

How to add text and image overlays to screen recording in C# with ByteScout Screen Capturing SDK

The tutorial shows how to add text and image overlays to screen recording in C#

With this source code sample you may quickly learn how to add text and image overlays to screen recording in C#. ByteScout Screen Capturing SDK can add text and image overlays to screen recording. It can be used from C#. ByteScout Screen Capturing SDK is the screen video recording SDK helps in quick implementation of screen video recording. WMV, AVI, WebM output options are available with adjustable quality, video size, framerate and video and audio codec. Includes special features like live multiple blacking out of selected areas, recording from web cam as main source and as overlay, optional watermarks for output video.

Fast application programming interfaces of ByteScout Screen Capturing SDK for C# plus the instruction and the code below will help you quickly learn how to add text and image overlays to screen recording. In order to implement the functionality, you should copy and paste this code for C# below into your code editor with your app, compile and run your application. Use of ByteScout Screen Capturing SDK in C# is also explained in the documentation included along with the product.

ByteScout free trial version is available for download from our website. It includes all these programming tutorials along with source code samples.

FOR MORE INFORMATION AND FREE TRIAL:

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Source Code Files:

Form1.Designer.cs

```
namespace ScreenCapturingClient
{
    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.pnlPreview = new System.Windows.Forms.Panel();
            this.cmbWebCam = new System.Windows.Forms.ComboBox();
            this.grpProperties = new System.Windows.Forms.GroupBox();
            this.label2 = new System.Windows.Forms.Label();
            this.cmbAudioDevices = new System.Windows.Forms.ComboBox();
            this.label1 = new System.Windows.Forms.Label();
            this.chkEnableAudio = new System.Windows.Forms.CheckBox();
            this.txtLogFile = new System.Windows.Forms.TextBox();
            this.label3 = new System.Windows.Forms.Label();
            this.label4 = new System.Windows.Forms.Label();
            this.cmbVideoCodec = new System.Windows.Forms.ComboBox();
            this.label5 = new System.Windows.Forms.Label();
            this.cmbAudioCodecs = new System.Windows.Forms.ComboBox();
            this.nmCaptureWidth = new System.Windows.Forms.NumericUpDown();
            this.label6 = new System.Windows.Forms.Label();
            this.label7 = new System.Windows.Forms.Label();
            this.nmCaptureHeight = new System.Windows.Forms.NumericUpDown();
            this.label8 = new System.Windows.Forms.Label();
            this.nmOutputHeight = new System.Windows.Forms.NumericUpDown();
            this.label9 = new System.Windows.Forms.Label();
            this.nmOutputWidth = new System.Windows.Forms.NumericUpDown();
            this.label10 = new System.Windows.Forms.Label();
            this.grpProperties.SuspendLayout();
            ((System.ComponentModel.ISupportInitialize)(this.nmCaptureWidth)).BeginInit();
            ((System.ComponentModel.ISupportInitialize)(this.nmCaptureHeight)).BeginInit();
            ((System.ComponentModel.ISupportInitialize)(this.nmOutputWidth)).BeginInit();
            ((System.ComponentModel.ISupportInitialize)(this.nmOutputHeight)).BeginInit();
            this.SuspendLayout();

            // 
            // pnlPreview
            // 
            this.pnlPreview.Location = new System.Drawing.Point(12, 12);
            this.pnlPreview.Name = "pnlPreview";
            this.pnlPreview.Size = new System.Drawing.Size(450, 350);
            this.pnlPreview.TabIndex = 0;

            // 
            // cmbWebCam
            // 
            this.cmbWebCam.FormattingEnabled = true;
            this.cmbWebCam.Location = new System.Drawing.Point(12, 368);
            this.cmbWebCam.Name = "cmbWebCam";
            this.cmbWebCam.Size = new System.Drawing.Size(200, 21);
            this.cmbWebCam.TabIndex = 1;

            // 
            // grpProperties
            // 
            this.grpProperties.Controls.Add(this.label2);
            this.grpProperties.Controls.Add(this.cmbAudioDevices);
            this.grpProperties.Controls.Add(this.label1);
            this.grpProperties.Controls.Add(this.chkEnableAudio);
            this.grpProperties.Controls.Add(this.txtLogFile);
            this.grpProperties.Controls.Add(this.label3);
            this.grpProperties.Controls.Add(this.label4);
            this.grpProperties.Controls.Add(this.cmbVideoCodec);
            this.grpProperties.Controls.Add(this.label5);
            this.grpProperties.Controls.Add(this.cmbAudioCodecs);
            this.grpProperties.Controls.Add(this.nmCaptureWidth);
            this.grpProperties.Controls.Add(this.label6);
            this.grpProperties.Controls.Add(this.label7);
            this.grpProperties.Controls.Add(this.nmCaptureHeight);
            this.grpProperties.Controls.Add(this.label8);
            this.grpProperties.Controls.Add(this.nmOutputHeight);
            this.grpProperties.Controls.Add(this.label9);
            this.grpProperties.Controls.Add(this.nmOutputWidth);
            this.grpProperties.Controls.Add(this.label10);
            this.grpProperties.Location = new System.Drawing.Point(12, 368);
            this.grpProperties.Name = "grpProperties";
            this.grpProperties.Size = new System.Drawing.Size(450, 250);
            this.grpProperties.TabIndex = 2;
            this.grpProperties.TabStop = false;
            this.grpProperties.Text = "Properties";

            // 
            // label2
            // 
            this.label2.AutoSize = true;
            this.label2.Location = new System.Drawing.Point(12, 395);
            this.label2.Name = "label2";
            this.label2.Size = new System.Drawing.Size(150, 13);
            this.label2.TabIndex = 3;
            this.label2.Text = "Select the video source (Webcam) you want to capture from.";

            // 
            // cmbAudioDevices
            // 
            this.cmbAudioDevices.FormattingEnabled = true;
            this.cmbAudioDevices.Location = new System.Drawing.Point(12, 415);
            this.cmbAudioDevices.Name = "cmbAudioDevices";
            this.cmbAudioDevices.Size = new System.Drawing.Size(200, 21);
            this.cmbAudioDevices.TabIndex = 4;

            // 
            // label1
            // 
            this.label1.AutoSize = true;
            this.label1.Location = new System.Drawing.Point(12, 435);
            this.label1.Name = "label1";
            this.label1.Size = new System.Drawing.Size(150, 13);
            this.label1.TabIndex = 5;
            this.label1.Text = "Select the audio device you want to capture from.";

            // 
            // chkEnableAudio
            // 
            this.chkEnableAudio.AutoSize = true;
            this.chkEnableAudio.Location = new System.Drawing.Point(12, 455);
            this.chkEnableAudio.Name = "chkEnableAudio";
            this.chkEnableAudio.Size = new System.Drawing.Size(150, 17);
            this.chkEnableAudio.TabIndex = 6;
            this.chkEnableAudio.Text = "Enable audio capture";
            this.chkEnableAudio.UseVisualStyleBackColor = true;

            // 
            // txtLogFile
            // 
            this.txtLogFile.Location = new System.Drawing.Point(12, 475);
            this.txtLogFile.Name = "txtLogFile";
            this.txtLogFile.Size = new System.Drawing.Size(200, 20);
            this.txtLogFile.TabIndex = 7;

            // 
            // label3
            // 
            this.label3.AutoSize = true;
            this.label3.Location = new System.Drawing.Point(12, 495);
            this.label3.Name = "label3";
            this.label3.Size = new System.Drawing.Size(150, 13);
            this.label3.TabIndex = 8;
            this.label3.Text = "Enter the path where you want to save the captured files (optional).";

            // 
            // label4
            // 
            this.label4.AutoSize = true;
            this.label4.Location = new System.Drawing.Point(12, 515);
            this.label4.Name = "label4";
            this.label4.Size = new System.Drawing.Size(150, 13);
            this.label4.TabIndex = 9;
            this.label4.Text = "Select the video codec you want to use for encoding (optional).";

            // 
            // cmbVideoCodec
            // 
            this.cmbVideoCodec.FormattingEnabled = true;
            this.cmbVideoCodec.Location = new System.Drawing.Point(12, 535);
            this.cmbVideoCodec.Name = "cmbVideoCodec";
            this.cmbVideoCodec.Size = new System.Drawing.Size(200, 21);
            this.cmbVideoCodec.TabIndex = 10;

            // 
            // label5
            // 
            this.label5.AutoSize = true;
            this.label5.Location = new System.Drawing.Point(12, 555);
            this.label5.Name = "label5";
            this.label5.Size = new System.Drawing.Size(150, 13);
            this.label5.TabIndex = 11;
            this.label5.Text = "Select the audio codec you want to use for encoding (optional).";

            // 
            // cmbAudioCodecs
            // 
            this.cmbAudioCodecs.FormattingEnabled = true;
            this.cmbAudioCodecs.Location = new System.Drawing.Point(12, 575);
            this.cmbAudioCodecs.Name = "cmbAudioCodecs";
            this.cmbAudioCodecs.Size = new System.Drawing.Size(200, 21);
            this.cmbAudioCodecs.TabIndex = 12;

            // 
            // nmCaptureWidth
            // 
            this.nmCaptureWidth.Location = new System.Drawing.Point(12, 595);
            this.nmCaptureWidth.Name = "nmCaptureWidth";
            this.nmCaptureWidth.Size = new System.Drawing.Size(100, 20);
            this.nmCaptureWidth.TabIndex = 13;

