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

Learning is essential in computer world and the tutorial below will demonstrate how to get selection points with PDF viewer UI application with PDF viewer SDK in C#

Get selection points with PDF viewer UI application with PDF viewer SDK is simple to apply in C# if you use these source codes below. ByteScout Premium Suite can get selection points with PDF viewer UI application with PDF viewer SDK. It can be applied from C#. ByteScout Premium Suite is the set that includes 12 SDK products from ByteScout including tools and components for PDF, barcodes, spreadsheets, screen video recording.

This prolific sample source code in C# for ByteScout Premium Suite contains various functions and other necessary options you should do calling the API to get selection points with PDF viewer UI application with PDF viewer SDK. 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! Check C# sample code samples to see if they respond to your needs and requirements for the project.

If you want to try other source code samples then the free trial version of ByteScout Premium Suite is available for download from our website. Just try other source code samples for C#.

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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 dispose
                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.SuspendLayout();
            //
            // pdfViewerControl1
            //
            this.pdfViewerControl1.Anchor = ((System.Windows.Forms.AnchorStyles)((((Sys
            | 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;
```

```
            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.fo
            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
            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.btnGetSele
            //
            // label1
            //
            this.label1.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F, ((
            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, ((
            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 Se
            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,

            // 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 renderin
                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 .Selec
                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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