



TextBox Class

.NET Framework 4

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Represents a Windows text box control.

Inheritance Hierarchy

```

System.Object
  System.MarshalByRefObject
    System.ComponentModel.Component
      System.Windows.Forms.Control
        System.Windows.Forms.TextBoxBase
          System.Windows.Forms.TextBox
            System.Windows.Forms.DataGridViewTextBox
            System.Windows.Forms.DataGridViewTextBoxEditingControl
  
```

Namespace: [System.Windows.Forms](#)

Assembly: System.Windows.Forms (in System.Windows.Forms.dll)

Syntax

C#

```

[ClassInterfaceAttribute(ClassInterfaceType.AutoDispatch)]
[ComVisibleAttribute(true)]
public class TextBox : TextBoxBase
  
```

The **TextBox** type exposes the following members.

Constructors

	Name	Description
	TextBox	Initializes a new instance of the TextBox class.

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Properties

	Name	Description
	AcceptsReturn	Gets or sets a value indicating whether pressing ENTER in a multiline TextBox control creates a new line of text in the control or activates the default button for the form.
	AcceptsTab	Gets or sets a value indicating whether pressing the TAB key in a multiline text box control types a TAB character in the control instead of moving the focus to the next control in the tab order. (Inherited from TextBoxBase .)
	AccessibilityObject	Gets the AccessibleObject assigned to the control. (Inherited from Control .)
	AccessibleDefaultActionDescription	Gets or sets the default action description of

		the control for use by accessibility client applications. (Inherited from Control .)
	AccessibleDescription	Gets or sets the description of the control used by accessibility client applications. (Inherited from Control .)
	AccessibleName	Gets or sets the name of the control used by accessibility client applications. (Inherited from Control .)
	AccessibleRole	Gets or sets the accessible role of the control (Inherited from Control .)
	AllowDrop	Gets or sets a value indicating whether the control can accept data that the user drags onto it. (Inherited from Control .)
	Anchor	Gets or sets the edges of the container to which a control is bound and determines how a control is resized with its parent. (Inherited from Control .)
	AutoCompleteCustomSource	Gets or sets a custom System.Collections.Specialized.StringCollection to use when the AutoCompleteSource property is set to CustomSource .
	AutoCompleteMode	Gets or sets an option that controls how automatic completion works for the TextBox .
	AutoCompleteSource	Gets or sets a value specifying the source of complete strings used for automatic completion.
	AutoScrollOffset	Gets or sets where this control is scrolled to in ScrollControlIntoView . (Inherited from Control .)
	AutoSize	Gets or sets a value indicating whether the height of the control automatically adjusts when the font assigned to the control is changed. (Inherited from TextBoxBase .)
	BackColor	Gets or sets the background color of the control. (Inherited from TextBoxBase .)
	BackgroundImage	Infrastructure. This property is not relevant for this class. (Inherited from TextBoxBase .)
	BackgroundImageLayout	Infrastructure. This property is not relevant for this class. (Inherited from TextBoxBase .)

	BindingContext	Gets or sets the BindingContext for the control. (Inherited from Control .)
	BorderStyle	Gets or sets the border type of the text box control. (Inherited from TextBoxBase .)
	Bottom	Gets the distance, in pixels, between the bottom edge of the control and the top edge of its container's client area. (Inherited from Control .)
	Bounds	Gets or sets the size and location of the control including its nonclient elements, in pixels, relative to the parent control. (Inherited from Control .)
	CanEnableIme	Gets a value indicating whether the ImeMode property can be set to an active value, to enable IME support. (Inherited from TextBoxBase .)
	CanFocus	Gets a value indicating whether the control can receive focus. (Inherited from Control .)
	CanRaiseEvents	Determines if events can be raised on the control. (Inherited from Control .)
	CanSelect	Gets a value indicating whether the control can be selected. (Inherited from Control .)
	CanUndo	Gets a value indicating whether the user can undo the previous operation in a text box control. (Inherited from TextBoxBase .)
	Capture	Gets or sets a value indicating whether the control has captured the mouse. (Inherited from Control .)
	CausesValidation	Gets or sets a value indicating whether the control causes validation to be performed on any controls that require validation when it receives focus. (Inherited from Control .)
	CharacterCasing	Gets or sets whether the TextBox control modifies the case of characters as they are typed.
	ClientRectangle	Gets the rectangle that represents the client area of the control. (Inherited from Control .)
	ClientSize	Gets or sets the height and width of the client area of the control. (Inherited from Control .)
	CompanyName	Gets the name of the company or creator of

		the application containing the control. (Inherited from Control .)
	Container	Gets the IContainer that contains the Component . (Inherited from Component .)
	ContainsFocus	Gets a value indicating whether the control, or one of its child controls, currently has the input focus. (Inherited from Control .)
	ContextMenu	Gets or sets the shortcut menu associated with the control. (Inherited from Control .)
	ContextMenuStrip	Gets or sets the ContextMenuStrip associated with this control. (Inherited from Control .)
	Controls	Gets the collection of controls contained within the control. (Inherited from Control .)
	Created	Gets a value indicating whether the control has been created. (Inherited from Control .)
	CreateParams	Gets the required creation parameters when the control handle is created. (Overrides TextBoxBase.CreateParams .)
	Cursor	Gets or sets the cursor that is displayed when the mouse pointer is over the control. (Inherited from Control .)
	DataBindings	Gets the data bindings for the control. (Inherited from Control .)
	DefaultCursor	Gets or sets the default cursor for the control. (Inherited from TextBoxBase .)
	DefaultImeMode	Gets the default Input Method Editor (IME) mode supported by the control. (Inherited from Control .)
	DefaultMargin	Gets the space, in pixels, that is specified by default between controls. (Inherited from Control .)
	DefaultMaximumSize	Gets the length and height, in pixels, that is specified as the default maximum size of a control. (Inherited from Control .)
	DefaultMinimumSize	Gets the length and height, in pixels, that is specified as the default minimum size of a control. (Inherited from Control .)
	DefaultPadding	Gets the internal spacing, in pixels, of the

