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How to get selection points with PDF viewer UI application with PDF viewer SDK in C# and ByteScout PDF Suite

Learn to code in C# to get selection points with PDF viewer UI application with PDF viewer SDK with this step-by-step tutorial

ByteScout simple and easy to understand tutorials are planned to describe the code for both C# beginners and advanced programmers. ByteScout PDF Suite is the bundle that provides six different SDK libraries 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 be applied to get selection points with PDF viewer UI application with PDF viewer SDK using C#.

The following code snippet for ByteScout PDF Suite works best when you need to quickly get selection points with PDF viewer UI application with PDF viewer SDK in your C# application. 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! Enjoy writing a code with ready-to-use sample C# codes.

Trial version of ByteScout PDF Suite is available for free. Source code samples are included to help you with your C# app.

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Source Code Files:

Form1.Designer.cs

```
namespace Sample_UI_Application
{
    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.PDFViewerControl();
            this.toolStrip1 = new System.Windows.Forms.ToolStrip();
            this.tsbOpen = new System.Windows.Forms.ToolStripButton();
            this.btnGetSelectionPoints = new System.Windows.Forms.Button();
            this.label1 = new System.Windows.Forms.Label();
            this.label2 = new System.Windows.Forms.Label();
            this.txtSelectionPDFUnit = new System.Windows.Forms.TextBox();
            this.txtSelectionPixel = new System.Windows.Forms.TextBox();
            this.toolStrip1.SuspendLayout();
            this.toolStrip1.SuspendLayout();
            // 
            // pdfViewerControl1
            // 
            this.pdfViewerControl1.Anchor = (((System.Windows.Forms.AnchorStyles)((System.Windows.Forms.AnchorStyles.Left | System.Windows.Forms.AnchorStyles.Right)));
            this.pdfViewerControl1.BackColor = System.Drawing.SystemColors.ButtonShadow;
            this.pdfViewerControl1.Location = new System.Drawing.Point(-13, 127);
            this.pdfViewerControl1.Margin = new System.Windows.Forms.Padding(4);
            this.pdfViewerControl1.MouseMode = Bytescout.PDFViewer.MouseMode.Selection;
            this.pdfViewerControl1.Name = "pdfViewerControl1";
            this.pdfViewerControl1.RegistrationKey = null;
            this.pdfViewerControl1.RegistrationName = null;
        }

        #endregion
    }
}
```

```
this.pdfViewerControl1.ResetRotationOnPageChange = false;
this.pdfViewerControl1.Scale = 100;
this.pdfViewerControl1.SelectionColor = System.Drawing.Color.Red;
this.pdfViewerControl1.ShowImageObjects = true;
this.pdfViewerControl1.ShowTextObjects = true;
this.pdfViewerControl1.ShowVectorObjects = true;
this.pdfViewerControl1.Size = new System.Drawing.Size(1240, 605);
this.pdfViewerControl1.TabIndex = 0;
//
// toolStrip1
//
this.toolStrip1.ImageScalingSize = new System.Drawing.Size(20, 20);
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(1240, 27);
this.toolStrip1.TabIndex = 1;
this.toolStrip1.Text = "toolStrip1";
//
// tsbOpen
//
this.tsbOpen.Image = global::Sample_UI_Application.Properties.Resources.folder;
this.tsbOpen.ImageTransparentColor = System.Drawing.Color.Magenta;
this.tsbOpen.Name = "tsbOpen";
this.tsbOpen.Size = new System.Drawing.Size(99, 24);
this.tsbOpen.Text = "&Open PDF";
this.tsbOpen.Click += new System.EventHandler(this.tsbOpen_Click);
//
// btnGetSelectionPoints
//
this.btnGetSelectionPoints.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F, ((System.Drawing.FontStyle)((System.Drawing.FontStyle.Bold | System.Drawing.FontStyle.Underline)));
this.btnGetSelectionPoints.Location = new System.Drawing.Point(5, 41);
this.btnGetSelectionPoints.Name = "btnGetSelectionPoints";
this.btnGetSelectionPoints.Size = new System.Drawing.Size(172, 69);
this.btnGetSelectionPoints.TabIndex = 2;
this.btnGetSelectionPoints.Text = "Get Selection Points";
this.btnGetSelectionPoints.UseVisualStyleBackColor = true;
this.btnGetSelectionPoints.Click += new System.EventHandler(this.btnGetSelectionPoints_Click);
//
// label1
//
this.label1.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F, ((System.Drawing.FontStyle)((System.Drawing.FontStyle.Bold | System.Drawing.FontStyle.Underline)));
this.label1.Location = new System.Drawing.Point(183, 41);
this.label1.Name = "label1";
this.label1.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
this.label1.Size = new System.Drawing.Size(277, 25);
this.label1.TabIndex = 3;
this.label1.Text = "Selection in PDF Units";
//
// label2
//
this.label2.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F, ((System.Drawing.FontStyle)((System.Drawing.FontStyle.Bold | System.Drawing.FontStyle.Underline)));
this.label2.Location = new System.Drawing.Point(183, 85);
this.label2.Name = "label2";
this.label2.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
this.label2.Size = new System.Drawing.Size(277, 25);
this.label2.TabIndex = 4;
this.label2.Text = "Selection in Pixels";
//
```

```
// txtSelectionPDFUnit
//
>this.txtSelectionPDFUnit.Font = new System.Drawing.Font("Microsoft Sans Seri...
>this.txtSelectionPDFUnit.Location = new System.Drawing.Point(466, 41);
>this.txtSelectionPDFUnit.Multiline = true;
>this.txtSelectionPDFUnit.Name = "txtSelectionPDFUnit";
>this.txtSelectionPDFUnit.ReadOnly = true;
>this.txtSelectionPDFUnit.Size = new System.Drawing.Size(761, 25);
>this.txtSelectionPDFUnit.TabIndex = 5;
//
// txtSelectionPixel
//
>this.txtSelectionPixel.Font = new System.Drawing.Font("Microsoft Sans Seri...
>this.txtSelectionPixel.Location = new System.Drawing.Point(466, 85);
>this.txtSelectionPixel.Multiline = true;
>this.txtSelectionPixel.Name = "txtSelectionPixel";
>this.txtSelectionPixel.ReadOnly = true;
>this.txtSelectionPixel.Size = new System.Drawing.Size(761, 25);
>this.txtSelectionPixel.TabIndex = 6;
//
// Form1
//
>this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 16F);
>this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
>this.ClientSize = new System.Drawing.Size(1240, 663);
>this.Controls.Add(this.txtSelectionPixel);
>this.Controls.Add(this.txtSelectionPDFUnit);
>this.Controls.Add(this.label2);
>this.Controls.Add(this.label1);
>this.Controls.Add(this.btnGetSelectionPoints);
>this.Controls.Add(this.pdfViewerControl1);
>this.Controls.Add(this.toolStrip1);
>this.Margin = new System.Windows.Forms.Padding(4);
>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.Button btnGetSelectionPoints;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.TextBox txtSelectionPDFUnit;
private System.Windows.Forms.TextBox txtSelectionPixel;
}
}
```