            // 
            // label6
            // 
            this.label6.AutoSize = true;
            this.label6.Location = new System.Drawing.Point(12, 615);
            this.label6.Name = "label6";
            this.label6.Size = new System.Drawing.Size(150, 13);
            this.label6.TabIndex = 14;
            this.label6.Text = "Set the width of the captured video frame (optional).";

            // 
            // label7
            // 
            this.label7.AutoSize = true;
            this.label7.Location = new System.Drawing.Point(12, 635);
            this.label7.Name = "label7";
            this.label7.Size = new System.Drawing.Size(150, 13);
            this.label7.TabIndex = 15;
            this.label7.Text = "Set the height of the captured video frame (optional).";

            // 
            // nmCaptureHeight
            // 
            this.nmCaptureHeight.Location = new System.Drawing.Point(12, 655);
            this.nmCaptureHeight.Name = "nmCaptureHeight";
            this.nmCaptureHeight.Size = new System.Drawing.Size(100, 20);
            this.nmCaptureHeight.TabIndex = 16;

            // 
            // label8
            // 
            this.label8.AutoSize = true;
            this.label8.Location = new System.Drawing.Point(12, 675);
            this.label8.Name = "label8";
            this.label8.Size = new System.Drawing.Size(150, 13);
            this.label8.TabIndex = 17;
            this.label8.Text = "Set the width of the output video file (optional).";

            // 
            // nmOutputHeight
            // 
            this.nmOutputHeight.Location = new System.Drawing.Point(12, 695);
            this.nmOutputHeight.Name = "nmOutputHeight";
            this.nmOutputHeight.Size = new System.Drawing.Size(100, 20);
            this.nmOutputHeight.TabIndex = 18;

            // 
            // label9
            // 
            this.label9.AutoSize = true;
            this.label9.Location = new System.Drawing.Point(12, 715);
            this.label9.Name = "label9";
            this.label9.Size = new System.Drawing.Size(150, 13);
            this.label9.TabIndex = 19;
            this.label9.Text = "Set the height of the output video file (optional).";

            // 
            // nmOutputWidth
            // 
            this.nmOutputWidth.Location = new System.Drawing.Point(12, 735);
            this.nmOutputWidth.Name = "nmOutputWidth";
            this.nmOutputWidth.Size = new System.Drawing.Size(100, 20);
            this.nmOutputWidth.TabIndex = 20;

            // 
            // label10
            // 
            this.label10.AutoSize = true;
            this.label10.Location = new System.Drawing.Point(12, 755);
            this.label10.Name = "label10";
            this.label10.Size = new System.Drawing.Size(150, 13);
            this.label10.TabIndex = 21;
            this.label10.Text = "Set the width of the output video file (optional).";

            // 
            // grpProperties
            // 
            this.grpProperties.ResumeLayout(false);
            this.grpProperties.PerformLayout();

            // 
            // nmCaptureWidth
            // 
            ((System.ComponentModel.ISupportInitialize)(this.nmCaptureWidth)).EndInit();

            // 
            // nmCaptureHeight
            // 
            ((System.ComponentModel.ISupportInitialize)(this.nmCaptureHeight)).EndInit();

            // 
            // nmOutputWidth
            // 
            ((System.ComponentModel.ISupportInitialize)(this.nmOutputWidth)).EndInit();

            // 
            // nmOutputHeight
            // 
            ((System.ComponentModel.ISupportInitialize)(this.nmOutputHeight)).EndInit();
            this.ResumeLayout(false);

            // 
            // Form1
            // 
            this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
            this.ClientSize = new System.Drawing.Size(450, 250);
            this.Controls.Add(this.pnlPreview);
            this.Controls.Add(this.grpProperties);
            this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.FixedSingle;
            this.MaximizeBox = false;
            this.MinimizeBox = false;
            this.Name = "Form1";
            this.Text = "Screen Capturing Client";
        }
    }
}
```

```
this.numericUpDown1 = new System.Windows.Forms.NumericUpDown();
this.label11 = new System.Windows.Forms.Label();
this.cmbCaptureAreaType = new System.Windows.Forms.ComboBox();
this.label12 = new System.Windows.Forms.Label();
this.txtOutputFile = new System.Windows.Forms.TextBox();
this.btnOutputFile = new System.Windows.Forms.Button();
this.btnLogFile = new System.Windows.Forms.Button();
this.label13 = new System.Windows.Forms.Label();
this.nmCaptureTop = new System.Windows.Forms.NumericUpDown();
this.label14 = new System.Windows.Forms.Label();
this.nmCaptureLeft = new System.Windows.Forms.NumericUpDown();
this.btnRecord = new System.Windows.Forms.Button();
this.lblStatus = new System.Windows.Forms.Label();
this.lstOverlays = new System.Windows.Forms.ListView();
this.label15 = new System.Windows.Forms.Label();
this.columnHeader1 = new System.Windows.Forms.ColumnHeader();
this.btnAddTextOverlay = new System.Windows.Forms.Button();
this.btnAddImageOverlay = new System.Windows.Forms.Button();
this.btnRemoveOverlay = new System.Windows.Forms.Button();
this.pnlCurrentOverlay = new System.Windows.Forms.Panel();
this.chkEnableWebcam = new System.Windows.Forms.CheckBox();
this.label16 = new System.Windows.Forms.Label();
this.nmWebCamTop = new System.Windows.Forms.NumericUpDown();
this.label17 = new System.Windows.Forms.Label();
this.nmWebCamLeft = new System.Windows.Forms.NumericUpDown();
this.label18 = new System.Windows.Forms.Label();
this.nmWebCamHeight = new System.Windows.Forms.NumericUpDown();
this.label19 = new System.Windows.Forms.Label();
this.nmWebCamWidth = new System.Windows.Forms.NumericUpDown();
this.grpProperties.SuspendLayout();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureWidth)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureHeight)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmOutputHeight)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmOutputWidth)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.numericUpDown1)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureTop)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureLeft)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamTop)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamLeft)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamHeight)).BeginInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamWidth)).BeginInit();
this.SuspendLayout();
//
// pnlPreview
//
this.pnlPreview.BackColor = System.Drawing.Color.DarkGray;
this.pnlPreview.Location = new System.Drawing.Point(12, 12);
this.pnlPreview.Name = "pnlPreview";
this.pnlPreview.Size = new System.Drawing.Size(350, 303);
this.pnlPreview.TabIndex = 0;
//
// cmbWebCam
//
this.cmbWebCam.DropDownStyle = System.Windows.Forms.ComboBoxStyle.DropDownList;
this.cmbWebCam.Enabled = false;
this.cmbWebCam.FormattingEnabled = true;
this.cmbWebCam.Location = new System.Drawing.Point(26, 57);
this.cmbWebCam.Name = "cmbWebCam";
this.cmbWebCam.Size = new System.Drawing.Size(250, 21);
this.cmbWebCam.TabIndex = 1;
```

```
//  
// grpProperties  
//  
this.grpProperties.Controls.Add(this.label16);  
this.grpProperties.Controls.Add(this.nmWebCamTop);  
this.grpProperties.Controls.Add(this.label17);  
this.grpProperties.Controls.Add(this.nmWebCamLeft);  
this.grpProperties.Controls.Add(this.label18);  
this.grpProperties.Controls.Add(this.nmWebCamHeight);  
this.grpProperties.Controls.Add(this.label19);  
this.grpProperties.Controls.Add(this.nmWebCamWidth);  
this.grpProperties.Controls.Add(this.chkEnableWebcam);  
this.grpProperties.Controls.Add(this.label13);  
this.grpProperties.Controls.Add(this.nmCaptureTop);  
this.grpProperties.Controls.Add(this.label14);  
this.grpProperties.Controls.Add(this.nmCaptureLeft);  
this.grpProperties.Controls.Add(this.btnLogFile);  
this.grpProperties.Controls.Add(this.btnOutputFile);  
this.grpProperties.Controls.Add(this.label12);  
this.grpProperties.Controls.Add(this.txtOutputFile);  
this.grpProperties.Controls.Add(this.label11);  
this.grpProperties.Controls.Add(this.cmbCaptureAreaType);  
this.grpProperties.Controls.Add(this.label10);  
this.grpProperties.Controls.Add(this.numericUpDown1);  
this.grpProperties.Controls.Add(this.label8);  
this.grpProperties.Controls.Add(this.nmOutputHeight);  
this.grpProperties.Controls.Add(this.label9);  
this.grpProperties.Controls.Add(this.nmOutputWidth);  
this.grpProperties.Controls.Add(this.label7);  
this.grpProperties.Controls.Add(this.nmCaptureHeight);  
this.grpProperties.Controls.Add(this.label6);  
this.grpProperties.Controls.Add(this.nmCaptureWidth);  
this.grpProperties.Controls.Add(this.label5);  
this.grpProperties.Controls.Add(this.cmbAudioCodecs);  
this.grpProperties.Controls.Add(this.label4);  
this.grpProperties.Controls.Add(this.cmbVideoCodec);  
this.grpProperties.Controls.Add(this.label3);  
this.grpProperties.Controls.Add(this.txtLogFile);  
this.grpProperties.Controls.Add(this.chkEnableAudio);  
this.grpProperties.Controls.Add(this.label2);  
this.grpProperties.Controls.Add(this.cmbAudioDevices);  
this.grpProperties.Controls.Add(this.label1);  
this.grpProperties.Controls.Add(this.cmbWebCam);  
this.grpProperties.Location = new System.Drawing.Point(368, 12);  
this.grpProperties.Name = "grpProperties";  
this.grpProperties.Size = new System.Drawing.Size(309, 511);  
this.grpProperties.TabIndex = 2;  
this.grpProperties.TabStop = false;  
this.grpProperties.Text = "Capturer Properties";  
//  
// label2  
//  
this.label2.AutoSize = true;  
this.label2.Location = new System.Drawing.Point(23, 266);  
this.label2.Name = "label2";  
this.label2.Size = new System.Drawing.Size(101, 13);  
this.label2.TabIndex = 4;  
this.label2.Text = "Select audio device";  
