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## How to allow only integers in a textbox? [duplicate]

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61



13

This question already has an answer here:

[asp.net validation to make sure textbox has integer values](#) 10  
answers

In my form I want to allow typing of integer values only in a textbox.  
How to do that?

[asp.net](#)

edited Apr 17 '13 at 12:41

[gabsferreira](#)

1,879 5 28 58

asked Mar 16 '12 at 5:36

[Jui Test](#)

1,009 10 31 61

**marked** as duplicate by [TylerH](#), [Nkosi](#), [AdrianHHH](#), [Machavity](#),  
[Paul Roub](#) Feb 13 '18 at 20:48

This question has been asked before and already has an answer. If those answers do not fully address your question, please [ask a new question](#).

[stackoverflow.com/questions/828309/textbox-allow-only-letters](https://stackoverflow.com/questions/828309/textbox-allow-only-letters) –

Uwe Keim Mar 16 '12 at 5:38

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## 19 Answers



100



You can use `RegularExpressionValidator` for this. below is the sample code:

```
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
<asp:RegularExpressionValidator ID="RegularExpressionValidator1"
    ControlToValidate="TextBox1" runat="server"
    ErrorMessage="Only Numbers allowed"
    ValidationExpression="\d+">
</asp:RegularExpressionValidator>
```

above `TextBox` only allowed integer to be entered because in `RegularExpressionValidator` has field called `ValidationExpression`, which validate the `TextBox`. However, you can modify as per your requirement.

You can see more example in MVC and JQuery [here](#).

edited Sep 15 '17 at 19:31



mikehc

520 5 15

answered Mar 16 '12 at 6:25



Ashwini Verma

6,525 4 27 55

- 3 Note that it still lets you type non-numbers. But if you do, a red validation message shows up and postback buttons do not submit. – [Curtis Yallop](#) Jun 24 '14 at 20:50

Note that when the validation message is hidden, it uses "visibility: hidden" rather than "display: none" on the validation message span which

causes an empty space to show up when the validation message is not displayed. – [Curtis Yallop](#) Jun 24 '14 at 20:50

@CurtisYallop this is true when Validator.display = "Static", to avoid it use Validator.display = "Dynamic" – [Hidalgo](#) Jul 8 '14 at 9:13

1 it's better way to solve this problem is use javascript , described in below answer, tanx to @madhu – [reza akhlaghi](#) Feb 10 '15 at 6:13

Can I also use the same method to only allow up to 5 numbers and not more? – [SearchForKnowledge](#) Apr 13 '15 at 17:50

64

```
<HTML>
<HEAD>
<SCRIPT language=Javascript>
    function isNumberKey(evt)
    {
        var charCode = (evt.which) ? evt.which : evt.keyCode;
        if (charCode > 31 && (charCode < 48 || charCode > 57))
            return false;
        return true;
    }
</SCRIPT>
</HEAD>
<BODY>
    <INPUT id="txtChar" onkeypress="return isNumberKey(event)" type="text"
name="txtChar">
</BODY>
</HTML>
```

please find the complete code @ [allow only numbers in textbox](#)

edited Apr 2 '18 at 1:53

answered Mar 16 '12 at 5:46



[Madhu Beela](#)

2,032 11 16

- 11 This is a much better solution than the accepted answer. Not allowing your user to input non-digits is much more convenient for the user than letting them and telling them they're wrong afterwards. Also, when the post-back situation gets a little complicated much easier to do the logic client side. – [Rudi Kershaw](#) Nov 24 '14 at 10:14

@RudiKershaw - Is it possible to enter only numbers & minus sign in a textbox? – [Learner](#) Jun 1 '15 at 10:49

Worked like a charm, thanks. @Learner just add `console.log(charCode);` to see the code of specific characters like this: `function isNumberKey(evt) { var charCode = (evt.which) ? evt.which : evt.keyCode; console.log(charCode); return (charCode > 31 && (charCode < 48 || charCode > 57) ? false : true); }` – [cjohansson](#) Aug 28 '17 at 12:26

This doesn't allow numbers to be entered from numpad – [Bat\\_Programmer](#) Jul 24 '18 at 2:39

Nice solution, just one thought. Isn't `(charCode > 31 && charCode < 48) || charCode > 57` more readable? – [obi](#) Sep 19 '18 at 20:56

An even easier method is to use the `TextMode` attribute:

3

```
<asp:TextBox runat="server" ID="txtTextBox" TextMode="Number">
```

answered Jan 18 '18 at 21:31



[A-Sharabiani](#)

