltip
Smart Tag		Yes	No
Setting Skin	RadToolTip provides a rich CSS-based skinning mechanism which allows the user to create custom skins or to use one of the 11 preset skins.	Yes	No
Learning center	Links to the help resources. Search engine.	Yes	No
Design-time support		Yes	No
Customizing the UI	The RadToolTip serverside properties and the clientside API provide a number of options for customizing the look and feel of the windows.	Yes	No

Functionality

Feature	Additional Information	RadToolTip	Browser's tooltip
Content	Unlike the browser's tooltip, RadToolTip can display rich content, including user controls. The content can also be set via a WebService.	Yes	Plain text only
Modality	RadToolTip provides a cross-browser modal feature that works in all major browsers.	Yes	No
Events	RadToolTip provides the following client-side events: - OnClientBeforeShow - fires before RadToolTip is shown - OnClientShow - fires after RadToolTip is shown - OnClientBeforeHide - fires before RadToolTip hides - OnClientHide - fires after RadToolTip hides	Yes	No
Load on Demand	RadToolTip's content can be loaded or set with Ajax / web service	Yes	No
Control over the position of the opened tooltip	RadToolTip client-side API gives you full control over the position of the tooltip.	Yes	No
Server-Side API		Yes	No

RadTreeView VS ASP.NET treeview

Design time support

Feature	Additional Information	RadTreeView	ASP.NET TreeView
Smart Tag	Allows additional design-time operations	Yes	Yes
Setting Skin	AutoFormat.	Yes	No
Learning center	Links to the help resources; search engine	Yes	No
Edit Nodes	Adding items	Yes	Yes
Nodes Collection Editor		Yes	Yes
Edit Templates		Yes	No
Choose Data Source		Yes	Yes
All properties can be set in the properties grid		Yes	Yes

Appearance

Feature	Additional Information	RadTreeView	ASP.NET TreeView
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Skins	Applying skins to the control.	Yes (many skins are provided in the installation package)	Yes (the skin has to be built on your own)
CSS properties for each TreeNode	CSS Classes for all the TreeNodes' states	Yes	Yes
ToolTip	The text displayed when the mouse pointer hovers over the Web server control / TreeNode (inherited from WebControl)	Yes	Yes
Right-To-Left Support		Yes	Yes (dir="rtl" need to be set in the <body> tag)

Data Binding

Method	Additional Information	RadTreeView	ASP.NET TreeView
Declarative data sources	XmlDataSource, SiteMapDataSource, SqlDataSource, AccessDataSource, ObjectDataSource	Yes	Yes
Binding to DataTable, DataSet, DataView, Array, ArrayList		Yes	Yes
Content XML	A formatted XML File	Yes	No

File			
XML String	A formatted XML string (same format as the XML File)	Yes	No
Populating through a Web Service		Yes	No

Server-Side API

Event	Additional Information	RadTreeView	ASP.NET TreeView
NodeClick	Fired when the TreeNode is clicked	Yes	No
NodeDataBound	Fired when the TreeNode is being bound	Yes	Yes (TreeNodeDataBound)
NodeCheck	Fired when a TreeNode is checked	Yes	Yes (TreeNodeCheckChanged)
NodeEdit	Fired when a TreeNode is being edited	Yes	No
NodeCollapse	Fired when a TreeNode is being collapsed	Yes	No
ContextMenuItemClick	Fired when a Context Menu Item is clicked	Yes	No
NodeCreated	Fired when a TreeNode is	Yes	No

	being created		
NodeDrop	Fired when a TreeNode is dropped	Yes	No
NodeExpand	Fired when a TreeNode is being expanded	Yes	Yes (TreeNodePopulate)
SelectedNodeChanged	Fired when the selected Node is changed	No	Yes
TreeNodeExpanded	Fired when the TreeNode is expanded	No	Yes
TreeNodeCollapsed	Fired when the TreeNode is collapsed	No	Yes
TemplateNeeded	Fired before a template is applied to the node	Yes	No

Method	Additional Information	RadTreeView	ASP.NET TreeView
AddNode	Adds a TreeNode at the root level	No	No
ClearCheckedNodes	Clears all checked TreeNodes	Yes	No
ClearSelectedNodes	Clears all selected TreeNodes	Yes	No

CollapseAllNodes	Closes every node in the tree	Yes	Yes (CollapseAll)
ExpandAllNodes	Opens every node in the tree	Yes	Yes (ExpandAll)
FindNodeByText	Returns the first instance of the Node (RadTreeNode) with the specified Text or null if no node is found	Yes	No
FindNodeByValue	Returns the first instance of the node (RadTreeNode) with the specified Value or null if no node is found	Yes	No
FindNodeByUrl	Returns the first instance of the node (RadTreeNode) with the specified Url or null if no node is found	Yes	No
FindNodeByAttribute	Returns the first instance of the node (RadTreeNode) with the specified Attribute and Attribute Value or null if no node is found	Yes	No
GetAllNodes	Gets a linear generic list of ALL nodes in the current TreeView instance	Yes	No
GetContextMenusXml	Gets the current state of	No	No