//  
// cmbAudioDevices
```

```
//  
this.cmbAudioDevices.DropDownStyle = System.Windows.Forms.ComboBoxStyle.Dro  
this.cmbAudioDevices.Enabled = false;  
this.cmbAudioDevices.FormattingEnabled = true;  
this.cmbAudioDevices.Location = new System.Drawing.Point(26, 282);  
this.cmbAudioDevices.Name = "cmbAudioDevices";  
this.cmbAudioDevices.Size = new System.Drawing.Size(250, 21);  
this.cmbAudioDevices.TabIndex = 3;  
  
//  
// label1  
//  
this.label1.AutoSize = true;  
this.label1.Location = new System.Drawing.Point(23, 39);  
this.label1.Name = "label1";  
this.label1.Size = new System.Drawing.Size(80, 13);  
this.label1.TabIndex = 2;  
this.label1.Text = "Select webcam";  
  
//  
// chkEnableAudio  
//  
this.chkEnableAudio.AutoSize = true;  
this.chkEnableAudio.Location = new System.Drawing.Point(6, 246);  
this.chkEnableAudio.Name = "chkEnableAudio";  
this.chkEnableAudio.Size = new System.Drawing.Size(88, 17);  
this.chkEnableAudio.TabIndex = 5;  
this.chkEnableAudio.Text = "Enable audio";  
this.chkEnableAudio.UseVisualStyleBackColor = true;  
this.chkEnableAudio.CheckedChanged += new System.EventHandler(this.chkEnab  
//  
// txtLogFile  
//  
this.txtLogFile.Location = new System.Drawing.Point(6, 481);  
this.txtLogFile.Name = "txtLogFile";  
this.txtLogFile.Size = new System.Drawing.Size(259, 20);  
this.txtLogFile.TabIndex = 6;  
this.txtLogFile.Text = "C:\\bytescout_log.txt";  
  
//  
// label3  
//  
this.label3.AutoSize = true;  
this.label3.Location = new System.Drawing.Point(7, 465);  
this.label3.Name = "label3";  
this.label3.Size = new System.Drawing.Size(41, 13);  
this.label3.TabIndex = 7;  
this.label3.Text = "Log file";  
  
//  
// label4  
//  
this.label4.AutoSize = true;  
this.label4.Location = new System.Drawing.Point(3, 122);  
this.label4.Name = "label4";  
this.label4.Size = new System.Drawing.Size(99, 13);  
this.label4.TabIndex = 9;  
this.label4.Text = "Select video codec";  
  
//  
// cmbVideoCodec  
//  
this.cmbVideoCodec.DropDownStyle = System.Windows.Forms.ComboBoxStyle.Dro  
this.cmbVideoCodec.FormattingEnabled = true;  
this.cmbVideoCodec.Location = new System.Drawing.Point(6, 138);
```

```
this.cmbVideoCodec.Name = "cmbVideoCodec";
this.cmbVideoCodec.Size = new System.Drawing.Size(219, 21);
this.cmbVideoCodec.TabIndex = 8;
//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(23, 310);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(99, 13);
this.label5.TabIndex = 11;
this.label5.Text = "Select audio codec";
//
// cmbAudioCodecs
//
this.cmbAudioCodecs.DropDownStyle = System.Windows.Forms.ComboBoxStyle.DropDown;
this.cmbAudioCodecs.Enabled = false;
this.cmbAudioCodecs.FormattingEnabled = true;
this.cmbAudioCodecs.Location = new System.Drawing.Point(26, 326);
this.cmbAudioCodecs.Name = "cmbAudioCodecs";
this.cmbAudioCodecs.Size = new System.Drawing.Size(250, 21);
this.cmbAudioCodecs.TabIndex = 10;
//
// nmCaptureWidth
//
this.nmCaptureWidth.Location = new System.Drawing.Point(158, 182);
this.nmCaptureWidth.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmCaptureWidth.Minimum = new decimal(new int[] {
10,
0,
0,
0});
this.nmCaptureWidth.Name = "nmCaptureWidth";
this.nmCaptureWidth.Size = new System.Drawing.Size(68, 20);
this.nmCaptureWidth.TabIndex = 12;
this.nmCaptureWidth.Value = new decimal(new int[] {
1024,
0,
0,
0});
//
// label6
//
this.label6.AutoSize = true;
this.label6.Location = new System.Drawing.Point(155, 166);
this.label6.Name = "label6";
this.label6.Size = new System.Drawing.Size(72, 13);
this.label6.TabIndex = 13;
this.label6.Text = "Capture width";
//
// label7
//
this.label7.AutoSize = true;
this.label7.Location = new System.Drawing.Point(232, 167);
this.label7.Name = "label7";
this.label7.Size = new System.Drawing.Size(76, 13);
```

```
this.label7.TabIndex = 15;
this.label7.Text = "Capture height";
//
// nmCaptureHeight
//
this.nmCaptureHeight.Location = new System.Drawing.Point(232, 183);
this.nmCaptureHeight.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmCaptureHeight.Minimum = new decimal(new int[] {
10,
0,
0,
0});
this.nmCaptureHeight.Name = "nmCaptureHeight";
this.nmCaptureHeight.Size = new System.Drawing.Size(68, 20);
this.nmCaptureHeight.TabIndex = 14;
this.nmCaptureHeight.Value = new decimal(new int[] {
768,
0,
0,
0});
//
// label8
//
this.label8.AutoSize = true;
this.label8.Location = new System.Drawing.Point(80, 204);
this.label8.Name = "label8";
this.label8.Size = new System.Drawing.Size(71, 13);
this.label8.TabIndex = 19;
this.label8.Text = "Output height";
//
// nmOutputHeight
//
this.nmOutputHeight.Location = new System.Drawing.Point(83, 220);
this.nmOutputHeight.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmOutputHeight.Minimum = new decimal(new int[] {
10,
0,
0,
0});
this.nmOutputHeight.Name = "nmOutputHeight";
this.nmOutputHeight.Size = new System.Drawing.Size(68, 20);
this.nmOutputHeight.TabIndex = 18;
this.nmOutputHeight.Value = new decimal(new int[] {
768,
0,
0,
0});
//
// label9
//
this.label9.AutoSize = true;
this.label9.Location = new System.Drawing.Point(3, 203);
```

```
this.label9.Name = "label9";
this.label9.Size = new System.Drawing.Size(67, 13);
this.label9.TabIndex = 17;
this.label9.Text = "Output width";
//
// nmOutputWidth
//
this.nmOutputWidth.Location = new System.Drawing.Point(6, 220);
this.nmOutputWidth.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmOutputWidth.Minimum = new decimal(new int[] {
10,
0,
0,
0});
this.nmOutputWidth.Name = "nmOutputWidth";
this.nmOutputWidth.Size = new System.Drawing.Size(68, 20);
this.nmOutputWidth.TabIndex = 16;
this.nmOutputWidth.Value = new decimal(new int[] {
1024,
0,
0,
0});
//
// label10
//
this.label10.AutoSize = true;
this.label10.Location = new System.Drawing.Point(154, 204);
this.label10.Name = "label10";
this.label10.Size = new System.Drawing.Size(54, 13);
this.label10.TabIndex = 21;
this.label10.Text = "Framerate";
//
// numericUpDown1
//
this.numericUpDown1.DecimalPlaces = 2;
this.numericUpDown1.Location = new System.Drawing.Point(157, 220);
this.numericUpDown1.Maximum = new decimal(new int[] {
60,
0,
0,
0});
this.numericUpDown1.Minimum = new decimal(new int[] {
1,
0,
0,
0});
this.numericUpDown1.Name = "numericUpDown1";
this.numericUpDown1.Size = new System.Drawing.Size(68, 20);
this.numericUpDown1.TabIndex = 20;
this.numericUpDown1.Value = new decimal(new int[] {
15,
0,
0,
0});
//
// label11
```

```
//  
this.label11.AutoSize = true;  
this.label11.Location = new System.Drawing.Point(3, 359);  
this.label11.Name = "label11";  
this.label11.Size = new System.Drawing.Size(91, 13);  
this.label11.TabIndex = 23;  
this.label11.Text = "Capture area type";  
//  
// cmbCaptureAreaType  
//  
this.cmbCaptureAreaType.DropDownStyle = System.Windows.Forms.ComboBoxStyle  
this.cmbCaptureAreaType.FormattingEnabled = true;  
this.cmbCaptureAreaType.Location = new System.Drawing.Point(6, 375);  
this.cmbCaptureAreaType.Name = "cmbCaptureAreaType";  
this.cmbCaptureAreaType.Size = new System.Drawing.Size(219, 21);  
this.cmbCaptureAreaType.TabIndex = 22;  
//  
// label12  
//  
this.label12.AutoSize = true;  
this.label12.Location = new System.Drawing.Point(5, 407);  
this.label12.Name = "label12";  
this.label12.Size = new System.Drawing.Size(66, 13);  
this.label12.TabIndex = 25;  
this.label12.Text = "Captured file";  
//  
// txtOutputFile  
//  
this.txtOutputFile.Location = new System.Drawing.Point(6, 423);  
this.txtOutputFile.Name = "txtOutputFile";  
this.txtOutputFile.Size = new System.Drawing.Size(259, 20);  
this.txtOutputFile.TabIndex = 24;  
this.txtOutputFile.Text = "C:\\bytescout_capture.avi";  
//  
// btnOutputFile  
//  
this.btnOutputFile.Location = new System.Drawing.Point(271, 413);  
this.btnOutputFile.Name = "btnOutputFile";  
this.btnOutputFile.Size = new System.Drawing.Size(29, 23);  
this.btnOutputFile.TabIndex = 26;  
this.btnOutputFile.Text = "...";  
this.btnOutputFile.UseVisualStyleBackColor = true;  
this.btnOutputFile.Click += new System.EventHandler(this.btnOutputFile_Click);  
//  
// btnLogFile  
//  
this.btnLogFile.Location = new System.Drawing.Point(271, 478);  
this.btnLogFile.Name = "btnLogFile";  
this.btnLogFile.Size = new System.Drawing.Size(29, 23);  
this.btnLogFile.TabIndex = 27;  
this.btnLogFile.Text = "...";  
this.btnLogFile.UseVisualStyleBackColor = true;  
this.btnLogFile.Click += new System.EventHandler(this.btnLogFile_Click);  
//  
// label13  
//  
this.label13.AutoSize = true;  
this.label13.Location = new System.Drawing.Point(81, 165);  
this.label13.Name = "label13";  
this.label13.Size = new System.Drawing.Size(62, 13);
```

```
this.label13.TabIndex = 31;
this.label13.Text = "Capture top";
//
// nmCaptureTop
//
this.nmCaptureTop.Location = new System.Drawing.Point(81, 181);
this.nmCaptureTop.Maximum = new decimal(new int[] {
500,
0,
0,
0});
this.nmCaptureTop.Name = "nmCaptureTop";
this.nmCaptureTop.Size = new System.Drawing.Size(68, 20);
this.nmCaptureTop.TabIndex = 30;
this.nmCaptureTop.Value = new decimal(new int[] {
10,
0,
0,
0});
//
// label14
//
this.label14.AutoSize = true;
this.label14.Location = new System.Drawing.Point(4, 165);
this.label14.Name = "label14";
this.label14.Size = new System.Drawing.Size(61, 13);
this.label14.TabIndex = 29;
this.label14.Text = "Capture left";
//
// nmCaptureLeft
//
this.nmCaptureLeft.Location = new System.Drawing.Point(7, 181);
this.nmCaptureLeft.Maximum = new decimal(new int[] {
500,
0,
0,
0});
this.nmCaptureLeft.Name = "nmCaptureLeft";
this.nmCaptureLeft.Size = new System.Drawing.Size(68, 20);
this.nmCaptureLeft.TabIndex = 28;
this.nmCaptureLeft.Value = new decimal(new int[] {
10,
0,
0,
0});
//
// btnRecord
//
this.btnRecord.Location = new System.Drawing.Point(12, 327);
this.btnRecord.Name = "btnRecord";
this.btnRecord.Size = new System.Drawing.Size(75, 23);
this.btnRecord.TabIndex = 3;
this.btnRecord.Text = "Record";
this.btnRecord.UseVisualStyleBackColor = true;
this.btnRecord.Click += new System.EventHandler(this.btnRecord_Click);
//
// lblStatus