		contents of a control. (Inherited from Control.)
	DefaultSize	Gets the default size of the control. (Inherited from TextBoxBase.)
	DesignMode	Gets a value that indicates whether the Component is currently in design mode. (Inherited from Component.)
	DisplayRectangle	Gets the rectangle that represents the display area of the control. (Inherited from Control.)
	Disposing	Gets a value indicating whether the base Control class is in the process of disposing. (Inherited from Control.)
	Dock	Gets or sets which control borders are docked to its parent control and determines how a control is resized with its parent. (Inherited from Control.)
	DoubleBuffered	Infrastructure. Gets or sets a value indicating whether control drawing is done in a buffer before the control is displayed. This property is not relevant for this class. (Inherited from TextBoxBase.)
	Enabled	Gets or sets a value indicating whether the control can respond to user interaction. (Inherited from Control.)
	Events	Gets the list of event handlers that are attached to this Component . (Inherited from Component.)
	Focused	Gets a value indicating whether the control has input focus. (Inherited from Control.)
	Font	Gets or sets the font of the text displayed by the control. (Inherited from Control.)
	FontHeight	Gets or sets the height of the font of the control. (Inherited from Control.)
	ForeColor	Gets or sets the foreground color of the control. (Inherited from TextBoxBase.)
	Handle	Gets the window handle that the control is bound to. (Inherited from Control.)
	HasChildren	Gets a value indicating whether the control contains one or more child controls. (Inherited

		from Control.)
	Height	Gets or sets the height of the control. (Inherited from Control.)
	HideSelection	Gets or sets a value indicating whether the selected text in the text box control remains highlighted when the control loses focus. (Inherited from TextBoxBase.)
	ImeMode	Gets or sets the Input Method Editor (IME) mode of the control. (Inherited from Control.)
	ImeModeBase	Gets or sets the Input Method Editor (IME) mode of a control. (Inherited from TextBoxBase.)
	InvokeRequired	Gets a value indicating whether the caller must call an invoke method when making method calls to the control because the caller is on a different thread than the one the control was created on. (Inherited from Control.)
	IsAccessible	Gets or sets a value indicating whether the control is visible to accessibility applications. (Inherited from Control.)
	IsDisposed	Gets a value indicating whether the control has been disposed of. (Inherited from Control.)
	IsHandleCreated	Gets a value indicating whether the control has a handle associated with it. (Inherited from Control.)
	IsMirrored	Gets a value indicating whether the control is mirrored. (Inherited from Control.)
	LayoutEngine	Gets a cached instance of the control's layout engine. (Inherited from Control.)
	Left	Gets or sets the distance, in pixels, between the left edge of the control and the left edge of its container's client area. (Inherited from Control.)
	Lines	Gets or sets the lines of text in a text box control. (Inherited from TextBoxBase.)
	Location	Gets or sets the coordinates of the upper-left corner of the control relative to the upper-left corner of its container. (Inherited from Control.)

	Margin	Gets or sets the space between controls. (Inherited from Control .)
	MaximumSize	Gets or sets the size that is the upper limit that GetPreferredSize can specify. (Inherited from Control .)
	MaxLength	Gets or sets the maximum number of characters the user can type or paste into the text box control. (Inherited from TextBoxBase .)
	MinimumSize	Gets or sets the size that is the lower limit that GetPreferredSize can specify. (Inherited from Control .)
	Modified	Gets or sets a value that indicates that the text box control has been modified by the user since the control was created or its contents were last set. (Inherited from TextBoxBase .)
	Multiline	Gets or sets a value indicating whether this is a multiline TextBox control. (Overrides TextBoxBase.Multiline .)
	Name	Gets or sets the name of the control. (Inherited from Control .)
	Padding	Infrastructure. This property is not relevant for this class. (Inherited from TextBoxBase .)
	Parent	Gets or sets the parent container of the control. (Inherited from Control .)
	PasswordChar	Gets or sets the character used to mask characters of a password in a single-line TextBox control.
	PreferredHeight	Gets the preferred height for a text box. (Inherited from TextBoxBase .)
	PreferredSize	Gets the size of a rectangular area into which the control can fit. (Inherited from Control .)
	ProductName	Gets the product name of the assembly containing the control. (Inherited from Control .)
	ProductVersion	Gets the version of the assembly containing the control. (Inherited from Control .)
	ReadOnly	Gets or sets a value indicating whether text in the text box is read-only. (Inherited from

		TextBoxBase.)
	RecreatingHandle	Gets a value indicating whether the control is currently re-creating its handle. (Inherited from Control.)
	Region	Gets or sets the window region associated with the control. (Inherited from Control.)
	RenderRightToLeft	Obsolete. This property is now obsolete. (Inherited from Control.)
	ResizeRedraw	Gets or sets a value indicating whether the control redraws itself when resized. (Inherited from Control.)
	Right	Gets the distance, in pixels, between the right edge of the control and the left edge of its container's client area. (Inherited from Control.)
	RightToLeft	Gets or sets a value indicating whether control's elements are aligned to support locales using right-to-left fonts. (Inherited from Control.)
	ScaleChildren	Gets a value that determines the scaling of child controls. (Inherited from Control.)
	ScrollBars	Gets or sets which scroll bars should appear in a multiline TextBox control.
	SelectedText	Gets or sets a value indicating the currently selected text in the control. (Inherited from TextBoxBase.)
	SelectionLength	Gets or sets the number of characters selected in the text box. (Inherited from TextBoxBase.)
	SelectionStart	Gets or sets the starting point of text selected in the text box. (Inherited from TextBoxBase.)
	ShortcutsEnabled	Gets or sets a value indicating whether the defined shortcuts are enabled. (Inherited from TextBoxBase.)
	ShowFocusCues	Gets a value indicating whether the control should display focus rectangles. (Inherited from Control.)
	ShowKeyboardCues	Gets a value indicating whether the user

