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How to change PDF selection options and use custompaint with PDF viewer SDK in C# with ByteScout Premium Suite

How to write a robust code in C# to change PDF selection options and use custompaint with PDF viewer SDK with this step-by-step tutorial

The code displayed below will guide you to install an C# app to change PDF selection options and use custompaint with PDF viewer SDK. ByteScout Premium Suite can change PDF selection options and use custompaint with PDF viewer SDK. It can be applied from C#. ByteScout Premium Suite is the bundle that includes twelve SDK products from ByteScout including tools and components for PDF, barcodes, spreadsheets, screen video recording.

Want to save time? You will save a lot of time on writing and testing code as you may just take the C# code from ByteScout Premium Suite for change PDF selection options and use custompaint with PDF viewer SDK below and use it in your application. Follow the instructions from scratch to work and copy the C# code. Further improvement of the code will make it more robust.

Our website gives trial version of ByteScout Premium Suite for free. It also includes documentation and source code samples.

FOR MORE INFORMATION AND FREE TRIAL:

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Source Code Files:

```

using Bytescout.PDFViewer;

namespace Example
{
    partial class Form1
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed.
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #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 void InitializeComponent()
        {
            this.pdfViewerControl1 = new Bytescout.PDFViewer.PDFViewerCont
            this.toolStrip1 = new System.Windows.Forms.ToolStrip();
            this.tsbOpen = new System.Windows.Forms.ToolStripButton();
            this.cbLockSelection = new System.Windows.Forms.CheckBox();
            this.cbAllowResizeSelection = new System.Windows.Forms.CheckBox();
            this.cbMultiSelectMode = new System.Windows.Forms.CheckBox();
            this.toolStrip1.SuspendLayout();
            this.SuspendLayout();
            // 
            // pdfViewerControl1
            // 
            this.pdfViewerControl1.AllowResizeSelectionRectangles = true;
            this.pdfViewerControl1.Anchor = ((System.Windows.Forms.AnchorStyles
            | System.Windows.Forms.AnchorStyles.Left)
            | System.Windows.Forms.AnchorStyles.Right));
            this.pdfViewerControl1.BackColor = System.Drawing.SystemColors
            this.pdfViewerControl1.BorderStyle = System.Windows.Forms.BorderSt
            this.pdfViewerControl1.Location = new System.Drawing.Point(12,
            this.pdfViewerControl1.MouseMode = Bytescout.PDFViewer.MouseMod
            this.pdfViewerControl1.MultiSelectMode = true;
            this.pdfViewerControl1.Name = "pdfViewerControl1";
            this.pdfViewerControl1.RegistrationKey = null;
            this.pdfViewerControl1.RegistrationName = null;
        }
    }
}

```

```
this.pdfViewerControl1.Size = new System.Drawing.Size(1153, 568);
this.pdfViewerControl1.TabIndex = 0;
this.pdfViewerControl1.SelectionChanged += new SelectionChangedEventHandler(this.pdfViewerControl1_SelectionChanged);
this.pdfViewerControl1.CustomPaint += new System.Windows.Forms.PaintEventHandler(this.pdfViewerControl1_CustomPaint);
//
// toolStrip1
//
this.toolStrip1.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
    this.tsbOpen});
this.toolStrip1.Location = new System.Drawing.Point(0, 0);
this.toolStrip1.Name = "toolStrip1";
this.toolStrip1.Size = new System.Drawing.Size(1177, 25);
this.toolStrip1.TabIndex = 1;
this.toolStrip1.Text = "toolStrip1";
//
// tsbOpen
//
this.tsbOpen.Image = global::Example.Properties.Resources.folder;
this.tsbOpen.ImageTransparentColor = System.Drawing.Color.Magenta;
this.tsbOpen.Name = "tsbOpen";
this.tsbOpen.Size = new System.Drawing.Size(80, 22);
this.tsbOpen.Text = "&Open PDF";
this.tsbOpen.Click += new System.EventHandler(this.tsbOpen_Click);
//
// cbLockSelection
//
this.cbLockSelection.AutoSize = true;
this.cbLockSelection.Location = new System.Drawing.Point(12, 74);
this.cbLockSelection.Name = "cbLockSelection";
this.cbLockSelection.Size = new System.Drawing.Size(95, 17);
this.cbLockSelection.TabIndex = 2;
this.cbLockSelection.Text = "Lock selection";
this.cbLockSelection.UseVisualStyleBackColor = true;
this.cbLockSelection.CheckedChanged += new System.EventHandler(this.cbLockSelection_CheckedChanged);
//
// cbAllowResizeSelection
//
this.cbAllowResizeSelection.AutoSize = true;
this.cbAllowResizeSelection.Checked = true;
this.cbAllowResizeSelection.CheckState = System.Windows.Forms.CheckState.Checked;
this.cbAllowResizeSelection.Location = new System.Drawing.Point(12, 101);
this.cbAllowResizeSelection.Name = "cbAllowResizeSelection";
this.cbAllowResizeSelection.Size = new System.Drawing.Size(178, 17);
this.cbAllowResizeSelection.TabIndex = 3;
this.cbAllowResizeSelection.Text = "Allow resize selection rectangle";
this.cbAllowResizeSelection.UseVisualStyleBackColor = true;
this.cbAllowResizeSelection.CheckedChanged += new System.EventHandler(this.cbAllowResizeSelection_CheckedChanged);
//
// cbMultiSelectMode
//
this.cbMultiSelectMode.AutoSize = true;
this.cbMultiSelectMode.Checked = true;
this.cbMultiSelectMode.CheckState = System.Windows.Forms.CheckState.Checked;
this.cbMultiSelectMode.Location = new System.Drawing.Point(12, 128);
this.cbMultiSelectMode.Name = "cbMultiSelectMode";
this.cbMultiSelectMode.Size = new System.Drawing.Size(108, 17);
this.cbMultiSelectMode.TabIndex = 4;
this.cbMultiSelectMode.Text = "Multi-select mode";
this.cbMultiSelectMode.UseVisualStyleBackColor = true;
this.cbMultiSelectMode.CheckedChanged += new System.EventHandler(this.cbMultiSelectMode_CheckedChanged);
```

```

        //
        // Form1
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(1177, 677);
        this.Controls.Add(this.cbMultiSelectMode);
        this.Controls.Add(this.cbAllowResizeSelection);
        this.Controls.Add(this.cbLockSelection);
        this.Controls.Add(this.pdfViewerControl1);
        this.Controls.Add(this.toolStrip1);
        this.Name = "Form1";
        this.Text = "Form1";
        this.toolStrip1.ResumeLayout(false);
        this.toolStrip1.PerformLayout();
        this.ResumeLayout(false);
        this.PerformLayout();

    }

}

#endregion

private Bytescout.PDFViewer.PDFViewerControl pdfViewerControl1;
private System.Windows.Forms.ToolStrip toolStrip1;
private System.Windows.Forms.ToolStripButton tsbOpen;
private System.Windows.Forms.CheckBox cbLockSelection;
private System.Windows.Forms.CheckBox cbAllowResizeSelection;
private System.Windows.Forms.CheckBox cbMultiSelectMode;
}

