

## How to set PDF viewer selection options and use custompaint event in VB.NET with ByteScout PDF Viewer SDK

The tutorial below will demonstrate how to set PDF viewer selection options and use custompaint event in VB.NET

We made thousands of pre-made source code pieces for easy implementation in your own programming projects. ByteScout PDF Viewer SDK is the component that helps in adding pdf viewer into your desktop WinForms application. User may select multiple areas with mouse, can use keyboard shortcuts and zoom in or zoom out and change scaling. You may read coordinates, handle custom painting code and retrieve text inside selection area. It can be used to set PDF viewer selection options and use custompaint event using VB.NET.

You will save a lot of time on writing and testing code as you may just take the VB.NET code from ByteScout PDF Viewer SDK for set PDF viewer selection options and use custompaint event below and use it in your application. Follow the instructions from the scratch to work and copy the VB.NET code. Code testing will allow the function to be tested and work properly with your data.

Our website provides trial version of ByteScout PDF Viewer SDK for free. It also includes documentation and source code samples.

FOR MORE INFORMATION AND FREE TRIAL:

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Source Code Files:

```

Partial Class Form1
    ''' <summary>
    ''' Required designer variable.
    ''' </summary>
    Private components As System.ComponentModel.IContainer = Nothing

    ''' <summary>
    ''' Clean up any resources being used.
    ''' </summary>
    ''' <param name="disposing">true if managed resources should be disposed; otherwise, false;
    Protected Overrides Sub Dispose(disposing As Boolean)
        If disposing AndAlso (components IsNot Nothing) Then
            components.Dispose()
        End If
        MyBase.Dispose(disposing)
    End Sub

    #Region "Windows Form Designer generated code"

    ''' <summary>
    ''' Required method for Designer support - do not modify
    ''' the contents of this method with the code editor.
    ''' </summary>
    Private Sub InitializeComponent()
        Me.pdfViewerControl1 = New Bytescout.PDFViewer.PDFViewerControl()
        Me.toolStrip1 = New System.Windows.Forms.ToolStrip()
        Me.tsbOpen = New System.Windows.Forms.ToolStripButton()
        Me.cbLockSelection = New System.Windows.Forms.CheckBox()
        Me.cbAllowResizeSelection = New System.Windows.Forms.CheckBox()
        Me.cbMultiSelectMode = New System.Windows.Forms.CheckBox()
        Me.toolStrip1.SuspendLayout()
        Me.SuspendLayout()
        '
        'pdfViewerControl1
        '
        Me.pdfViewerControl1.AllowResizeSelectionRectangles = True
        Me.pdfViewerControl1.Anchor = CType((((System.Windows.Forms.AnchorStyles.Top Or
            System.Windows.Forms.AnchorStyles.Left) _
            Or System.Windows.Forms.AnchorStyles.Right), System.Windows.Forms.AnchorStyles)
        Me.pdfViewerControl1.BackColor = System.Drawing.SystemColors.ButtonShadow
        Me.pdfViewerControl1.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle
        Me.pdfViewerControl1.Location = New System.Drawing.Point(12, 97)
        Me.pdfViewerControl1.MouseMode = Bytescout.PDFViewer.MouseMode.Selection
        Me.pdfViewerControl1.MultiSelectMode = True
        Me.pdfViewerControl1.Name = "pdfViewerControl1"
        Me.pdfViewerControl1.RegistrationKey = Nothing
        Me.pdfViewerControl1.RegistrationName = Nothing
        Me.pdfViewerControl1.Size = New System.Drawing.Size(1153, 568)
        Me.pdfViewerControl1.TabIndex = 0
        '
        'toolStrip1
        '
        Me.toolStrip1.Items.AddRange(New System.Windows.Forms.ToolStripItem() {Me.tsbOpen})
    End Sub

```

```

Me.toolStrip1.Location = New System.Drawing.Point(0, 0)
Me.toolStrip1.Name = "toolStrip1"
Me.toolStrip1.Size = New System.Drawing.Size(1177, 25)
Me.toolStrip1.TabIndex = 1
Me.toolStrip1.Text = "toolStrip1"
'
'tsbOpen
'
Me.tsbOpen.ImageTransparentColor = System.Drawing.Color.Magenta
Me.tsbOpen.Name = "tsbOpen"
Me.tsbOpen.Size = New System.Drawing.Size(80, 22)
Me.tsbOpen.Text = "&Open PDF"
'
'cbLockSelection
'
Me.cbLockSelection.AutoSize = True
Me.cbLockSelection.Location = New System.Drawing.Point(12, 74)
Me.cbLockSelection.Name = "cbLockSelection"
Me.cbLockSelection.Size = New System.Drawing.Size(95, 17)
Me.cbLockSelection.TabIndex = 2
Me.cbLockSelection.Text = "Lock selection"
Me.cbLockSelection.UseVisualStyleBackColor = True
'
'cbAllowResizeSelection
'
Me.cbAllowResizeSelection.AutoSize = True
Me.cbAllowResizeSelection.Checked = True
Me.cbAllowResizeSelection.CheckState = System.Windows.Forms.CheckState.Checked
Me.cbAllowResizeSelection.Location = New System.Drawing.Point(12, 51)
Me.cbAllowResizeSelection.Name = "cbAllowResizeSelection"
Me.cbAllowResizeSelection.Size = New System.Drawing.Size(178, 17)
Me.cbAllowResizeSelection.TabIndex = 3
Me.cbAllowResizeSelection.Text = "Allow resize selection rectangles"
Me.cbAllowResizeSelection.UseVisualStyleBackColor = True
'
'cbMultiSelectMode
'
Me.cbMultiSelectMode.AutoSize = True
Me.cbMultiSelectMode.Checked = True
Me.cbMultiSelectMode.CheckState = System.Windows.Forms.CheckState.Checked
Me.cbMultiSelectMode.Location = New System.Drawing.Point(12, 28)
Me.cbMultiSelectMode.Name = "cbMultiSelectMode"
Me.cbMultiSelectMode.Size = New System.Drawing.Size(108, 17)
Me.cbMultiSelectMode.TabIndex = 4
Me.cbMultiSelectMode.Text = "Multi-select mode"
Me.cbMultiSelectMode.UseVisualStyleBackColor = True
'
'Form1
'
Me.AutoScaleDimensions = New System.Drawing.SizeF(6.0!, 13.0!)
Me.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font
Me.ClientSize = New System.Drawing.Size(1177, 677)
Me.Controls.Add(Me.cbMultiSelectMode)
Me.Controls.Add(Me.cbAllowResizeSelection)
Me.Controls.Add(Me.cbLockSelection)
Me.Controls.Add(Me.pdfViewerControl1)
Me.Controls.Add(Me.toolStrip1)
Me.Name = "Form1"
Me.Text = "Form1"
Me.toolStrip1.ResumeLayout(False)

