

- Visual Basic Events
- Simple Statement



- An event is an action, such as the user clicking on a button
 - Usually, nothing happens in a Visual Basic program until the user does something and generates an event.
 - What happens is determined by statements.
 Visual Basic Events



• Assign a value to a property.

General Form:

source = value

 A value on the righthand side of = is assigned to the lefthand size of =.





- txtBox.ForeColor = Color.Red –
- txtBox.Visible = True
- txtBox.Text = "Hello World"

Color is a structure allowing us to specify various colors

General Form:

controlName.property = setting

Value represented by <u>setting</u> is stored into <u>controlName.property</u>



• Refers to the examples in the Lab







- When you click on a text box, a cursor appears in the text box, and you can type into the text box.
- Such a text box is said to have the **focus**.
- If you click on another text box, the first text box loses the focus and the second text box receives the focus.



The three steps in creating a Visual Basic program:

- 1. Create the interface; that is, generate, position, and size the objects.
- 2. Set properties; that is, configure the appearance of the objects.
- 3. Write the code that executes when events occur.



Page tab:

- 1. frmDemo.vb is a code window
- 2. frmDemo.vb [design] is a design window (to manipulate the window appearance)

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Chapter 3

Method

Name

box

>



(...) is filled automatically with (ByVal sender As System.Object, ByVal e As System.EventArgs)







- 1. Double-click on a control or
- 2. Use the Class Name and Method Name boxes.

(We primarily use the first method.)





Double Click on txtFirst



Public Class frmDemo Private Sub txtFirst_TextChanged(...) Handles txtFirst.TextChanged

End Sub

End Class

TextChanged event occurs when the user changes the text of a TextBox



Public Class frmDemo Private Sub txtFirst_TextChanged(...) Handles txtFirst.TextChanged txtFirst.ForeColor = Color.Blue End Sub End Class



Automatically pops up to give the programmer help.





Click tab to return to Form Designer







Double-click on btnRed



```
Public Class frmDemo
Private Sub txtFirst_TextChanged(...)
Handles txtFirst.TextChanged
txtFirst.ForeColor = Color.Blue
End Sub
```

Private Sub btnRed_Click(...)
 Handles btnRed.Click

End Sub End Class



```
Public Class frmDemo
 Private Sub txtFirst TextChanged(...)
                  Handles txtFirst.TextChanged
    txtFirst.ForeColor = Color.Blue
 End Sub
 Private Sub btnRed Click(...)
                          Handles btnRed.Click
   txtFirst.ForeColor = Color.Red
End Sub
End Class
```



Event Procedure txtFirst.Leave

- Select txtFirst from Class Name box drop-down list.
- Select Leave from Method Name box drop-down list.



Private Sub txtFirst_Leave(...) Handles txtFirst.Leave

End Sub

End Sub



```
Private Sub txtFirst_Leave(...) Handles txtFirst.Leave
    txtFirst.ForeColor = Color.Black
End Sub
```

```
Private Sub btnRed_Click(...) Handles btnRed.Click
  txtFirst.ForeColor = Color.Red
End Sub
```





Private Sub Button_Press(····) Handles btnRed.Click



Handling Multiple Events

Event procedure can be invoked by two events.

Private Sub Button_Click(...) Handles btnRed.Click, txtSecond.Leave txtFirst.ForeColor = Color.Red End Sub



The following won't work:
 frmDemo.Text = "Demonstration"

The form is referred to by the keyword *M*e.
 Me.Text = "Demonstration"