//
this.lblStatus.AutoSize = true;
this.lblStatus.Location = new System.Drawing.Point(94, 334);
```

```
this.lblStatus.Name = "lblStatus";
this.lblStatus.Size = new System.Drawing.Size(47, 13);
this.lblStatus.TabIndex = 4;
this.lblStatus.Text = "Stopped";
//
// lstOverlays
//
this.lstOverlays.Columns.AddRange(new System.Windows.Forms.ColumnHeader[] {
this.columnHeader1});
this.lstOverlays.GridLines = true;
this.lstOverlays.Location = new System.Drawing.Point(12, 372);
this.lstOverlays.Name = "lstOverlays";
this.lstOverlays.Size = new System.Drawing.Size(350, 122);
this.lstOverlays.TabIndex = 5;
this.lstOverlays.UseCompatibleStateImageBehavior = false;
this.lstOverlays.View = System.Windows.Forms.View.Details;
this.lstOverlays.SelectedIndexChanged += new System.EventHandler(this.lstOverlays_SelectedIndexChanged);
//
// label15
//
this.label15.AutoSize = true;
this.label15.Location = new System.Drawing.Point(12, 356);
this.label15.Name = "label15";
this.label15.Size = new System.Drawing.Size(48, 13);
this.label15.TabIndex = 24;
this.label15.Text = "Overlays";
//
// columnHeader1
//
this.columnHeader1.Text = "Overlay";
this.columnHeader1.Width = 341;
//
// btnAddTextOverlay
//
this.btnAddTextOverlay.Location = new System.Drawing.Point(15, 500);
this.btnAddTextOverlay.Name = "btnAddTextOverlay";
this.btnAddTextOverlay.Size = new System.Drawing.Size(106, 23);
this.btnAddTextOverlay.TabIndex = 25;
this.btnAddTextOverlay.Text = "Add Text Overlay";
this.btnAddTextOverlay.UseVisualStyleBackColor = true;
this.btnAddTextOverlay.Click += new System.EventHandler(this.btnAddTextOverlay_Click);
//
// btnAddImageOverlay
//
this.btnAddImageOverlay.Location = new System.Drawing.Point(127, 500);
this.btnAddImageOverlay.Name = "btnAddImageOverlay";
this.btnAddImageOverlay.Size = new System.Drawing.Size(106, 23);
this.btnAddImageOverlay.TabIndex = 26;
this.btnAddImageOverlay.Text = "Add Image Overlay";
this.btnAddImageOverlay.UseVisualStyleBackColor = true;
this.btnAddImageOverlay.Click += new System.EventHandler(this.btnAddImageOverlay_Click);
//
// btnRemoveOverlay
//
this.btnRemoveOverlay.Location = new System.Drawing.Point(287, 500);
this.btnRemoveOverlay.Name = "btnRemoveOverlay";
this.btnRemoveOverlay.Size = new System.Drawing.Size(75, 23);
this.btnRemoveOverlay.TabIndex = 27;
this.btnRemoveOverlay.Text = "Remove";
this.btnRemoveOverlay.UseVisualStyleBackColor = true;
```

```
this.btnAddOverlay.Click += new System.EventHandler(this.btnAddOverlay);
//
// pnlCurrentOverlay
//
this.pnlCurrentOverlay.BackColor = System.Drawing.Color.LightGray;
this.pnlCurrentOverlay.Location = new System.Drawing.Point(12, 538);
this.pnlCurrentOverlay.Name = "pnlCurrentOverlay";
this.pnlCurrentOverlay.Size = new System.Drawing.Size(664, 168);
this.pnlCurrentOverlay.TabIndex = 28;
//
// chkEnableWebcam
//
this.chkEnableWebcam.AutoSize = true;
this.chkEnableWebcam.Location = new System.Drawing.Point(7, 19);
this.chkEnableWebcam.Name = "chkEnableWebcam";
this.chkEnableWebcam.Size = new System.Drawing.Size(88, 17);
this.chkEnableWebcam.TabIndex = 32;
this.chkEnableWebcam.Text = "Add webcam";
this.chkEnableWebcam.UseVisualStyleBackColor = true;
this.chkEnableWebcam.CheckedChanged += new System.EventHandler(this.chkEnableWebcam_CheckedChanged);
//
// label16
//
this.label16.AutoSize = true;
this.label16.Location = new System.Drawing.Point(71, 83);
this.label16.Name = "label16";
this.label16.Size = new System.Drawing.Size(26, 13);
this.label16.TabIndex = 40;
this.label16.Text = "Top";
//
// nmWebCamTop
//
this.nmWebCamTop.Enabled = false;
this.nmWebCamTop.Location = new System.Drawing.Point(75, 99);
this.nmWebCamTop.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmWebCamTop.Name = "nmWebCamTop";
this.nmWebCamTop.Size = new System.Drawing.Size(45, 20);
this.nmWebCamTop.TabIndex = 39;
this.nmWebCamTop.Value = new decimal(new int[] {
10,
0,
0,
0});
//
// label17
//
this.label17.AutoSize = true;
this.label17.Location = new System.Drawing.Point(23, 83);
this.label17.Name = "label17";
this.label17.Size = new System.Drawing.Size(25, 13);
this.label17.TabIndex = 38;
this.label17.Text = "Left";
//
// nmWebCamLeft
//
this.nmWebCamLeft.Enabled = false;
```

```
this.nmWebCamLeft.Location = new System.Drawing.Point(26, 99);
this.nmWebCamLeft.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmWebCamLeft.Name = "nmWebCamLeft";
this.nmWebCamLeft.Size = new System.Drawing.Size(45, 20);
this.nmWebCamLeft.TabIndex = 37;
this.nmWebCamLeft.Value = new decimal(new int[] {
10,
0,
0,
0});
//
// label18
//
this.label18.AutoSize = true;
this.label18.Location = new System.Drawing.Point(174, 83);
this.label18.Name = "label18";
this.label18.Size = new System.Drawing.Size(38, 13);
this.label18.TabIndex = 36;
this.label18.Text = "Height";
//
// nmWebCamHeight
//
this.nmWebCamHeight.Enabled = false;
this.nmWebCamHeight.Location = new System.Drawing.Point(177, 99);
this.nmWebCamHeight.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmWebCamHeight.Minimum = new decimal(new int[] {
10,
0,
0,
0});
this.nmWebCamHeight.Name = "nmWebCamHeight";
this.nmWebCamHeight.Size = new System.Drawing.Size(45, 20);
this.nmWebCamHeight.TabIndex = 35;
this.nmWebCamHeight.Value = new decimal(new int[] {
120,
0,
0,
0});
//
// label19
//
this.label19.AutoSize = true;
this.label19.Location = new System.Drawing.Point(123, 83);
this.label19.Name = "label19";
this.label19.Size = new System.Drawing.Size(35, 13);
this.label19.TabIndex = 34;
this.label19.Text = "Width";
//
// nmWebCamWidth
//
this.nmWebCamWidth.Enabled = false;
this.nmWebCamWidth.Location = new System.Drawing.Point(126, 99);
```

```
this.nmWebCamWidth.Maximum = new decimal(new int[] {
5000,
0,
0,
0});
this.nmWebCamWidth.Minimum = new decimal(new int[] {
10,
0,
0,
0});
this.nmWebCamWidth.Name = "nmWebCamWidth";
this.nmWebCamWidth.Size = new System.Drawing.Size(45, 20);
this.nmWebCamWidth.TabIndex = 33;
this.nmWebCamWidth.Value = new decimal(new int[] {
160,
0,
0,
0});
//
// Form1
//
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(680, 711);
this.Controls.Add(this.pnlCurrentOverlay);
this.Controls.Add(this.btnRemoveOverlay);
this.Controls.Add(this.btnAddImageOverlay);
this.Controls.Add(this.btnAddTextOverlay);
this.Controls.Add(this.label15);
this.Controls.Add(this.lstOverlays);
this.Controls.Add(this.lblStatus);
this.Controls.Add(this.btnRecord);
this.Controls.Add(this.grpProperties);
this.Controls.Add(this.pnlPreview);
this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.Fixed3D;
this.MaximizeBox = false;
this.Name = "Form1";
this.Text = "Bytescout Screen Capturing Client";
this.Load += new System.EventHandler(this.Form1_Load);
this.grpProperties.ResumeLayout(false);
this.grpProperties.PerformLayout();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureWidth)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureHeight)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmOutputHeight)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmOutputWidth)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.numericUpDown1)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureTop)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmCaptureLeft)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamTop)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamLeft)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamHeight)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmWebCamWidth)).EndInit();
this.ResumeLayout(false);
this.PerformLayout();

}

#endregion

private System.Windows.Forms.Panel pnlPreview;
```

```
private System.Windows.Forms.ComboBox cmbWebCam;
private System.Windows.Forms.GroupBox grpProperties;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.ComboBox cmbAudioDevices;
private System.Windows.Forms.CheckBox chkEnableAudio;
private System.Windows.Forms.Label label3;
private System.Windows.Forms.TextBox txtLogFile;
private System.Windows.Forms.Label label4;
private System.Windows.Forms.ComboBox cmbVideoCodec;
private System.Windows.Forms.Label label5;
private System.Windows.Forms.ComboBox cmbAudioCodecs;
private System.Windows.Forms.Label label7;
private System.Windows.Forms.NumericUpDown nmCaptureHeight;
private System.Windows.Forms.Label label6;
private System.Windows.Forms.NumericUpDown nmCaptureWidth;
private System.Windows.Forms.Label label8;
private System.Windows.Forms.NumericUpDown nmOutputHeight;
private System.Windows.Forms.Label label9;
private System.Windows.Forms.NumericUpDown nmOutputWidth;
private System.Windows.Forms.Label label10;
private System.Windows.Forms.NumericUpDown numericUpDown1;
private System.Windows.Forms.Label label11;
private System.Windows.Forms.ComboBox cmbCaptureAreaType;
private System.Windows.Forms.Label label12;
private System.Windows.Forms.TextBox txtOutputFile;
private System.Windows.Forms.Button btnOutputFile;
private System.Windows.Forms.Button btnLogFile;
private System.Windows.Forms.Label label13;
private System.Windows.Forms.NumericUpDown nmCaptureTop;
private System.Windows.Forms.Label label14;
private System.Windows.Forms.NumericUpDown nmCaptureLeft;
private System.Windows.Forms.Button btnRecord;
private System.Windows.Forms.Label lblStatus;
private System.Windows.Forms.ListView lstOverlays;
private System.Windows.Forms.ColumnHeader columnHeader1;
private System.Windows.Forms.Label label15;
private System.Windows.Forms.Button btnAddTextOverlay;
private System.Windows.Forms.Button btnAddImageOverlay;
private System.Windows.Forms.Button btnRemoveOverlay;
private System.Windows.Forms.Panel pnlCurrentOverlay;
private System.Windows.Forms.CheckBox chkEnableWebcam;
private System.Windows.Forms.Label label16;
private System.Windows.Forms.NumericUpDown nmWebCamTop;
private System.Windows.Forms.Label label17;
private System.Windows.Forms.NumericUpDown nmWebCamLeft;
private System.Windows.Forms.Label label18;
private System.Windows.Forms.NumericUpDown nmWebCamHeight;
private System.Windows.Forms.Label label19;
private System.Windows.Forms.NumericUpDown nmWebCamWidth;
}
}
```