		interface is in the appropriate state to show or hide keyboard accelerators. (Inherited from Control .)
	Site	Gets or sets the site of the control. (Inherited from Control .)
	Size	Gets or sets the height and width of the control. (Inherited from Control .)
	TabIndex	Gets or sets the tab order of the control within its container. (Inherited from Control .)
	TabStop	Gets or sets a value indicating whether the user can give the focus to this control using the TAB key. (Inherited from Control .)
	Tag	Gets or sets the object that contains data about the control. (Inherited from Control .)
	Text	Gets or sets the current text in the TextBox . (Overrides TextBoxBase.Text .)
	TextAlign	Gets or sets how text is aligned in a TextBox control.
	TextLength	Gets the length of text in the control. (Inherited from TextBoxBase .)
	Top	Gets or sets the distance, in pixels, between the top edge of the control and the top edge of its container's client area. (Inherited from Control .)
	TopLevelControl	Gets the parent control that is not parented by another Windows Forms control. Typically, this is the outermost Form that the control is contained in. (Inherited from Control .)
	UseSystemPasswordChar	Gets or sets a value indicating whether the text in the TextBox control should appear as the default password character.
	UseWaitCursor	Gets or sets a value indicating whether to use the wait cursor for the current control and all child controls. (Inherited from Control .)
	Visible	Gets or sets a value indicating whether the control and all its child controls are displayed. (Inherited from Control .)
	Width	Gets or sets the width of the control. (Inherited from Control .)

	WindowTarget	Infrastructure. This property is not relevant for this class. (Inherited from Control .)
	WordWrap	Indicates whether a multiline text box control automatically wraps words to the beginning of the next line when necessary. (Inherited from TextBoxBase .)

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Methods

Name	Description
AccessibilityNotifyClients(AccessibleEvents, Int32)	Notifies the accessibility client applications of the specified AccessibleEvents for the specified child control. (Inherited from Control .)
AccessibilityNotifyClients(AccessibleEvents, Int32, Int32)	Notifies the accessibility client applications of the specified AccessibleEvents for the specified child control . (Inherited from Control .)
AppendText	Appends text to the current text of a text box. (Inherited from TextBoxBase .)
BeginInvoke(Delegate)	Executes the specified delegate asynchronously on the thread that the control's underlying handle was created on. (Inherited from Control .)
BeginInvoke(Delegate, Object())	Executes the specified delegate asynchronously with the specified arguments, on the thread that the control's underlying handle was created on. (Inherited from Control .)
BringToFront	Brings the control to the front of the z-order. (Inherited from Control .)
Clear	Clears all text from the text box control. (Inherited from TextBoxBase .)
ClearUndo	Clears information about the most recent operation from the undo buffer of the text box. (Inherited from TextBoxBase .)
Contains	Retrieves a value indicating whether the specified control is a child of the control. (Inherited from Control .)
Copy	Copies the current selection in the text box

		to the Clipboard . (Inherited from TextBoxBase .)
	CreateAccessibilityInstance	Creates a new accessibility object for the control. (Inherited from Control .)
	CreateControl	Forces the creation of the visible control, including the creation of the handle and any visible child controls. (Inherited from Control .)
	CreateControlsInstance	Creates a new instance of the control collection for the control. (Inherited from Control .)
	CreateGraphics	Creates the Graphics for the control. (Inherited from Control .)
	CreateHandle	Creates a handle for the control. (Inherited from TextBoxBase .)
	CreateObjRef	Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject .)
	Cut	Moves the current selection in the text box to the Clipboard . (Inherited from TextBoxBase .)
	DefWndProc	Sends the specified message to the default window procedure. (Inherited from Control .)
	DeselectAll	Specifies that the value of the SelectionLength property is zero so that no characters are selected in the control. (Inherited from TextBoxBase .)
	DestroyHandle	Destroys the handle associated with the control. (Inherited from Control .)
	Dispose	Releases all resources used by the Component . (Inherited from Component .)
	Dispose(Boolean)	Releases the unmanaged resources used by the TextBox and optionally releases the managed resources. (Overrides Control.Dispose(Boolean) .)
	DoDragDrop	Begins a drag-and-drop operation. (Inherited from Control .)
	DrawToBitmap	Supports rendering to the specified bitmap. (Inherited from Control .)

EndInvoke	Retrieves the return value of the asynchronous operation represented by the IAsyncResult passed. (Inherited from Control .)
Equals(Object)	Determines whether the specified Object is equal to the current Object . (Inherited from Object .)
Finalize	Releases unmanaged resources and performs other cleanup operations before the Component is reclaimed by garbage collection. (Inherited from Component .)
FindForm	Retrieves the form that the control is on. (Inherited from Control .)
Focus	Sets input focus to the control. (Inherited from Control .)
GetAccessibilityObjectById	Retrieves the specified AccessibleObject . (Inherited from Control .)
GetAutoSizeMode	Retrieves a value indicating how a control will behave when its AutoSize property is enabled. (Inherited from Control .)
GetCharFromPosition	Retrieves the character that is closest to the specified location within the control. (Inherited from TextBoxBase .)
GetCharIndexFromPosition	Retrieves the index of the character nearest to the specified location. (Inherited from TextBoxBase .)
GetChildAtPoint(Point)	Retrieves the child control that is located at the specified coordinates. (Inherited from Control .)
GetChildAtPoint(Point, GetChildAtPointSkip)	Retrieves the child control that is located at the specified coordinates, specifying whether to ignore child controls of a certain type. (Inherited from Control .)
GetContainerControl	Returns the next ContainerControl up the control's chain of parent controls. (Inherited from Control .)
GetFirstCharIndexFromLine	Retrieves the index of the first character of a given line. (Inherited from TextBoxBase .)
GetFirstCharIndexOfCurrentLine	Retrieves the index of the first character of the current line. (Inherited from TextBoxBase .)