	TreeView's context menus as XML string.		
GetXml	Gets the current state of TreeView as XML string	Yes	No
LoadContentFile	Populates TreeView from XML content File at runtime	Yes	No
LoadContextMenusXmlString	Populates ContextMenus from XML String	No	No
LoadXmlString	Populates TreeView from XML String	Yes	No
Populate	Populates the treeview with a Sql String Query and a connection	No	No

Ajax Support

RadTreeView provides full MS Ajax support.

MS TreeView experiences certain problems against MS Ajax and JS errors are often thrown.

Additional Features

- Client-Side API - RadTreeView provides rich client-side API including various client-side events. The ASP.NET TreeView provides no client-side API.

[Client-Side API](#)

[Client-Side Events](#)

- Templates - [Global and Per Node templates](#)
- Context Menus – [Built-in Context Menus](#)

- [Node Text Editing](#) – RadTreeView supports client-side Node Editing
- [Enhanced Drag and Drop behavior](#) - RadTreeView supports dragging onto other nodes, between other nodes, to other trees and onto any HTML element.
- [Custom Attributes](#)
- [Cross-Page PostBacks](#) - which let you direct PostBacks from the node of a RadTreeView to a different Web page.
- [Multi-Node Selection](#) - RadTreeView supports multiple-select mode (using Shift and Ctrl keys), which allows you to select more than one node at once.
- [Populating from XML](#) - You can populate RadTreeView programmatically at runtime in various ways. One of them is to use a generated XML string and pass it to the **LoadXmlString** method.
- AJAX based [Load-On-Demand](#) - Support for faster performance when the RadTreeView has many items.
- [Node populating from a Web Service](#) – You can populate RadTreeView at the client on demand by making a request to a WebService.
- [WAI-ARIA](#) support – This feature enables compliant to the standard screen readers to meaningfully translate the structure and state of RadTreeView.

RadUpload for ASP.NET AJAX uses the standard HTML File Upload control and enhances its features.

	Description	RadUpload	MS FileUpload
Product features			
1. Visualization			
1.1. Design Time support	RadUpload is visible, but is not displayed as at runtime.	Yes	Yes
1.1.1. Smart Tags	In design time, RadUpload provides Skin chooser and clickable links to useful product related information :	Yes	No

[RadUpload live examples, help, CodeLibrary section](#)

1.2. Skinning	RadUpload has various skins	Yes	No
1.3. UI Customization	RadUpload provides the ability to show/hide the UI buttons and checkboxes	Yes	No
1.3.1. "Add Button" - Adding new file input for multiple file upload	RadUpload provides the ability to add new file inputs for multiple file uploads. This is because we add the <input type=file> elements on the client, which has certain limitations – no template support, no design time support, etc...	Yes	No
1.3.2. "Remove Button" - Removing a file input for multiple file upload		Yes	No
1.4. Localization	RadUpload provides the ability to change the text of the labels of the control	Yes	No
2. File Saving			
2.1. Standard File Saving	The developer has to implement his own logic for saving the uploaded files to the server	Yes	Yes
2.2. Automatic File Saving	RadUpload provides two properties that allow auto file saving: TargetFolder and TargetPhysicalFolder . Thus the file is directly uploaded to the specified virtual or physical folder.	Yes	No

2.3. Multiple File upload	RadUpload - multiple files are uploaded with a single click. MS FileUpload - you need to add FileUpload controls to the page if you want to upload several files with single click.	Yes	No
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2.4. Memory Optimization -	RadUpload allows uploading of files up to 2GB. For ASP:FileUpload, however, you could enable it using RadUpload or another third party component	Yes	Yes
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3. File Validation

3.1. Automatic extensions, mime-types and size validation		Yes	No
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3.2. Other validation - should be implemented by the developer	RadUpload - provides easy to use client and server side api for implementing validation	Yes	Yes
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4. Progress Area - you can monitor the progress of any file being uploaded	RadUpload - customizable; with very small amount of server-side code you can monitor the progress of any measurable server-side process, such as mathematical calculations or database queries. MS FileUpload - you can use the integrated in RadUpload progress monitoring features	Yes	No
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5. Additional Features

5.1.Adding custom fields to each file input	RadUpload provides the ability to add custom fields to each file input. Using this functionality you can add fields like Title, Description, etc. to each file, uploaded with RadUpload. MS FileUpload - you do not need custom fields since you can add them directly on the page	Yes	No
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RadWindow for ASP.NET AJAX vs Browser's popup (window.open()) vs Ajax Toolkit's ModalPopupExtender