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;
using BytescoutScreenCapturingLib;

namespace ScreenCapturingClient
{
    public partial class Form1 : Form
    {
        ICapturer _capturer;
        int _previewHdc;
        Graphics _previewGraphics;

        public Form1()
        {
            InitializeComponent();
        }

        private void InitCapturer()
        {
            _capturer = new CapturerClass();
            _capturer.RegistrationName = "demo";
            _capturer.RegistrationKey = "demo";
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            try
            {
                InitCapturer();

                cmbWebCam.Items.Clear();
                for (int i = 0; i < _capturer.WebCamCount; i++)
                {
                    cmbWebCam.Items.Add(_capturer.GetWebCamName(i));
                }
                if(cmbWebCam.Items.Count > 0)
                    cmbWebCam.SelectedIndex = 0;

                cmbVideoCodec.Items.Clear();
                for (int i = 0; i < _capturer.VideoCodecsCount; i++)
                {
                    cmbVideoCodec.Items.Add(_capturer.GetVideoCodecName(i));
                }
                if(cmbVideoCodec.Items.Count > 0)
                    cmbVideoCodec.SelectedIndex = 0;

                cmbAudioDevices.Items.Clear();
                for (int i = 0; i < _capturer.AudioDeviceCount; i++)
                {
                    cmbAudioDevices.Items.Add(_capturer.GetAudioDeviceName(i));
                }
            }
        }
    }
}
```

```

        }

        if(cmbAudioDevices.Items.Count > 0)
            cmbAudioDevices.SelectedIndex = 0;

        cmbAudioCodecs.Items.Clear();
        for (int i = 0; i < _capturer.AudioCodecsCount; i++)
        {
            cmbAudioCodecs.Items.Add(_capturer.GetAudioCodecName(i));
        }
        if(cmbAudioCodecs.Items.Count > 0)
            cmbAudioCodecs.SelectedIndex = 0;

        cmbCaptureAreaType.Items.Clear();
        cmbCaptureAreaType.DataSource = Enum.GetValues(typeof(CaptureAreaType));
        cmbCaptureAreaType.SelectedIndex = 0;
    }

    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
}

private void chkEnableAudio_CheckedChanged(object sender, EventArgs e)
{
    cmbAudioDevices.Enabled = chkEnableAudio.Checked;
    cmbAudioCodecs.Enabled = chkEnableAudio.Checked;
}

private void chkEnableWebcam_CheckedChanged(object sender, EventArgs e)
{
    _capturer.AddWebCamVideo = chkEnableWebcam.Checked;

    cmbWebCam.Enabled = chkEnableWebcam.Checked;
    nmWebCamLeft.Enabled = chkEnableWebcam.Checked;
    nmWebCamTop.Enabled = chkEnableWebcam.Checked;
    nmWebCamWidth.Enabled = chkEnableWebcam.Checked;
    nmWebCamHeight.Enabled = chkEnableWebcam.Checked;
}

private void btnOutputFile_Click(object sender, EventArgs e)
{
    OpenFileDialog dlg = new OpenFileDialog();
    if (dlg.ShowDialog() == DialogResult.OK)
    {
        txtOutputFile.Text = dlg.FileName;
    }
}

private void btnLogFile_Click(object sender, EventArgs e)
{
    OpenFileDialog dlg = new OpenFileDialog();
    if (dlg.ShowDialog() == DialogResult.OK)
    {
        txtLogFile.Text = dlg.FileName;
    }
}

private void btnRecord_Click(object sender, EventArgs e)
{
    try

```

```

    {
        if (_capturer.IsRunning)
        {
            _capturer.Stop();
            System.Runtime.InteropServices.Marshal.ReleaseComObject(_capturer)
            _capturer = null;
            InitCapturer();

            lstOverlays.Items.Clear();
            btnRecord.Text = "Record";
            grpProperties.Enabled = true;
            lblStatus.Text = "Stopped";
        }
        else
        {
            _capturer.AudioEnabled = chkEnableAudio.Checked;
            if (chkEnableAudio.Checked)
            {
                _capturer.CurrentAudioDeviceName = cmbAudioDevices.SelectedItem
                //_capturer.CurrentAudioCodecName = cmbAudioCodecs.SelectedItem
            }