GetHashCode	Serves as a hash function for a particular type. (Inherited from Object .)
GetLifetimeService	Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject .)
GetLineFromCharIndex	Retrieves the line number from the specified character position within the text of the control. (Inherited from TextBoxBase .)
GetNextControl	Retrieves the next control forward or back in the tab order of child controls. (Inherited from Control .)
GetPositionFromCharIndex	Retrieves the location within the control at the specified character index. (Inherited from TextBoxBase .)
GetPreferredSize	Retrieves the size of a rectangular area into which a control can be fitted. (Inherited from Control .)
GetScaledBounds	Retrieves the bounds within which the control is scaled. (Inherited from Control .)
GetService	Returns an object that represents a service provided by the Component or by its Container . (Inherited from Component .)
GetStyle	Retrieves the value of the specified control style bit for the control. (Inherited from Control .)
GetTopLevel	Determines if the control is a top-level control. (Inherited from Control .)
GetType	Gets the Type of the current instance. (Inherited from Object .)
Hide	Conceals the control from the user. (Inherited from Control .)
InitializeLifetimeService	Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject .)
InitLayout	Called after the control has been added to another container. (Inherited from Control .)
Invalidate	Invalidates the entire surface of the control and causes the control to be redrawn.

		(Inherited from Control .)
	Invalidate(Boolean)	Invalidates a specific region of the control and causes a paint message to be sent to the control. Optionally, invalidates the child controls assigned to the control. (Inherited from Control .)
	Invalidate(Rectangle)	Invalidates the specified region of the control (adds it to the control's update region, which is the area that will be repainted at the next paint operation), and causes a paint message to be sent to the control. (Inherited from Control .)
	Invalidate(Region)	Invalidates the specified region of the control (adds it to the control's update region, which is the area that will be repainted at the next paint operation), and causes a paint message to be sent to the control. (Inherited from Control .)
	Invalidate(Rectangle, Boolean)	Invalidates the specified region of the control (adds it to the control's update region, which is the area that will be repainted at the next paint operation), and causes a paint message to be sent to the control. Optionally, invalidates the child controls assigned to the control. (Inherited from Control .)
	Invalidate(Region, Boolean)	Invalidates the specified region of the control (adds it to the control's update region, which is the area that will be repainted at the next paint operation), and causes a paint message to be sent to the control. Optionally, invalidates the child controls assigned to the control. (Inherited from Control .)
	Invoke(Delegate)	Executes the specified delegate on the thread that owns the control's underlying window handle. (Inherited from Control .)
	Invoke(Delegate, Object())	Executes the specified delegate, on the thread that owns the control's underlying window handle, with the specified list of arguments. (Inherited from Control .)
	InvokeGotFocus	Raises the GotFocus event for the specified control. (Inherited from Control .)
	InvokeLostFocus	Raises the LostFocus event for the specified control. (Inherited from Control .)

InvokeOnClick	Raises the Click event for the specified control. (Inherited from Control .)
InvokePaint	Raises the Paint event for the specified control. (Inherited from Control .)
InvokePaintBackground	Raises the PaintBackground event for the specified control. (Inherited from Control .)
IsInputChar	Determines if a character is an input character that the control recognizes. (Inherited from Control .)
IsInputKey	Determines whether the specified key is an input key or a special key that requires preprocessing. (Overrides TextBoxBase.IsInputKey(Keys) .)
MemberwiseClone	Creates a shallow copy of the current Object . (Inherited from Object .)
MemberwiseClone(Boolean)	Creates a shallow copy of the current MarshalByRefObject object. (Inherited from MarshalByRefObject .)
NotifyInvalidate	Infrastructure. Raises the Invalidated event with a specified region of the control to invalidate. (Inherited from Control .)
OnAcceptsTabChanged	Raises the AcceptsTabChanged event. (Inherited from TextBoxBase .)
OnAutoSizeChanged	Raises the AutoSizeChanged event. (Inherited from Control .)
OnBackColorChanged	Raises the BackColorChanged event. (Overrides Control.OnBackColorChanged(EventArgs) .)
OnBackgroundImageChanged	Raises the BackgroundImageChanged event. (Inherited from Control .)
OnBackgroundImageLayoutChanged	Raises the BackgroundImageLayoutChanged event. (Inherited from Control .)
OnBindingContextChanged	Raises the BindingContextChanged event. (Inherited from Control .)
OnBorderStyleChanged	Raises the BorderStyleChanged event. (Inherited from TextBoxBase .)
OnCausesValidationChanged	Raises the CausesValidationChanged event. (Inherited from Control .)

OnChangeUICues	Raises the ChangeUICues event. (Inherited from Control .)
OnClick	Raises the Click event. (Inherited from Control .)
OnClientSizeChanged	Raises the ClientSizeChanged event. (Inherited from Control .)
OnContextMenuChanged	Raises the ContextMenuChanged event. (Inherited from Control .)
OnContextMenuStripChanged	Raises the ContextMenuStripChanged event. (Inherited from Control .)
OnControlAdded	Raises the ControlAdded event. (Inherited from Control .)
OnControlRemoved	Raises the ControlRemoved event. (Inherited from Control .)
OnCreateControl	Raises the CreateControl method. (Inherited from Control .)
OnCursorChanged	Raises the CursorChanged event. (Inherited from Control .)
OnDockChanged	Raises the DockChanged event. (Inherited from Control .)
OnDoubleClick	Raises the DoubleClick event. (Inherited from Control .)
OnDragDrop	Raises the DragDrop event. (Inherited from Control .)
OnDragEnter	Raises the DragEnter event. (Inherited from Control .)
OnDragLeave	Raises the DragLeave event. (Inherited from Control .)
OnDragOver	Raises the DragOver event. (Inherited from Control .)
OnEnabledChanged	Raises the EnabledChanged event. (Inherited from Control .)
OnEnter	Raises the Enter event. (Inherited from Control .)
OnFontChanged	Raises the FontChanged event. (Overrides TextBoxBase.OnFontChanged(EventArgs) .)