```

Form1.cs

```

using System;
using System.Collections.Generic;
using System.Drawing;
using System.Windows.Forms;
using Bytescout.PDFViewer;

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

        protected override void OnLoad(EventArgs e)

```

```

    {
        pdfViewerControl1.InputFile = "sample.pdf";

        base.OnLoad(e);
    }

private void tsbOpen_Click(object sender, EventArgs e)
{
    using (OpenFileDialog openFileDialog = new OpenFileDialog())
    {
        openFileDialog.Title = @"Open PDF Document";
        openFileDialog.Filter = @"PDF Files (*.pdf)|*.pdf|All Files (*.*)|*.*";
        if (openFileDialog.ShowDialog() == DialogResult.OK)
        {
            this.Text = openFileDialog.FileName;

            Cursor = Cursors.WaitCursor;

            try
            {
                pdfViewerControl1.InputFile = openFileDialog.FileName;
            }
            catch (Exception exception)
            {
                MessageBox.Show(exception.Message);
            }
            finally
            {
                Cursor = Cursors.Default;
            }
        }
    }
}

private void cbMultiSelectMode_CheckedChanged(object sender, EventArgs e)
{
    pdfViewerControl1.MultiSelectMode = cbMultiSelectMode.Checked;
}

private void cbAllowResizeSelection_CheckedChanged(object sender, EventArgs e)
{
    pdfViewerControl1.AllowResizeSelectionRectangles = cbAllowResizeSelection.Checked;
}

private void cbLockSelection_CheckedChanged(object sender, EventArgs e)
{
    pdfViewerControl1.LockSelection = cbLockSelection.Checked;
}

List<String> _labels = new List<string>();

private void pdfViewerControl1_SelectionChanged(object sender, SelectionChangedEventArgs e)
{
    if (pdfViewerControl1.Selection.Length > _labels.Count)
    {
        for (int i = _labels.Count; i < pdfViewerControl1.Selection.Length; i++)
        {
            _labels.Add(new Random().Next().ToString());
        }
    }
}

```

```
        }

    private void pdfViewerControl1_CustomPaint(object sender, PaintEventArgs e)
    {
        // Paint labels
        for (int i = 0; i < pdfViewerControl1.Selection.Length; i++)
        {
            Rectangle r = Rectangle.Round(pdfViewerControl1.Selection[i]);
            r = pdfViewerControl1.TranslateRectangleToViewport(r);

            Size textSize = TextRenderer.MeasureText(_labels[i], Font);
            Rectangle textRectangle = new Rectangle(r.Left, r.Top + 10, textSize.Width, textSize.Height);

            e.Graphics.FillRectangle(Brushes.DarkBlue, textRectangle);
            TextRenderer.DrawText(e.Graphics, _labels[i], Font, textRectangle);
        }
    }
}
```

Program.cs

```
using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace Example
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
}
```

VIDEO

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

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