

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

If you want to learn more then this tutorial will show how to change PDF selection options and use custompaint with PDF viewer SDK in C#

The sample source code below will teach you how to change PDF selection options and use custompaint with PDF viewer SDK in C#. What is ByteScout PDF Suite? It is the set that includes 6 SDK products to work with PDF from generating rich PDF reports to extracting data from PDF documents and converting them to HTML. This bundle includes PDF (Generator) SDK, PDF Renderer SDK, PDF Extractor SDK, PDF to HTML SDK, PDF Viewer SDK and PDF Generator SDK for Javascript. It can help you to change PDF selection options and use custompaint with PDF viewer SDK in your C# application.

These C# code samples for C# guide developers to speed up coding of the application when using ByteScout PDF Suite. This C# sample code is all you need for your app. Just copy and paste the code, add references (if needs to) and you are all set! Applying C# application mostly includes various stages of the software development so even if the functionality works please test it with your data and the production environment.

You can download free trial version of ByteScout PDF Suite from our website to see and try many others source code samples for C#.

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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; otherwise, false;
        /// </param>
        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.PDFViewerControl();
            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.Window;
            this.pdfViewerControl1.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
            this.pdfViewerControl1.Location = new System.Drawing.Point(12, 12, 1000, 1000);
            this.pdfViewerControl1.MouseMode = Bytescout.PDFViewer.MouseMode.Default;
            this.pdfViewerControl1.MultiSelectMode = true;
            this.pdfViewerControl1.Name = "pdfViewerControl1";
        }

        #endregion
    }
}

```

```

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, 100);
this.cbAllowResizeSelection.Name = "cbAllowResizeSelection";
this.cbAllowResizeSelection.Size = new System.Drawing.Size(178, 17);
this.cbAllowResizeSelection.TabIndex = 3;
this.cbAllowResizeSelection.Text = "Allow resize selection rectangles";
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, 126);
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(
            //
            // 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

        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(pdfViewerControl1.Selection[i].Text);
        }
    }
}

```

```

        _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 + textSize.Height, r.Right, r.Top + textSize.Height);

        e.Graphics.FillRectangle(Brushes.DarkBlue, textRectangle);
        TextRenderer.DrawText(e.Graphics, _labels[i], Font, textRectangle.X, textRectangle.Y, textSize.Width);
    }
}
}
}
}

```

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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