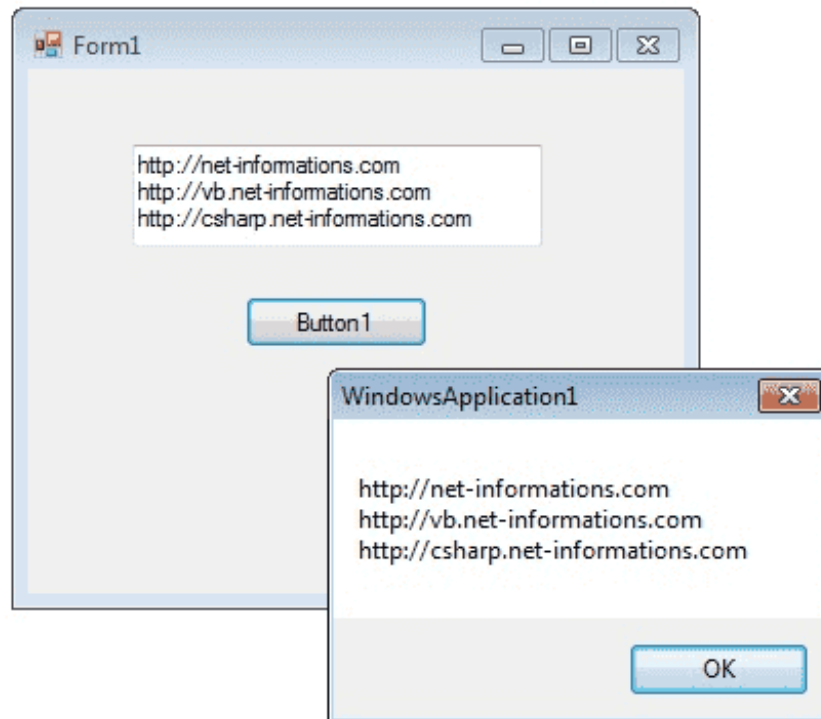


C# TextBox Control

A TextBox control is used to display, or accept as input, a single line of text. This control has additional functionality that is not found in the standard Windows text box control, including multiline editing and password character masking.



A text box object is used to display text on a form or to get user input while a C# program is running. In a text box, a user can type data or paste it into the control from the clipboard.

For displaying a text in a TextBox control , you can code like this

```
textBox1.Text = "http://csharp.net-informations.com";
```

You can also collect the input value from a TextBox control to a variable like this way

```
string var;  
var = textBox1.Text;
```

C# TextBox Properties

You can set TextBox properties through Property window or through program. You can open Properties window by pressing F4 or right click on a control and select Properties menu item

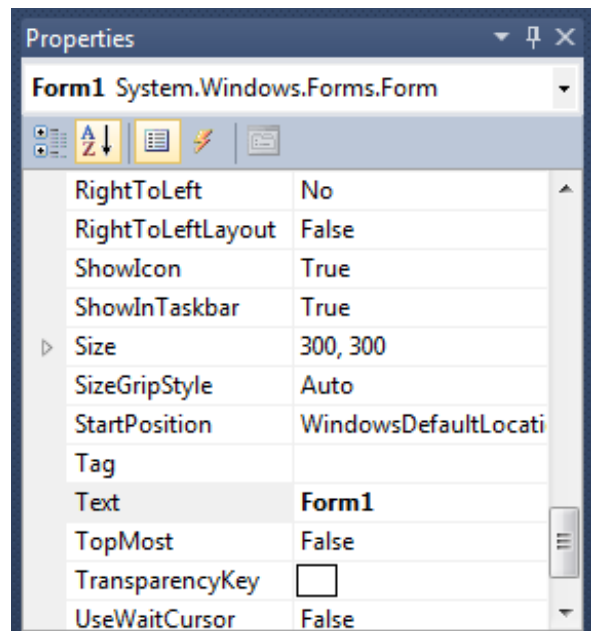
The below code set a textbox width as 250 and height as 50 through source code.

```
<span class="text-node">
    textBox1.Width = 250;
    textBox1.Height = 50;
</span>
```

Background Color and Foreground Color

You can set background color and foreground color through property window and programmatically.

```
<span class="text-node">
    textBox1.BackColor = Color.Blue;
    textBox1.ForeColor = Color.White;
</span>
```



Textbox BorderStyle

You can set 3 different types of border style for textbox, they are None, FixedSingle and fixed3d.

```
<span class="text-node">
    textBox1.BorderStyle = BorderStyle.Fixed3D;
</span>
```

TextBox Events

Keydown event

You can capture which key is pressed by the user using KeyDown event

e.g.

```
private void textBox1_KeyDown(object sender, KeyEventArgs e)
{
    if (e.KeyCode == Keys.Enter)
    {
        MessageBox.Show("You press Enter Key");
    }
    if (e.KeyCode == Keys.CapsLock)
    {
        MessageBox.Show("You press Caps Lock Key");
    }
}
```

TextChanged Event

When user input or setting the Text property to a new value raises the TextChanged event

e.g.

```
private void textBox1_TextChanged(object sender, EventArgs e)
{
    label1.Text = textBox1.Text;
}
```

Textbox Maximum Length

Sets the maximum number of characters or words the user can input into the text box control.

```
<span class="text-node">
    textBox1.MaxLength = 40;
</span>
```

Textbox ReadOnly

When a program wants to prevent a user from changing the text that appears in a text box, the program can set the controls Read-only property is to True.

```
<span class="text-node">
    textBox1.ReadOnly = true;
</span>
```

Multiline TextBox

You can use the Multiline and ScrollBars properties to enable multiple lines of text to be displayed or entered.

```
<span class="text-node">
    textBox1.Multiline = true;
</span>
```

Textbox password character

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

```
<span class="text-node">
    textBox1.PasswordChar = '*';
</span>
```

The above code set the PasswordChar to * , so when the user enter password then it display only * instead of typed characters.

How to Newline in a TextBox

You can add new line in a textbox using many ways.

```
<span class="text-node">
    textBox1.Text += "your text" + "\r\n";
</span>
```

or

```
<span class="text-node">
    textBox1.Text += "your text" + Environment.NewLine;
</span>
```

How to retrieve integer values from textbox ?

```
<span class="text-node">
    int i;
    i = int.Parse (textBox1.Text);
</span>
```

Parse method Converts the string representation of a number to its integer equivalent.

String to Float conversion

```
<span class="text-node">
    float i;
    i = float.Parse (textBox1.Text);
</span>
```

String to Double conversion

```
<span class="text-node">
    double i;
    i = float.Parse (textBox1.Text);
</span>
```

How to allow only numbers in a textbox

Many of us have faced a situation where we want the user to enter a number in a TextBox. Click the following link that are going to make a Numeric Textbox which will accept only numeric values; if there are any values except numeric. More about.... [How do I make a textbox that only accepts numbers](#)

From the following C# source code you can see some important property settings to a TextBox control.

```

using System;
using System.Drawing;
using System.Windows.Forms;

namespace WindowsFormsApplication1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();

            private void Form1_Load(object sender, EventArgs e)
            {
                textBox1.Width = 250;
                textBox1.Height = 50;
                textBox1.Multiline = true;
                textBox1.BackColor = Color.Blue;
                textBox1.ForeColor = Color.White;
                textBox1.BorderStyle = BorderStyle.Fixed3D;
            }

            private void button1_Click(object sender, EventArgs e)
            {
                string var;
                var = textBox1.Text;
                MessageBox.Show(var);
            }
        }
    }
}

```