Form1.cs

```
using System;
using System.Drawing;
using System.Windows.Forms;

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

            // Assign default document
            pdfViewerControl1.InputFile = "sample.pdf";

            // Initially set selection
            pdfViewerControl1.Selection = new Rectangle[] { new Rectangle(20, 20, 100, 50) };

            // Get Selection Information
            GetSelectionInformation();
        }

        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 btnGetSelectionPoints_Click(object sender, EventArgs e)
{
    GetSelectionInformation();
}

private void GetSelectionInformation()
{
    if (pdfViewerControl1.SelectionInPoints.Length > 0)
    {

        // If need to get selection in PDF format then use .SelectionInPoints
        // PDF points can be used with other SDK to extract text, draw on pdf,
        // These PDF points coordinates are staying the same with any rendering
        RectangleF selectionInPoints = pdfViewerControl1.SelectionInPoints[0];
        txtSelectionPDFUnit.Text = string.Format("Top={0}, Left={1}, Bottom={2}",
            selectionInPoints.Top,
            selectionInPoints.Left,
            selectionInPoints.Bottom,
            selectionInPoints.Right,
            selectionInPoints.Width,
            selectionInPoints.Height);

        // If you need to draw on screen on the control then please use .Selection
        RectangleF selectionInPixels = pdfViewerControl1.Selection[0];
        txtSelectionPixel.Text = string.Format("Top={0}, Left={1}, Bottom={2}",
            selectionInPixels.Top.ToString(),
            selectionInPixels.Left.ToString(),
            selectionInPixels.Bottom.ToString(),
            selectionInPixels.Right.ToString(),
            selectionInPixels.Width,
            selectionInPixels.Height);
    }
    else
    {
        MessageBox.Show("Selection not available.");
    }
}

}

```

Program.cs

```

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

namespace Sample_UI_Application

```

```
{  
    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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