```

```

Me.toolStrip1.PerformLayout()
Me.ResumeLayout(False)
Me.PerformLayout()

End Sub

#End Region

Private WithEvents pdfViewerControl1 As Bytescout.PDFViewer.PDFViewerControl
Private WithEvents toolStrip1 As System.Windows.Forms.ToolStrip
Private WithEvents tsbOpen As System.Windows.Forms.ToolStripButton
Private WithEvents cbLockSelection As System.Windows.Forms.CheckBox
Private WithEvents cbAllowResizeSelection As System.Windows.Forms.CheckBox
Private WithEvents cbMultiSelectMode As System.Windows.Forms.CheckBox
End Class

```

## Form1.vb

```

Imports System.Collections.Generic
Imports System.Drawing
Imports System.Windows.Forms
Imports Bytescout.PDFViewer

Public Partial Class Form1
    Inherits Form
    Public Sub New()
        InitializeComponent()
    End Sub

    Protected Overrides Sub OnLoad(e As EventArgs)
        pdfViewerControl1.InputFile = "sample.pdf"

        MyBase.OnLoad(e)
    End Sub

    Private Sub tsbOpen_Click(sender As Object, e As EventArgs) Handles tsbOpen.Click
        Using openFileDialog As New OpenFileDialog()
            openFileDialog.Title = "Open PDF Document"
            openFileDialog.Filter = "PDF Files (*.pdf)|*.pdf|All Files|*.*"

            If openFileDialog.ShowDialog() = DialogResult.OK Then
                Me.Text = openFileDialog.FileName

                Cursor = Cursors.WaitCursor

                Try
                    pdfViewerControl1.InputFile = openFileDialog.FileName
                Catch exception As Exception
                    MessageBox.Show(exception.Message)
                End Try
            End If
        End Using
    End Sub

```

```

        Finally
            Cursor = Cursors.[Default]
        End Try
    End If
End Using
End Sub

Private Sub cbMultiSelectMode_CheckedChanged(sender As Object, e As EventArgs) Hand
    pdfViewerControl1.MultiSelectMode = cbMultiSelectMode.Checked
End Sub

Private Sub cbAllowResizeSelection_CheckedChanged(sender As Object, e As EventArgs)
    pdfViewerControl1.AllowResizeSelectionRectangles = cbAllowResizeSelection.Checked
End Sub

Private Sub cbLockSelection_CheckedChanged(sender As Object, e As EventArgs) Handle
    pdfViewerControl1.LockSelection = cbLockSelection.Checked
End Sub

    Private _labels As List(Of [String]) = New List(Of String)()

Private Sub pdfViewerControl1_SelectionChanged(ByVal sender As Object, ByVal select
    If pdfViewerControl1.Selection.Length > _labels.Count Then
        For i As Integer = _labels.Count To pdfViewerControl1.Selection.Length - 1
            _labels.Add(New Random().[Next]() .ToString())
        Next
    End If
End Sub

Private Sub pdfViewerControl1_CustomPaint(sender As Object, e As PaintEventArgs) Ho
    ' Paint labels
    For i As Integer = 0 To pdfViewerControl1.Selection.Length - 1
        Dim r As Rectangle = Rectangle.Round(pdfViewerControl1.Selection(i))
        r = pdfViewerControl1.TranslateRectangleToViewport(r)

        Dim textSize As Size = TextRenderer.MeasureText(_labels(i), Font)
        Dim textRectangle As New Rectangle(r.Left, r.Top - textSize.Height - 6, tex

        e.Graphics.FillRectangle(Brushes.DarkBlue, textRectangle)
        TextRenderer.DrawText(e.Graphics, _labels(i), Font, textRectangle, Color.Wh
    Next
End Sub
End Class

```

Program.vb

```

Imports System.Collections.Generic
Imports System.Windows.Forms

NotInheritable Class Program

```

```
Private Sub New()  
End Sub  
''' <summary>  
''' The main entry point for the application.  
''' </summary>  
<STAThread> _  
Private Shared Sub Main()  
    Application.EnableVisualStyles()  
    Application.SetCompatibleTextRenderingDefault(False)  
    Application.Run(New Form1())  
End Sub  
End Class
```

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## VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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