OnForeColorChanged	Raises the ForeColorChanged event. (Inherited from Control .)
OnGiveFeedback	Raises the GiveFeedback event. (Inherited from Control .)
OnGotFocus	Raises the GotFocus event. (Overrides Control.OnGotFocus(EventArgs) .)
OnHandleCreated	Raises the HandleCreated event. (Overrides TextBoxBase.OnHandleCreated(EventArgs) .)
OnHandleDestroyed	Raises the OnHandleDestroyed event. (Overrides TextBoxBase.OnHandleDestroyed(EventArgs) .)
OnHelpRequested	Raises the HelpRequested event. (Inherited from Control .)
OnHideSelectionChanged	Raise the HideSelectionChanged event. (Inherited from TextBoxBase .)
OnImeModeChanged	Raises the ImeModeChanged event. (Inherited from Control .)
OnInvalidated	Raises the Invalidated event. (Inherited from Control .)
OnKeyDown	Raises the KeyDown event. (Inherited from Control .)
OnKeyPress	Raises the KeyPress event. (Inherited from Control .)
OnKeyUp	Raises the KeyUp event. (Inherited from Control .)
OnLayout	Raises the Layout event. (Inherited from Control .)
OnLeave	Raises the Leave event. (Inherited from Control .)
OnLocationChanged	Raises the LocationChanged event. (Inherited from Control .)
OnLostFocus	Raises the LostFocus event. (Inherited from Control .)
OnMarginChanged	Raises the MarginChanged event. (Inherited from Control .)

OnModifiedChanged	Raises the ModifiedChanged event. (Inherited from TextBoxBase .)
OnMouseCaptureChanged	Raises the MouseCaptureChanged event. (Inherited from Control .)
OnMouseClicked	Raises the MouseClicked event. (Inherited from Control .)
OnMouseDoubleClick	Raises the MouseDoubleClick event. (Inherited from Control .)
OnMouseDown	Raises the MouseDown event. (Inherited from Control .)
OnMouseEnter	Raises the MouseEnter event. (Inherited from Control .)
OnMouseHover	Raises the MouseHover event. (Inherited from Control .)
OnMouseLeave	Raises the MouseLeave event. (Inherited from Control .)
OnMouseMove	Raises the MouseMove event. (Inherited from Control .)
OnMouseUp	Raises the MouseUp event. (Inherited from TextBoxBase .)
OnMouseWheel	Raises the MouseWheel event. (Inherited from Control .)
OnMove	Raises the Move event. (Inherited from Control .)
OnMultilineChanged	Raises the MultilineChanged event. (Inherited from TextBoxBase .)
OnNotifyMessage	Notifies the control of Windows messages. (Inherited from Control .)
OnPaddingChanged	Infrastructure. This method is not relevant for this class. (Inherited from TextBoxBase .)
OnPaint	Raises the Paint event. (Inherited from Control .)
OnPaintBackground	Paints the background of the control. (Inherited from Control .)
OnParentBackColorChanged	Raises the BackColorChanged event when the BackColor property value of the control's

		container changes. (Inherited from Control .)
	OnParentBackgroundImageChanged	Raises the BackgroundImageChanged event when the BackgroundImage property value of the control's container changes. (Inherited from Control .)
	OnParentBindingContextChanged	Raises the BindingContextChanged event when the BindingContext property value of the control's container changes. (Inherited from Control .)
	OnParentChanged	Raises the ParentChanged event. (Inherited from Control .)
	OnParentCursorChanged	Raises the CursorChanged event. (Inherited from Control .)
	OnParentEnabledChanged	Raises the EnabledChanged event when the Enabled property value of the control's container changes. (Inherited from Control .)
	OnParentFontChanged	Raises the FontChanged event when the Font property value of the control's container changes. (Inherited from Control .)
	OnParentForeColorChanged	Raises the ForeColorChanged event when the ForeColor property value of the control's container changes. (Inherited from Control .)
	OnParentRightToLeftChanged	Raises the RightToLeftChanged event when the RightToLeft property value of the control's container changes. (Inherited from Control .)
	OnParentVisibleChanged	Raises the VisibleChanged event when the Visible property value of the control's container changes. (Inherited from Control .)
	OnPreviewKeyDown	Raises the PreviewKeyDown event. (Inherited from Control .)
	OnPrint	Raises the Paint event. (Inherited from Control .)
	OnQueryContinueDrag	Raises the QueryContinueDrag event. (Inherited from Control .)
	OnReadOnlyChanged	Raises the ReadOnlyChanged event. (Inherited from TextBoxBase .)
	OnRegionChanged	Raises the RegionChanged event. (Inherited from Control .)

OnResize	Raises the Resize event. (Inherited from Control .)
OnRightToLeftChanged	Raises the RightToLeftChanged event. (Inherited from Control .)
OnSizeChanged	Raises the SizeChanged event. (Inherited from Control .)
OnStyleChanged	Raises the StyleChanged event. (Inherited from Control .)
OnSystemColorsChanged	Raises the SystemColorsChanged event. (Inherited from Control .)
OnTabIndexChanged	Raises the TabIndexChanged event. (Inherited from Control .)
OnTabStopChanged	Raises the TabStopChanged event. (Inherited from Control .)
OnTextAlignChanged	Raises the TextAlignChanged event.
OnTextChanged	Raises the TextChanged event. (Inherited from TextBoxBase .)
OnValidated	Raises the Validated event. (Inherited from Control .)
OnValidating	Raises the Validating event. (Inherited from Control .)
OnVisibleChanged	Raises the VisibleChanged event. (Inherited from Control .)
Paste	Replaces the current selection in the text box with the contents of the Clipboard . (Inherited from TextBoxBase .)
Paste(String)	Sets the selected text to the specified text without clearing the undo buffer.
PerformLayout	Forces the control to apply layout logic to all its child controls. (Inherited from Control .)
PerformLayout(Control, String)	Forces the control to apply layout logic to all its child controls. (Inherited from Control .)
PointToClient	Computes the location of the specified screen point into client coordinates. (Inherited from Control .)
PointToScreen	Computes the location of the specified client