6,387 9 55 85

this method does not exist. – [IbraHim M. Nada](#) Jul 11 '18 at 12:03

@IbraHimM.Nada [msdn.microsoft.com/en-us/library/...](https://msdn.microsoft.com/en-us/library/...) – [A-Sharabiani](#) Jul 11 '18 at 12:48

`TextMode` enum doesn't have `Number` – [Abou-Emish](#) Jan 3 at 14:38

I would use ASP.NET Ajax Filter TextBoxExtender control

0

<https://www.aspsnippets.com/Articles/ASPNet-AJAX-FilteredTextBoxExtender-Control-Example.aspx>

answered Dec 4 '17 at 12:47



user2983359

142 3 11

You can use client-side validation:

2

```
<asp:textbox onkeydown="return (!(event.keyCode>=65) && event.keyCod
```

edited Dec 22 '16 at 9:10



thomasb

3,464 2 49 79

answered Dec 22 '16 at 7:01



bbh

141 1 4

Another solution is to use a [RangeValidator](#) where you set Type="Integer" like this:

3

```
<asp:RangeValidator runat="server"
    id="valrNumberOfPreviousOwners"
    ControlToValidate="txtNumberOfPreviousOwners"
    Type="Integer"
    MinimumValue="0"
```

```

MaximumValue="999"
CssClass="input-error"
ErrorMessage="Please enter a positive integer."
Display="Dynamic">
</asp:RangeValidator>

```

You can set reasonable values for the `MinimumValue` and `MaximumValue` attributes too.

answered Jul 22 '16 at 7:39



Jenny O'Reilly

11.6k 7 42 55

▲ User below regular expression validator.

0

```

<asp:RegularExpressionValidator ID="RegularExpressionValidatorNui
runat="server" ControlToValidate="yourControl ID" ErrorMessage="Regi:
a Numeric" ValidationExpression="\d+$" ></asp:RegularExpressionVal:

```

answered May 4 '16 at 13:17



mzonorz

707 7 15

▲ You might find useful microsoft msdn article [How To: Use Regular Expressions to Constrain Input in ASP.NET](#). Take a look at "Common Regular Expressions" Table. It has validation example for

0

▼ **Non- negative integer**

`^\d+$`

This expression validates that the field contains an integer greater than zero.

answered Apr 5 '16 at 5:18



display\_name

4,139 1 26 50



1



```
function CheckNumeric(event) {
    var _key = (window.Event) ? event.which : event.keyCode;

    if ((_key > 95 && _key < 106) || (_key > 47 && _key < 58) || _key == 37 || _key == 39 || _key == 190 || _key == 110) {
        return true;
    }
    else {
        return false;
    }
}
```

```
<input type="text" onkeydown="return CheckNumerick(event);" />
```

Accept Keys: Numbers + NumPedNumbers + Tab + "," + "." + LeftButton + RightButton + Delete + BackSpace

answered Mar 9 '16 at 18:29



VolkanCetinkaya

240 3 9



### Easy Method:-

18

You can use the **onkeydown** Property of the TextBox for limiting its value to numbers only..

Very easy...:-)

```
<asp:TextBox ID="TextBox1" runat="server" onkeydown = "return (!(event.keyCode!=32));"></asp:TextBox>
```

!(keyCode>=65) check is for excluding the Alphabets..

keyCode!=32 check is for excluding the Space character inbetween the numbers..

edited May 28 '15 at 5:49

answered May 28 '15 at 5:44



EIV

309 2 8

Almost perfect :-) It also accepts all characters you can type with numeric keys at the top of main keyboard like "@" or "čšřł" etc. I did it like this:  
return (!((event.keyCode>=65 && event.keyCode <= 95) || event.keyCode >= 106 || (event.keyCode >= 48 && event.keyCode <= 57 && isNaN(event.key)))) && event.keyCode!=32); – [a.farkas2508](#) Feb 6 '18 at 11:16

Many thanks..... – [Prateek-Systematix](#) Nov 22 '18 at 6:57

You can use RegularExpressionValidator

2

```
<asp:TextBox ID="viewTextBox" runat="server" Text="0"></asp:TextBox>
<asp:RegularExpressionValidator ID="viewRegularExpressionValidator"
ValidationExpression="[0-9]{1,50}" ControlToValidate="viewTextBox"
Enter numbers only"></asp:RegularExpressionValidator>
```

answered Apr 4 '15 at 9:39





yogihosting

2,002 1 16 34

▲ Try This :