            _capturer.AddWebCamVideo = chkEnableWebcam.Checked;
            if (chkEnableWebcam.Checked)
            {
                _capturer.SetWebCamVideoRectangle((int)nmWebCamLeft.Value, (int)nmWebCamTop.Value, (int)nmWebCamWidth.Value, (int)nmWebCamHeight.Value);
                _capturer.CurrentWebCamName = cmbWebCam.SelectedItem.ToString();
            }

            //_capturer.CurrentVideoCodecName = cmbVideoCodec.SelectedItem.ToString();

            if (!string.IsNullOrEmpty(txtLogFile.Text))
            {
                _capturer.SetLogFile(txtLogFile.Text);
            }

            _capturer.OutputFileName = txtOutputFile.Text;

            _capturer.CapturingType = (CaptureAreaType)cmbCaptureAreaType.SelectedItem;

            _previewGraphics = pnlPreview.CreateGraphics();
            _previewHdc = _previewGraphics.GetHdc().ToInt32();
            _capturer.SetFullPreviewContext(_previewHdc, 0, 0, pnlPreview.Width, pnlPreview.Height);

            _capturer.CaptureRectLeft = (int)nmCaptureLeft.Value;
            _capturer.CaptureRectTop = (int)nmCaptureTop.Value;
            _capturer.CaptureRectWidth = (int)nmCaptureWidth.Value;
            _capturer.CaptureRectHeight = (int)nmCaptureHeight.Value;

            _capturer.OutputWidth = (int)nmOutputWidth.Value;
            _capturer.OutputHeight = (int)nmOutputHeight.Value;

            foreach (ListViewItem item in lstOverlays.Items)
            {
                Overlay overlay = item.Tag as Overlay;
                if (overlay is TextOverlay)
                {
                    TextOverlay textOverlay = overlay as TextOverlay;

```

```

        int a = (int)textOverlay.BackColor.A;
        //_capturer.AddTextOverlay(textOverlay.Left, textOverlay.Top,
        //                           (int)textOverlay.Font.Size, textOverlay.
        //                           Font.Underline, (uint)a);
        _capturer.AddTextOverlayWithBackground2(textOverlay.Left, textOverlay.
        //                                         (int)textOverlay.Font.Size, textOverlay.
        //                                         Font.Underline,
        //                                         textOverlay.Color.R, textOverlay.Color.G,
        //                                         textOverlay.BackColor.R, textOverlay.
        }
    }
    else if (overlay is ImageOverlay)
    {
        ImageOverlay imageOverlay = overlay as ImageOverlay;
        _capturer.AddImageOverlay(imageOverlay.Left, imageOverlay.Top,
        }
    }

    _capturer.Run();

''' IMPORTANT: if you want to check for some code if need to stop the recording
''' using Thread.Sleep(1) inside the checking loop, so you have the loop like
''' Do {
''' Thread.Sleep(1)
''' }
''' While(StopButtonNotClicked);

        btnRecord.Text = "Stop";
        grpProperties.Enabled = false;
        lblStatus.Text = "Running";
    }
}
catch (Exception ex)
{
    MessageBox.Show(ex.Message);
}
}

private void btnAddTextOverlay_Click(object sender, EventArgs e)
{
    try
    {
        frmNewOverlay frm = new frmNewOverlay(true);
        if (frm.ShowDialog() == DialogResult.OK)
        {
            TextOverlay textOverlay = frm.GetOverlay() as TextOverlay;
            if (_capturer.IsRunning)
            {
                //_capturer.AddTextOverlay(overlay.Left, overlay.Top, overlay.
                //                           Font.Bold, overlay.Font.Italic);
                _capturer.AddTextOverlayWithBackground2(textOverlay.Left, textOverlay.
                //                                         (int)textOverlay.Font.Size, textOverlay.
                //                                         Font.Underline,
                //                                         textOverlay.Color.R, textOverlay.Color.G,
                //                                         textOverlay.BackColor.R, textOverlay.
                }
            }

            ListViewItem item = new ListViewItem();
            item.Text = textOverlay.ToString();
        }
    }
}

```

```

                item.Tag = textOverlay;
                lstOverlays.Items.Add(item);
            }
        }
        catch (Exception ex)
        {
            MessageBox.Show(ex.Message);
        }
    }

private void btnAddImageOverlay_Click(object sender, EventArgs e)
{
    try
    {
        frmNewOverlay frm = new frmNewOverlay(false);
        if (frm.ShowDialog() == DialogResult.OK)
        {
            ImageOverlay overlay = frm.GetOverlay() as ImageOverlay;

            if (_capturer.IsRunning)
            {
                _capturer.AddImageOverlay(overlay.Left, overlay.Top, overlay.F-
            }

            ListViewItem item = new ListViewItem();
            item.Text = overlay.ToString();
            item.Tag = overlay;
            lstOverlays.Items.Add(item);
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
}

private void btnRemoveOverlay_Click(object sender, EventArgs e)
{
    pnlCurrentOverlay.Controls.Clear();
    if (lstOverlays.SelectedItems.Count > 0)
    {
        if (_capturer.IsRunning)
        {
            _capturer.RemoveOverlay(lstOverlays.Items.IndexOf(lstOverlays.SelectedI-
        }
        lstOverlays.Items.Remove(lstOverlays.SelectedItems[0]);
    }
}

private void lstOverlays_SelectedIndexChanged(object sender, EventArgs e)
{
    pnlCurrentOverlay.Controls.Clear();
    if (lstOverlays.SelectedItems.Count > 0)
    {
        Overlay overlay = lstOverlays.SelectedItems[0].Tag as Overlay;
        if (overlay is TextOverlay)
        {
            ctrlTextOverlay ctrl = new ctrlTextOverlay(overlay as TextOverlay,
            ctrl.Dock = DockStyle.Fill;
        }
    }
}

```

```

        pnlCurrentOverlay.Controls.Add(ctrl);
    }
    else if (overlay is ImageOverlay)
    {
        ctrlImageOverlay ctrl = new ctrlImageOverlay(overlay as ImageOverlay);
        ctrl.Dock = DockStyle.Fill;

        pnlCurrentOverlay.Controls.Add(ctrl);
    }
}

}

```

Overlay.cs

```

using System;
using System.Collections.Generic;
using System.Text;
using System.Drawing;

namespace ScreenCapturingClient
{
    public class Overlay
    {
        int _left = 0;
        int _top = 0;
        bool _visible = true;

        public int Left { get{return _left;}set{_left = value;}}
        public int Top { get { return _top; } set { _top = value; } }
        public bool Visible { get { return _visible; } set { _visible = value; } }

    }

    public class TextOverlay : Overlay
    {
        string _text = string.Empty;
        Font _font = new Font("Arial", 10f);
        Color _color = Color.Red;
        Color _backColor = Color.Transparent;

        public string Text { get { return _text; } set { _text = value; } }
        public Font Font { get { return _font; } set { _font = value; } }
        public Color Color { get { return _color; } set { _color = value; } }
        public Color BackColor { get { return _backColor; } set { _backColor = value; } }

        public override string ToString()
    }
}

```

```
        {
            return string.Format("Text Overlay. Location: {0}, Text: {1}, Font: {2}", location, text, font);
        }
    }

public class ImageOverlay : Overlay
{
    string _fileName = string.Empty;

    public string FileName { get { return _fileName; } set { _fileName = value; } }

    public override string ToString()
    {
        return string.Format("Image Overlay. Location: {0}, File Name: {1}", location, fileName);
    }
}
```

Program.cs

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

namespace ScreenCapturingClient
{
    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());
        }
    }
}
```