		point into screen coordinates. (Inherited from Control .)
	PreProcessControlMessage	Preprocesses keyboard or input messages within the message loop before they are dispatched. (Inherited from Control .)
	PreProcessMessage	Preprocesses keyboard or input messages within the message loop before they are dispatched. (Inherited from Control .)
	ProcessCmdKey	Processes a command key. (Inherited from TextBoxBase .)
	ProcessDialogChar	Processes a dialog character. (Inherited from Control .)
	ProcessDialogKey	Processes a dialog key. (Inherited from TextBoxBase .)
	ProcessKeyEventArgs	Processes a key message and generates the appropriate control events. (Inherited from Control .)
	ProcessKeyMessage	Processes a keyboard message. (Inherited from Control .)
	ProcessKeyPreview	Previews a keyboard message. (Inherited from Control .)
	ProcessMnemonic	Processes a mnemonic character. (Inherited from Control .)
	RaiseDragEvent	Infrastructure. Raises the appropriate drag event. (Inherited from Control .)
	RaiseKeyEvent	Infrastructure. Raises the appropriate key event. (Inherited from Control .)
	RaiseMouseEvent	Infrastructure. Raises the appropriate mouse event. (Inherited from Control .)
	RaisePaintEvent	Infrastructure. Raises the appropriate paint event. (Inherited from Control .)
	RecreateHandle	Forces the re-creation of the handle for the control. (Inherited from Control .)
	RectangleToClient	Computes the size and location of the specified screen rectangle in client coordinates. (Inherited from Control .)
	RectangleToScreen	Computes the size and location of the specified client rectangle in screen

		coordinates. (Inherited from Control .)
	Refresh	Forces the control to invalidate its client area and immediately redraw itself and any child controls. (Inherited from Control .)
	ResetBackColor	Resets the BackColor property to its default value. (Inherited from Control .)
	ResetBindings	Causes a control bound to the BindingSource to reread all the items in the list and refresh their displayed values. (Inherited from Control .)
	ResetCursor	Resets the Cursor property to its default value. (Inherited from Control .)
	ResetFont	Resets the Font property to its default value. (Inherited from Control .)
	ResetForeColor	Resets the ForeColor property to its default value. (Inherited from Control .)
	ResetImeMode	Resets the ImeMode property to its default value. (Inherited from Control .)
	ResetMouseEventArgs	Infrastructure. Resets the control to handle the MouseLeave event. (Inherited from Control .)
	ResetRightToLeft	Resets the RightToLeft property to its default value. (Inherited from Control .)
	ResetText	Resets the Text property to its default value. (Inherited from Control .)
	ResumeLayout	Resumes usual layout logic. (Inherited from Control .)
	ResumeLayout(Boolean)	Resumes usual layout logic, optionally forcing an immediate layout of pending layout requests. (Inherited from Control .)
	RtlTranslateAlignment(ContentAlignment)	Converts the specified ContentAlignment to the appropriate ContentAlignment to support right-to-left text. (Inherited from Control .)
	RtlTranslateAlignment(HorizontalAlignment)	Converts the specified HorizontalAlignment to the appropriate HorizontalAlignment to support right-to-left text. (Inherited from Control .)
	RtlTranslateAlignment(LeftRightAlignment)	Converts the specified LeftRightAlignment to

		the appropriate LeftRightAlignment to support right-to-left text. (Inherited from Control .)
	RtlTranslateContent	Converts the specified ContentAlignment to the appropriate ContentAlignment to support right-to-left text. (Inherited from Control .)
	RtlTranslateHorizontal	Converts the specified HorizontalAlignment to the appropriate HorizontalAlignment to support right-to-left text. (Inherited from Control .)
	RtlTranslateLeftRight	Converts the specified LeftRightAlignment to the appropriate LeftRightAlignment to support right-to-left text. (Inherited from Control .)
	Scale(Single)	Obsolete. Scales the control and any child controls. (Inherited from Control .)
	Scale(SizeF)	Scales the control and all child controls by the specified scaling factor. (Inherited from Control .)
	Scale(Single, Single)	Obsolete. Scales the entire control and any child controls. (Inherited from Control .)
	ScaleControl	Scales a control's location, size, padding and margin. (Inherited from Control .)
	ScaleCore	Infrastructure. This method is not relevant for this class. (Inherited from Control .)
	ScrollToCaret	Scrolls the contents of the control to the current caret position. (Inherited from TextBoxBase .)
	Select	Activates the control. (Inherited from Control .)
	Select(Boolean, Boolean)	Activates a child control. Optionally specifies the direction in the tab order to select the control from. (Inherited from Control .)
	Select(Int32, Int32)	Selects a range of text in the text box. (Inherited from TextBoxBase .)
	SelectAll	Selects all text in the text box. (Inherited from TextBoxBase .)
	SelectNextControl	Activates the next control. (Inherited from Control .)
	SendToBack	Sends the control to the back of the z-order. (Inherited from Control .)

SetAutoSizeMode	Sets a value indicating how a control will behave when its AutoSize property is enabled. (Inherited from Control .)
SetBounds(Int32, Int32, Int32, Int32)	Sets the bounds of the control to the specified location and size. (Inherited from Control .)
SetBounds(Int32, Int32, Int32, Int32, BoundsSpecified)	Sets the specified bounds of the control to the specified location and size. (Inherited from Control .)
SetBoundsCore	Sets the specified bounds of the TextBoxBase control. (Inherited from TextBoxBase .)
SetClientSizeCore	Sets the size of the client area of the control. (Inherited from Control .)
SetStyle	Sets a specified ControlStyles flag to either true or false . (Inherited from Control .)
SetTopLevel	Sets the control as the top-level control. (Inherited from Control .)
SetVisibleCore	Sets the control to the specified visible state. (Inherited from Control .)
Show	Displays the control to the user. (Inherited from Control .)
SizeFromClientSize	Determines the size of the entire control from the height and width of its client area. (Inherited from Control .)
SuspendLayout	Temporarily suspends the layout logic for the control. (Inherited from Control .)
ToString	Infrastructure. Returns a string that represents the TextBoxBase control. (Inherited from TextBoxBase .)
Undo	Undoes the last edit operation in the text box. (Inherited from TextBoxBase .)
Update	Causes the control to redraw the invalidated regions within its client area. (Inherited from Control .)
UpdateBounds	Updates the bounds of the control with the current size and location. (Inherited from Control .)