Visualisation

Feature	Additional Information	RadWindow	Browser's popup	Modal Popup Extender
Smart Tag		Yes	No	No
Setting Skin	RadWindow provides a rich CSS based skinning mechanism which allows the user to create custom skins or to use one of the 11 preset skins. RadWindow for ASP.NET AJAX supports having multiple skins for RadWindow on the same page.	Yes	No	Yes (by using custom CSS class)

Learning center	Links to the help resources. Search engine.	Yes	No	No
Design-time support	RadWindow's manager is visualized in design time and RadWindows can be added via the RadWindowManagers collection editor.	Yes	No	No
Customizing the UI	The RadWindow serverside properties and the clientside API provide a number of options for customizing the look and feel of the windows. With the browser's popup users can set various elements' visibility by using the extra flags in the window.open() function	Yes	Yes	Yes (by modifying the modal content)
Customizable alert, prompt and confirm dialogs	radalert, radprompt and radconfirm's look can be controlled and fully customized via predefined templates.	Yes	No	Yes (by creating custom content that would act as a dialog)

Functionality

Feature	Additional Information	RadWindow	Browser's popup	Modal Popup Extender
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Modality	RadWindow provides a cross-browser modal feature that works in all major browsers.	Yes	Only in IE	Yes
Minimizing in a pre-defined area	RadWindows can be minimized in a pre-set container element (DIV /SPAN) on the page. The control can be used along with RadTabStrip to for creating MDI (Multiple Document Interface). Browser's popups can be minimized in the taskbar.	Yes	No	No
Right-to-Left support		Yes	Yes	Yes
Animations		Yes (built-in)	No	Yes (by using Ajax Toolkit's AnimationExtension)
Restricting in pre-defined area	RadWindow's movement and resizing can be restricted to a pre-set container element (DIV /SPAN) on the page.	Yes	No	No
Multiple windows with different skins existing on the same page	RadWindows can be declared as standalone controls which provides the option to set them with different skins.	Yes	No	Yes
Events	RadWindow has more events than the browser popup, and the modalpopupextender and provides richer flexibility.	Yes	Yes	Yes
Control over the position of the		Yes	Yes	Yes

opened window				
Interaction between windows		Yes	Yes	Yes
Keyboard support	Users can use the Shortcuts collection of the control to set different keyboard shortcuts for certain actions related to the RadWindow(s) on the page	Yes	No	No
Server-Side API		Yes	No	Yes
Displaying content from the same page	RadWindow supports 2 modes: 1. External page container – RadWindow displays a content page, different from the parent one. 2. Controls container – the content comes from the same page. The browser's popup can show external pages only.	Yes	No	Yes
Auto resize based on the content	When RadWindow's AutoSize property is set to true, the window resize itself based on the size of its content (external page / content template)	Yes	No	No
Showing content during load	RadWindow can show a loading animation over its content while the content is being loaded.	Yes	No	No
Setting control's behaviors	RadWindow's Behaviors property allows the developer to control the main features of the control – showing / hiding various buttons in the toolbar, moving and	Yes	Yes	No

	resizing. With the browser's popup users can set various elements' visibility by using the extra flags in the window.open() function			
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RadXmlHttpPanel for ASP.NET AJAX vs. AjaxToolkit DynamicPopulate extender

Design time support

Feature	Additional Information	RadXmlHttpPanel	AjaxToolkit DynamicPopulate
Smart Tag		Yes	No
Learning center	Links to the help resources. Search engine. Ajax Resources	Yes	No

Server-Side API

Event	Additional Information	RadXmlHttpPanel	AjaxToolkit DynamicPopulate
ServiceRequest	Raised when populating the control during ASP.NET Callback	Yes	N/A (The extender does not support callbacks)

ResolveControlID	Raised when the extender cannot locate its target control.	N/A (The control does not use other server control to initiate requests or populate its content)	Yes
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Additional Features

Additional Features	Additional Information	RadXmlHttpPanel	AjaxToolkit DynamicPopulate
Support for ASP.NET Callbacks		Yes	No
Support for WebServices	The control can call a WebService Method	Yes	Yes
Supports Loading Controls	Other server controls can be loaded with the control	Yes (The controls are loaded by adding them directly to the panel, or using the XmlHttpPanel's RenderView static method. Demo)	No
Automatically load and evaluate scripts within the content		Yes	No
Initiate request with client code (JavaScript)		Yes	No

Passing parameters to the WebMethod	Yes (Any type of object can be passed to the WebMethod)	Yes (Only a single parameter of type string can be passed)
Client-side events	Yes (The XmlHttpPanel raises 2 events during every update)	No
Show loading panel while the content is updating	Yes	Yes