ctrlImageOverlay.Designer.cs

```
namespace ScreenCapturingClient
{
    partial class ctrlImageOverlay
    {
        /// <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 Component 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.label2 = new System.Windows.Forms.Label();
            this.nmTop = new System.Windows.Forms.NumericUpDown();
            this.label1 = new System.Windows.Forms.Label();
            this.nmLeft = new System.Windows.Forms.NumericUpDown();
            this.chkVisible = new System.Windows.Forms.CheckBox();
            this.label3 = new System.Windows.Forms.Label();
            this.txtFileName = new System.Windows.Forms.TextBox();
            this.btnBrowseFile = new System.Windows.Forms.Button();
            ((System.ComponentModel.ISupportInitialize)(this.nmTop)).BeginInit();
            ((System.ComponentModel.ISupportInitialize)(this.nmLeft)).BeginInit();
            this.SuspendLayout();
            // 
            // label2
            // 
            this.label2.AutoSize = true;
            this.label2.Location = new System.Drawing.Point(63, 2);
            this.label2.Name = "label2";
            this.label2.Size = new System.Drawing.Size(26, 13);
            this.label2.TabIndex = 7;
            this.label2.Text = "Top";
            // 
            // nmTop
            // 
            this.nmTop.Location = new System.Drawing.Point(66, 18);
            this.nmTop.Maximum = new decimal(new int[] {
            10000,
            0,
            0,
            0});
            ((System.ComponentModel.ISupportInitialize)(this.nmTop)).EndInit();
            this.ResumeLayout(false);
        }

        #endregion
    }
}
```

```
0});  
this.nmTop.Name = "nmTop";  
this.nmTop.Size = new System.Drawing.Size(57, 20);  
this.nmTop.TabIndex = 6;  
this.nmTop.ValueChanged += new System.EventHandler(this.nmTop_ValueChanged);  
//  
// label1  
//  
this.label1.AutoSize = true;  
this.label1.Location = new System.Drawing.Point(0, 2);  
this.label1.Name = "label1";  
this.label1.Size = new System.Drawing.Size(25, 13);  
this.label1.TabIndex = 5;  
this.label1.Text = "Left";  
//  
// nmLeft  
//  
this.nmLeft.Location = new System.Drawing.Point(3, 18);  
this.nmLeft.Maximum = new decimal(new int[] {  
10000,  
0,  
0,  
0});  
this.nmLeft.Name = "nmLeft";  
this.nmLeft.Size = new System.Drawing.Size(57, 20);  
this.nmLeft.TabIndex = 4;  
this.nmLeft.ValueChanged += new System.EventHandler(this.nmLeft_ValueChanged);  
//  
// chkVisible  
//  
this.chkVisible.AutoSize = true;  
this.chkVisible.Checked = true;  
this.chkVisible.CheckState = System.Windows.Forms.CheckState.Checked;  
this.chkVisible.Location = new System.Drawing.Point(7, 93);  
this.chkVisible.Name = "chkVisible";  
this.chkVisible.Size = new System.Drawing.Size(56, 17);  
this.chkVisible.TabIndex = 14;  
this.chkVisible.Text = "Visible";  
this.chkVisible.UseVisualStyleBackColor = true;  
this.chkVisible.CheckedChanged += new System.EventHandler(this.chkVisible_CheckedChanged);  
//  
// label3  
//  
this.label3.AutoSize = true;  
this.label3.Location = new System.Drawing.Point(4, 42);  
this.label3.Name = "label3";  
this.label3.Size = new System.Drawing.Size(78, 13);  
this.label3.TabIndex = 16;  
this.label3.Text = "Image filename";  
//  
// txtFileName  
//  
this.txtFileName.Location = new System.Drawing.Point(4, 58);  
this.txtFileName.Name = "txtFileName";  
this.txtFileName.Size = new System.Drawing.Size(445, 20);  
this.txtFileName.TabIndex = 15;  
//  
// btnBrowseFile  
//  
this.btnBrowseFile.Location = new System.Drawing.Point(455, 56);
```

```

        this.btnBrowseFile.Name = "btnBrowseFile";
        this.btnBrowseFile.Size = new System.Drawing.Size(33, 23);
        this.btnBrowseFile.TabIndex = 17;
        this.btnBrowseFile.Text = "...";
        this.btnBrowseFile.UseVisualStyleBackColor = true;
        this.btnBrowseFile.Click += new System.EventHandler(this.btnBrowseFile_Click);
        //
        // ctrlImageOverlay
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.Controls.Add(this.btnBrowseFile);
        this.Controls.Add(this.label3);
        this.Controls.Add(this.txtFileName);
        this.Controls.Add(this.chkVisible);
        this.Controls.Add(this.label2);
        this.Controls.Add(this.nmTop);
        this.Controls.Add(this.label1);
        this.Controls.Add(this.nmLeft);
        this.Name = "ctrlImageOverlay";
        this.Size = new System.Drawing.Size(525, 150);
        ((System.ComponentModel.ISupportInitialize)(this.nmTop)).EndInit();
        ((System.ComponentModel.ISupportInitialize)(this.nmLeft)).EndInit();
        this.ResumeLayout(false);
        this.PerformLayout();
    }

}

#endregion

private System.Windows.Forms.Label label2;
private System.Windows.Forms.NumericUpDown nmTop;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.NumericUpDown nmLeft;
private System.Windows.Forms.CheckBox chkVisible;
private System.Windows.Forms.Label label3;
private System.Windows.Forms.TextBox txtFileName;
private System.Windows.Forms.Button btnBrowseFile;
}
}

```

ctrlImageOverlay.cs

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Drawing;
using System.Data;
using System.Text;
using System.Windows.Forms;

```

```
using BytescoutScreenCapturingLib;

namespace ScreenCapturingClient
{
    public partial class ctrlImageOverlay : UserControl
    {
        ImageOverlay _imageOverlay = null;
        ICapturer _capturer = null;
        int _index = -1;
        bool _isLoaded = false;

        public ctrlImageOverlay()
        {
            InitializeComponent();
        }

        public ctrlImageOverlay(ImageOverlay imageOverlay, int index, ICapturer capturer)
        {
            InitializeComponent();

            _imageOverlay = imageOverlay;
            _index = index;
            _capturer = capturer;

            nmLeft.Value = _imageOverlay.Left;
            nmTop.Value = _imageOverlay.Top;
            txtFileName.Text = _imageOverlay.FileName;
            chkVisible.Checked = _imageOverlay.Visible;

            txtFileName.Enabled = false;
            btnBrowseFile.Enabled = false;

            _isLoaded = true;
        }

        private void btnBrowseFile_Click(object sender, EventArgs e)
        {
            OpenFileDialog dlg = new OpenFileDialog();
            dlg.Filter = "Bitmap Files (*.bmp)|*.bmp|Png Files (*.png)|*.png";
            if (dlg.ShowDialog() == DialogResult.OK)
            {
                txtFileName.Text = dlg.FileName;
            }
        }

        private void nmLeft_ValueChanged(object sender, EventArgs e)
        {
            if (_imageOverlay != null && _capturer != null && _index != -1 && _isLoaded)
            {
                _capturer.UpdateOverlayPosition(_index, (int)nmLeft.Value, (int)nmTop.Value);
                _imageOverlay.Left = (int)nmLeft.Value;
            }
        }

        private void nmTop_ValueChanged(object sender, EventArgs e)
        {
            if (_imageOverlay != null && _capturer != null && _index != -1 && _isLoaded)
            {
                _capturer.UpdateOverlayPosition(_index, (int)nmLeft.Value, (int)nmTop.Value);
                _imageOverlay.Top = (int)nmTop.Value;
            }
        }
    }
}
```

```

        }

    public ImageOverlay GetImageOverlay()
    {
        if (_imageOverlay == null)
        {
            _imageOverlay = new ImageOverlay();
            _imageOverlay.Left = (int)nmLeft.Value;
            _imageOverlay.Top = (int)nmTop.Value;
            _imageOverlay.Visible = chkVisible.Checked;
            _imageOverlay.FileName = txtFileName.Text;
        }

        return _imageOverlay;
    }

    private void chkVisible_CheckedChanged(object sender, EventArgs e)
    {
        if (_imageOverlay != null && _capturer != null && _index != -1 && _isLoaded)
        {
            _capturer.UpdateOverlayVisibility(_index, chkVisible.Checked);
            _imageOverlay.Visible = chkVisible.Checked;
        }
    }
}
}

```

ctrlTextOverlay.Designer.cs

```

namespace ScreenCapturingClient
{
    partial class ctrlTextOverlay
    {
        /// <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 Component 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.nmLeft = new System.Windows.Forms.NumericUpDown();
    this.label1 = new System.Windows.Forms.Label();
    this.label2 = new System.Windows.Forms.Label();
    this.nmTop = new System.Windows.Forms.NumericUpDown();
    this.txtText = new System.Windows.Forms.TextBox();
    this.label3 = new System.Windows.Forms.Label();
    this.fontDialog1 = new System.Windows.Forms.FontDialog();
    this.label4 = new System.Windows.Forms.Label();
    this.txtFont = new System.Windows.Forms.TextBox();
    this.btnFont = new System.Windows.Forms.Button();
    this.label5 = new System.Windows.Forms.Label();
    this.pnlColor = new System.Windows.Forms.Panel();
    this.btnClose = new System.Windows.Forms.Button();
    this.chkVisible = new System.Windows.Forms.CheckBox();
    this.btnClose = new System.Windows.Forms.Button();
    this.btnClose = new System.Windows.Forms.Button();
    this.pnlBackColor = new System.Windows.Forms.Panel();
    this.chkBackColor = new System.Windows.Forms.CheckBox();
    ((System.ComponentModel.ISupportInitialize)(this.nmLeft)).BeginInit();
    ((System.ComponentModel.ISupportInitialize)(this.nmTop)).BeginInit();
    this.SuspendLayout();
    // 
    // nmLeft
    // 
    this.nmLeft.Location = new System.Drawing.Point(3, 23);
    this.nmLeft.Maximum = new decimal(new int[] {
        10000,
        0,
        0,
        0});
    this.nmLeft.Name = "nmLeft";
    this.nmLeft.Size = new System.Drawing.Size(57, 20);
    this.nmLeft.TabIndex = 0;
    this.nmLeft.ValueChanged += new System.EventHandler(this.nmLeft_ValueChanged);
    // 
    // label1
    // 
    this.label1.AutoSize = true;
    this.label1.Location = new System.Drawing.Point(0, 7);
    this.label1.Name = "label1";
    this.label1.Size = new System.Drawing.Size(25, 13);
    this.label1.TabIndex = 1;
    this.label1.Text = "Left";
    // 
    // label2
    // 
    this.label2.AutoSize = true;
    this.label2.Location = new System.Drawing.Point(63, 7);
    this.label2.Name = "label2";
    this.label2.Size = new System.Drawing.Size(26, 13);
```