UpdateBounds(Int32, Int32, Int32, Int32)	Updates the bounds of the control with the specified size and location. (Inherited from Control .)
UpdateBounds(Int32, Int32, Int32, Int32, Int32, Int32)	Updates the bounds of the control with the specified size, location, and client size. (Inherited from Control .)
UpdateStyles	Forces the assigned styles to be reapplied to the control. (Inherited from Control .)
UpdateZOrder	Updates the control in its parent's z-order. (Inherited from Control .)
WndProc	Processes Windows messages. (Overrides TextBoxBase.WndProc(Message) .)

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Events

	Name	Description
	AcceptsTabChanged	Occurs when the value of the AcceptsTab property has changed. (Inherited from TextBoxBase .)
	AutoSizeChanged	Infrastructure. This event is not relevant for this class. (Inherited from TextBoxBase .)
	BackColorChanged	Occurs when the value of the BackColor property changes. (Inherited from Control .)
	BackgroundImageChanged	Infrastructure. Occurs when the value of the BackgroundImage property changes. This event is not relevant for this class. (Inherited from TextBoxBase .)
	BackgroundImageLayoutChanged	Infrastructure. Occurs when the value of the BackgroundImageLayout property changes. This event is not relevant for this class. (Inherited from TextBoxBase .)
	BindingContextChanged	Occurs when the value of the BindingContext property changes. (Inherited from Control .)
	BorderStyleChanged	Occurs when the value of the BorderStyle property has changed. (Inherited from TextBoxBase .)
	CausesValidationChanged	Occurs when the value of the CausesValidation property changes. (Inherited from Control .)

	ChangeUICues	Occurs when the focus or keyboard user interface (UI) cues change. (Inherited from Control .)
	Click	Occurs when the text box is clicked. (Inherited from TextBoxBase .)
	ClientSizeChanged	Occurs when the value of the ClientSize property changes. (Inherited from Control .)
	ContextMenuChanged	Occurs when the value of the ContextMenu property changes. (Inherited from Control .)
	ContextMenuStripChanged	Occurs when the value of the ContextMenuStrip property changes. (Inherited from Control .)
	ControlAdded	Occurs when a new control is added to the Control.ControlCollection . (Inherited from Control .)
	ControlRemoved	Occurs when a control is removed from the Control.ControlCollection . (Inherited from Control .)
	CursorChanged	Occurs when the value of the Cursor property changes. (Inherited from Control .)
	Disposed	Occurs when the component is disposed by a call to the Dispose method. (Inherited from Component .)
	DockChanged	Occurs when the value of the Dock property changes. (Inherited from Control .)
	DoubleClick	Occurs when the control is double-clicked. (Inherited from Control .)
	DragDrop	Occurs when a drag-and-drop operation is completed. (Inherited from Control .)
	DragEnter	Occurs when an object is dragged into the control's bounds. (Inherited from Control .)
	DragLeave	Occurs when an object is dragged out of the control's bounds. (Inherited from Control .)
	DragOver	Occurs when an object is dragged over the control's bounds. (Inherited from Control .)
	EnabledChanged	Occurs when the Enabled property value has changed. (Inherited from Control .)

	Enter	Occurs when the control is entered. (Inherited from Control .)
	FontChanged	Occurs when the Font property value changes. (Inherited from Control .)
	ForeColorChanged	Occurs when the ForeColor property value changes. (Inherited from Control .)
	GiveFeedback	Occurs during a drag operation. (Inherited from Control .)
	GotFocus	Occurs when the control receives focus. (Inherited from Control .)
	HandleCreated	Occurs when a handle is created for the control. (Inherited from Control .)
	HandleDestroyed	Occurs when the control's handle is in the process of being destroyed. (Inherited from Control .)
	HelpRequested	Occurs when the user requests help for a control. (Inherited from Control .)
	HideSelectionChanged	Occurs when the value of the HideSelection property has changed. (Inherited from TextBoxBase .)
	ImeModeChanged	Occurs when the ImeMode property has changed. (Inherited from Control .)
	Invalidated	Occurs when a control's display requires redrawing. (Inherited from Control .)
	KeyDown	Occurs when a key is pressed while the control has focus. (Inherited from Control .)
	KeyPress	Occurs when a key is pressed while the control has focus. (Inherited from Control .)
	KeyUp	Occurs when a key is released while the control has focus. (Inherited from Control .)
	Layout	Occurs when a control should reposition its child controls. (Inherited from Control .)
	Leave	Occurs when the input focus leaves the control. (Inherited from Control .)
	LocationChanged	Occurs when the Location property value has changed. (Inherited from Control .)

LostFocus	Occurs when the control loses focus. (Inherited from Control .)
MarginChanged	Occurs when the control's margin changes. (Inherited from Control .)
ModifiedChanged	Occurs when the value of the Modified property has changed. (Inherited from TextBoxBase .)
MouseCaptureChanged	Occurs when the control loses mouse capture. (Inherited from Control .)
MouseClicked	Occurs when the control is clicked by the mouse. (Inherited from TextBoxBase .)
MouseDoubleClick	Occurs when the control is double clicked by the mouse. (Inherited from Control .)
MouseDown	Occurs when the mouse pointer is over the control and a mouse button is pressed. (Inherited from Control .)
MouseEnter	Occurs when the mouse pointer enters the control. (Inherited from Control .)
MouseHover	Occurs when the mouse pointer rests on the control. (Inherited from Control .)
MouseLeave	Occurs when the mouse pointer leaves the control. (Inherited from Control .)
MouseMove	Occurs when the mouse pointer is moved over the control. (Inherited from Control .)
MouseUp	Occurs when the mouse pointer is over the control and a mouse button is released. (Inherited from Control .)
MouseWheel	Occurs when the mouse wheel moves while the control has focus. (Inherited from Control .)
Move	Occurs when the control is moved. (Inherited from Control .)
MultilineChanged	Occurs when the value of the Multiline property has changed. (Inherited from TextBoxBase .)
PaddingChanged	Infrastructure. This event is not relevant for this class. (Inherited from TextBoxBase .)
Paint	Infrastructure. Occurs when the control is