1

```
<input type="text" onkeypress = "return isDigit(event,this.value);",
```



```
function isDigit(evt, txt) {  
    var charCode = (evt.which) ? evt.which : event.keyCode  
  
    var c = String.fromCharCode(charCode);  
  
    if (txt.indexOf(c) > 0 && charCode == 46) {  
        return false;  
    }  
    else if (charCode != 46 && charCode > 31 && (charCode < 48 |  
        return false;  
    }  
  
    return true;  
}
```

Call this function from input textbox on onkeypress event

answered Apr 4 '15 at 9:08



Amit Maru

117 7

▲ Just use

2

```
<input type="number" id="foo" runat="server" />
```



It'll work on all modern browsers except IE +10. Here is a full list:

<http://caniuse.com/#feat=input-number>

edited Apr 4 '15 at 9:01

answered Apr 2 '15 at 14:14



[Ali Karaca](#)

917 14 25

---

Please add details about which browsers / html versions for which this will work. – [Edward](#) Apr 2 '15 at 20:26

---

try this instead

6

Note: This is using Ajax Toolkit

First add Ajax Script Manager and use the below Code to apply filter to the textbox

Provide the Namespace at the beginning of the asp.net page

```
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlTool"
TagPrefix="cc1" %>
```

```
<asp:TextBox ID="TxtBox" runat="server"></asp:TextBox>
<cc1:FilteredTextBoxExtender ID="FilteredTextBoxExtender1" runat="server"
TargetControlID="TxtBox" FilterType="Numbers" FilterMode="ValidChars"
/>
```

edited Jan 27 '15 at 6:42



[Nagaraj S](#)

10.5k 6 26 50

answered Nov 30 '12 at 5:18



Anusha Busetty

61 1 3



It can be done with a compare validator as below. Unlike the other answers, this also allows negative numbers to be entered, which is valid for integer values.



```
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
<asp:CompareValidator ControlToValidate="TextBox1" runat="server" ErrorMessage="only please" Operator="DataTypeCheck" Type="Integer" ></asp:CompareValidator>
```

answered Jun 5 '14 at 14:45



rdans

1,857 14 32



step by step



given you have a textbox as following,

```
<asp:TextBox ID="TextBox13" runat="server"
    onkeypress="return functionx(event)" >
</asp:TextBox>
```

you create a JavaScript function like this:

```
<script type = "text/javascript">
    function functionx(evt)
    {
        if (evt.charCode > 31 && (evt.charCode < 48 || evt.charCode > 57))
        {
            alert("Allow Only Numbers");
            return false;
        }
    }
</script>
```

```

    }
}
</script>

```

the first part of the if-statement excludes the ASCII control chars, the  
or statements excluded anything, that is not a number

edited Feb 26 '14 at 19:46



Vogel612

4,459 5 39 62

answered Feb 26 '14 at 19:22



mexrod

21 1

we can use javascript code

1

```

function validateAlphaNumericCode(event) {
    keyEntry = (event.which) ? event.which : event.keyCode

    if (((keyEntry >= '65') && (keyEntry <= '90')) || ((keyEntry >=
<= '122')) || (keyEntry == '37') || (keyEntry == '39') || (keyEntry :
(keyEntry == '8') || (keyEntry == '9') || (keyEntry == '95') || ((ke
(keyEntry <= '57'))))
        return true;
    else
        return false;
}

```

validate this code with your textbox.

edited Mar 16 '12 at 11:40



Matt S.

9,188 13 66 121

answered Mar 16 '12 at 9:08



aditi mittal

21 2



0



```
if (document.de.your_textbox_id.value != "")
{
    var checkOK = "0123456789";
    var checkStr = document.de.your_textbox_id.value;
    var allValid = true;
    for (i = 0; i < checkStr.length; i++)
    {
        ch = checkStr.charAt(i);
        for (j = 0; j < checkOK.length; j++)
        {
            if (ch == checkOK.charAt(j))
            {
                break;
            }
            if (j == checkOK.length)
            {
                allValid = false;
                break;
            }
        }
    }
    if (!allValid)
    {
        alert("Please enter only numeric characters in the text box.");
        document.de.your_textbox_id.focus();
    }
}
```

edited Mar 16 '12 at 11:40



Matt S.

9,188 13 66 121

answered Mar 16 '12 at 6:21



Prabhavith

329 3 14



Try this:

24

Note: This is using Ajax Toolkit



First add Ajax Script Manager and use the below Code

```
<asp:FilteredTextBoxExtender ID="TextBox1_FilteredTextBoxExtender" runat="server"
Enabled="True" TargetControlID="TextBox1" FilterType="Numbers">
</asp:FilteredTextBoxExtender>
```

answered Mar 16 '12 at 5:43



Vinod

3,127 3 14 25