

How do I make an Event in the UserControl and have it handled in the Main Form?

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I have a custom usercontrol and I want to do something relatively simple.

55



When ever a numeric up down in that usercontrol's value changes, have the main form update a display window.



23

This is not a problem if the NUD was not in a usercontrol but I can't seem to figure out how to have the event handled by the mainform and not the usercontrol.

[c#](#)[winforms](#)[user-controls](#)[event-handling](#)

edited Apr 5 '18 at 2:09



Cœur

19.8k

10

117

158

asked Oct 24 '11 at 19:28



Crash893

4,884

19

78

116

- 1 possible duplicate of [Winforms user controls custom events](#) – [John Saunders](#) Oct 24 '11 at 19:34

4 Answers

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118



that is raised when an event from within the user control is fired. This will allow you to bubble the event up the chain so you can handle the event from the form.

When clicking `Button1` on the `UserControl`, i'll fire `Button1_Click` which triggers `UserControl_ButtonClick` on the form:

User control:

```
public event EventHandler ButtonClick;

protected void Button1_Click(object sender, EventArgs e)
{
    //bubble the event up to the parent
    if (this.ButtonClick != null)
        this.ButtonClick(this, e);
}
```

Form:

```
UserControl1.ButtonClick += new EventHandler(UserControl_E

protected void UserControl_ButtonClick(object sender, Ever
{
    //handle the event
}
```

edited Oct 14 '16 at 22:47



[ThunderWiring](#)

476 1 4 21

answered Oct 24 '11 at 19:31



[James Johnson](#)

40.8k 6 63 101

3 I can't make the edit, but would you change `UserControl1.OnButtonClick` to

very useful , thaks – [Saeid Doroudi](#) Jul 16 '16 at 4:57

- 1 please edit the code of the form: ButtonClick instead of OnButtonClick – [ThunderWiring](#) Oct 12 '16 at 14:36

I am having trouble getting this to work on user control instances that are inside repeater control that generates them on the OnItemDatabound event. It is as if the UserControl1.ButtonClick += new EventHandler(UserControl_ButtonClick); part is not doing anything. if (this.ButtonClick!= null) always returns false. – [Osprey](#) May 28 '17 at 14:24

- 1 @Osprey: Inside of a repeater, you would probably want to add the handler declaratively in the markup, e.g. `<asp:Button runat="server" OnClick="btnTest_Click" />` . Otherwise, you would need to find the user control during data binding of the repeater and attach the event handler there. – [James Johnson](#) Jun 2 '17 at 19:34



Try mapping it. Try placing this code in your UserControl :

18



```
public event EventHandler ValueChanged {
    add { numericUpDown1.ValueChanged += value; }
    remove { numericUpDown1.ValueChanged -= value; }
}
```

then your UserControl will have the ValueChanged event you normally see with the NumericUpDown control.

answered Oct 24 '11 at 19:32



[LarsTech](#)

70.9k 12 113 162

- 1 Don't use the new keyword here. – [Hans Passant](#) Oct 24 '11 at 19:35

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you can do like this.....the below example shows text box(user control) value changed

11



```
// Declare a delegate
public delegate void ValueChangedEventHandler(object sender, EventArgs e);

public partial class SampleUserControl : TextBox
{
    public SampleUserControl()
    {
        InitializeComponent();
    }

    // Declare an event
    public event ValueChangedEventHandler ValueChanged;

    protected virtual void OnValueChanged(ValueChangedEventArgs e)
    {
        if (ValueChanged != null)
            ValueChanged(this, e);
    }

    private void SampleUserControl_TextChanged(object sender, EventArgs e)
    {
        TextBox tb = (TextBox)sender;
        int value;
        if (!int.TryParse(tb.Text, out value))
            value = 0;
        // Raise the event
        OnValueChanged( new ValueChangedEventArgs(value));
    }
}
```

edited Dec 3 '11 at 20:17

answered Oct 24 '11 at 19:44



Enigma State

13.4k 19 73 152

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one of the easy way to do that is use landa function
without any problem like

0



```
userControl_Material11.simpleButton4.Click += (s, ee) =>
{
    Save_mat(mat_global);
};
```

answered Apr 6 '18 at 14:52



[ardalan](#)

1