		redrawn. This event is not relevant for this class. (Inherited from TextBoxBase .)
	ParentChanged	Occurs when the Parent property value changes. (Inherited from Control .)
	PreviewKeyDown	Occurs before the KeyDown event when a key is pressed while focus is on this control. (Inherited from Control .)
	QueryAccessibilityHelp	Occurs when AccessibleObject is providing help to accessibility applications. (Inherited from Control .)
	QueryContinueDrag	Occurs during a drag-and-drop operation and enables the drag source to determine whether the drag-and-drop operation should be canceled. (Inherited from Control .)
	ReadOnlyChanged	Occurs when the value of the ReadOnly property has changed. (Inherited from TextBoxBase .)
	RegionChanged	Occurs when the value of the Region property changes. (Inherited from Control .)
	Resize	Occurs when the control is resized. (Inherited from Control .)
	RightToLeftChanged	Occurs when the RightToLeft property value changes. (Inherited from Control .)
	SizeChanged	Occurs when the Size property value changes. (Inherited from Control .)
	StyleChanged	Occurs when the control style changes. (Inherited from Control .)
	SystemColorsChanged	Occurs when the system colors change. (Inherited from Control .)
	TabIndexChanged	Occurs when the TabIndex property value changes. (Inherited from Control .)
	TabStopChanged	Occurs when the TabStop property value changes. (Inherited from Control .)
	TextAlignChanged	Occurs when the value of the TextAlign property has changed.
	TextChanged	Occurs when the Text property value changes. (Inherited from Control .)

	Validated	Occurs when the control is finished validating. (Inherited from Control .)
	Validating	Occurs when the control is validating. (Inherited from Control .)
	VisibleChanged	Occurs when the Visible property value changes. (Inherited from Control .)

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Explicit Interface Implementations

	Name	Description
	IDropTarget.OnDragDrop	Infrastructure. Raises the DragDrop event. (Inherited from Control .)
	IDropTarget.OnDragEnter	Infrastructure. Raises the DragEnter event. (Inherited from Control .)
	IDropTarget.OnDragLeave	Infrastructure. Raises the DragLeave event. (Inherited from Control .)
	IDropTarget.OnDragOver	Infrastructure. Raises the DragOver event. (Inherited from Control .)

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Remarks

With the **TextBox** control, the user can enter text in an application. This control has additional functionality that is not found in the standard Windows text box control, including multiline editing and password character masking.

Typically, a **TextBox** control is used to display, or accept as input, a single line of text. You can use the [Multiline](#) and [ScrollBars](#) properties to enable multiple lines of text to be displayed or entered. Set the [AcceptsTab](#) and [AcceptsReturn](#) properties to **true** to enable greater text manipulation in a multiline **TextBox** control.

Note

You must set the [Multiline](#) property to **true** to adjust the height of the **TextBox** control. You can adjust the height by setting the [Size](#) property.

You can limit the amount of text entered into a **TextBox** control by setting the [MaxLength](#) property to a specific number of characters. **TextBox** controls can also be used to accept passwords and other sensitive information. You can use the [PasswordChar](#) property to mask characters entered in a single-line version of the control. Use the [CharacterCasing](#) property to enable the user to type only uppercase, only lowercase, or a combination of uppercase and lowercase characters into the **TextBox** control.

To scroll the contents of the **TextBox** until the cursor (caret) is within the visible region of the control, you can use the [ScrollToCaret](#) method. To select a range of text in the text box, you can use the [Select](#) method.

To restrict text from being entered in a **TextBox** control, you can create an event handler for the [KeyDown](#) event in order to validate each character entered in the control. You can also restrict all entry of data in a **TextBox** control by setting the [ReadOnly](#) property to **true**.

Note

Most of the functionality of the **TextBox** control is inherited from the [TextBoxBase](#) class.

Using the **TextBox** control with visual styles enabled will cause the incorrect handling of surrogate fonts.

Examples

The following code example creates a multiline **TextBox** control with vertical scroll bars. This example uses the [AcceptsTab](#), [AcceptsReturn](#), and [Dock](#) properties to make the multiline text box control useful for creating text documents.

C#

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

public class Form1 : Form
{
    private TextBox textBox1;

    public Form1()
    {
        InitializeComponent();
    }

    private void InitializeComponent()
    {
        this.textBox1 = new System.Windows.Forms.TextBox();
        this.SuspendLayout();
        //
        // textBox1
        //
        this.textBox1.AcceptsReturn = true;
        this.textBox1.AcceptsTab = true;
        this.textBox1.Dock = System.Windows.Forms.DockStyle.Fill;
        this.textBox1.Multiline = true;
        this.textBox1.ScrollBars = System.Windows.Forms.ScrollBars.Vertical;
        //
        // Form1
        //
        this.ClientSize = new System.Drawing.Size(284, 264);
        this.Controls.Add(this.textBox1);
        this.Text = "TextBox Example";
        this.ResumeLayout(false);
        this.PerformLayout();
    }

    [STAThread]
    static void Main()
    {
        Application.EnableVisualStyles();
        Application.SetCompatibleTextRenderingDefault(false);
        Application.Run(new Form1());
    }
}
```

```
}  
}
```

Version Information

.NET Framework

Supported in: 4, 3.5, 3.0, 2.0, 1.1, 1.0

.NET Framework Client Profile

Supported in: 4, 3.5 SP1

Platforms

Windows 7, Windows Vista SP1 or later, Windows XP SP3, Windows XP SP2 x64 Edition, Windows Server 2008 (Server Core not supported), Windows Server 2008 R2 (Server Core supported with SP1 or later), Windows Server 2003 SP2

The .NET Framework does not support all versions of every platform. For a list of the supported versions, see [.NET Framework System Requirements](#).

Thread Safety

Any public **static** (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.

See Also

Reference

[System.Windows.Forms Namespace](#)
[TextBoxBase](#)

Did you find this helpful? ☐ Yes ☐ No

Community Content

vb6.textbox

we want to know what type of textbox in vb6 softwear

8/26/2010
arun maskar