```
this.label2.TabIndex = 3;
this.label2.Text = "Top";
//
// nmTop
//
this.nmTop.Location = new System.Drawing.Point(66, 23);
this.nmTop.Maximum = new decimal(new int[] {
10000,
0,
0,
0});
this.nmTop.Name = "nmTop";
this.nmTop.Size = new System.Drawing.Size(57, 20);
this.nmTop.TabIndex = 2;
this.nmTop.ValueChanged += new System.EventHandler(this.nmTop_ValueChanged);
//
// txtText
//
this.txtText.Location = new System.Drawing.Point(129, 23);
this.txtText.Name = "txtText";
this.txtText.Size = new System.Drawing.Size(309, 20);
this.txtText.TabIndex = 4;
this.txtText.Text = "Some overlay text";
//
// label3
//
this.label3.AutoSize = true;
this.label3.Location = new System.Drawing.Point(129, 7);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(28, 13);
this.label3.TabIndex = 5;
this.label3.Text = "Text";
//
// label4
//
this.label4.AutoSize = true;
this.label4.Location = new System.Drawing.Point(0, 49);
this.label4.Name = "label4";
this.label4.Size = new System.Drawing.Size(28, 13);
this.label4.TabIndex = 7;
this.label4.Text = "Font";
//
// txtFont
//
this.txtFont.Location = new System.Drawing.Point(3, 65);
this.txtFont.Name = "txtFont";
this.txtFont.Size = new System.Drawing.Size(86, 20);
this.txtFont.TabIndex = 6;
this.txtFont.Text = "Arial";
//
// btnFont
//
this.btnFont.Location = new System.Drawing.Point(95, 63);
this.btnFont.Name = "btnFont";
this.btnFont.Size = new System.Drawing.Size(28, 23);
this.btnFont.TabIndex = 8;
this.btnFont.Text = "...";
this.btnFont.UseVisualStyleBackColor = true;
this.btnFont.Click += new System.EventHandler(this.btnFont_Click);
//
```

```
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(126, 49);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(31, 13);
this.label5.TabIndex = 10;
this.label5.Text = "Color";
//
// pnlColor
//
this.pnlColor.BackColor = System.Drawing.Color.IndianRed;
this.pnlColor.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
this.pnlColor.Location = new System.Drawing.Point(129, 65);
this.pnlColor.Name = "pnlColor";
this.pnlColor.Size = new System.Drawing.Size(28, 20);
this.pnlColor.TabIndex = 11;
//
// btnColor
//
this.btnColor.Location = new System.Drawing.Point(163, 63);
this.btnColor.Name = "btnColor";
this.btnColor.Size = new System.Drawing.Size(28, 23);
this.btnColor.TabIndex = 12;
this.btnColor.Text = "...";
this.btnColor.UseVisualStyleBackColor = true;
this.btnColor.Click += new System.EventHandler(this.btnColor_Click);
//
// chkVisible
//
this.chkVisible.AutoSize = true;
this.chkVisible.Checked = true;
this.chkVisible.CheckState = System.Windows.Forms.CheckState.Checked;
this.chkVisible.Location = new System.Drawing.Point(4, 111);
this.chkVisible.Name = "chkVisible";
this.chkVisible.Size = new System.Drawing.Size(56, 17);
this.chkVisible.TabIndex = 13;
this.chkVisible.Text = "Visible";
this.chkVisible.UseVisualStyleBackColor = true;
this.chkVisible.CheckedChanged += new System.EventHandler(this.chkVisible_C
//
// btnUpdate
//
this.btnUpdate.Location = new System.Drawing.Point(444, 20);
this.btnUpdate.Name = "btnUpdate";
this.btnUpdate.Size = new System.Drawing.Size(75, 23);
this.btnUpdate.TabIndex = 14;
this.btnUpdate.Text = "Update";
this.btnUpdate.UseVisualStyleBackColor = true;
this.btnUpdate.Visible = false;
this.btnUpdate.Click += new System.EventHandler(this.btnUpdate_Click);
//
// btnBackColor
//
this.btnBackColor.Enabled = false;
this.btnBackColor.Location = new System.Drawing.Point(249, 63);
this.btnBackColor.Name = "btnBackColor";
this.btnBackColor.Size = new System.Drawing.Size(28, 23);
this.btnBackColor.TabIndex = 17;
this.btnBackColor.Text = "...";
```

```

>this.btnBackColor.UseVisualStyleBackColor = true;
this.btnBackColor.Click += new System.EventHandler(this.btnBackColor_Click);
//
// pnlBackColor
//
this.pnlBackColor.BackColor = System.Drawing.Color.IndianRed;
this.pnlBackColor.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
this.pnlBackColor.Enabled = false;
this.pnlBackColor.Location = new System.Drawing.Point(218, 65);
this.pnlBackColor.Name = "pnlBackColor";
this.pnlBackColor.Size = new System.Drawing.Size(28, 20);
this.pnlBackColor.TabIndex = 16;
//
// chkBackColor
//
this.chkBackColor.AutoSize = true;
this.chkBackColor.Location = new System.Drawing.Point(197, 48);
this.chkBackColor.Name = "chkBackColor";
this.chkBackColor.Size = new System.Drawing.Size(77, 17);
this.chkBackColor.TabIndex = 18;
this.chkBackColor.Text = "Back color";
this.chkBackColor.UseVisualStyleBackColor = true;
this.chkBackColor.CheckedChanged += new System.EventHandler(this.chkBackColor_CheckedChanged);
//
// ctrlTextOverlay
//
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.Controls.Add(this.chkBackColor);
this.Controls.Add(this.btnBackColor);
this.Controls.Add(this.pnlBackColor);
this.Controls.Add(this.btnUpdate);
this.Controls.Add(this.chkVisible);
this.Controls.Add(this.btnCancel);
this.Controls.Add(this.pnlColor);
this.Controls.Add(this.label5);
this.Controls.Add(this.btnFont);
this.Controls.Add(this.label4);
this.Controls.Add(this.txtFont);
this.Controls.Add(this.label3);
this.Controls.Add(this.txtText);
this.Controls.Add(this.label2);
this.Controls.Add(this.nmTop);
this.Controls.Add(this.label1);
this.Controls.Add(this.nmLeft);
this.Name = "ctrlTextOverlay";
this.Size = new System.Drawing.Size(525, 150);
((System.ComponentModel.ISupportInitialize)(this.nmLeft)).EndInit();
((System.ComponentModel.ISupportInitialize)(this.nmTop)).EndInit();
this.ResumeLayout(false);
this.PerformLayout();
}

#endregion

private System.Windows.Forms.NumericUpDown nmLeft;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.NumericUpDown nmTop;

```

```
    private System.Windows.Forms.TextBox txtText;
    private System.Windows.Forms.Label label3;
    private System.Windows.Forms.FontDialog fontDialog1;
    private System.Windows.Forms.Label label4;
    private System.Windows.Forms.TextBox txtFont;
    private System.Windows.Forms.Button btnFont;
    private System.Windows.Forms.Label label5;
    private System.Windows.Forms.Panel pnlColor;
    private System.Windows.Forms.Button btnColor;
    private System.Windows.Forms.CheckBox chkVisible;
    private System.Windows.Forms.Button btnUpdate;
    private System.Windows.Forms.Button btnBackColor;
    private System.Windows.Forms.Panel pnlBackColor;
    private System.Windows.Forms.CheckBox chkBackColor;
}
}
```

ctrlTextOverlay.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Drawing;
using System.Data;
using System.Text;
using System.Windows.Forms;
using BytescoutScreenCapturingLib;

namespace ScreenCapturingClient
{
    public partial class ctrlTextOverlay : UserControl
    {
        TextOverlay _textOverlay = null;
        ICapturer _capturer = null;
        int _index = -1;
        bool _isLoaded = false;

        public ctrlTextOverlay()
        {
            InitializeComponent();
            pnlBackColor.BackColor = Color.Transparent;
        }

        public ctrlTextOverlay(TextOverlay textOverlay, int index, ICapturer capturer)
        {
            InitializeComponent();

            _textOverlay = textOverlay;
            _index = index;
            _capturer = capturer;
        }
    }
}
```

```

nmLeft.Value = _textOverlay.Left;
nmTop.Value = _textOverlay.Top;
txtText.Text = _textOverlay.Text;
txtFont.Text = _textOverlay.Font.Name;
txtFont.Font = _textOverlay.Font;
pnlColor.BackColor = _textOverlay.Color;
chkVisible.Checked = _textOverlay.Visible;
btnUpdate.Visible = true;

chkBackColor.Checked = _textOverlay.BackColor != Color.Transparent;
btnBackColor.Enabled = _textOverlay.BackColor != Color.Transparent;
pnlBackColor.BackColor = _textOverlay.BackColor;

txtFont.Enabled = false;
btnFont.Enabled = false;
pnlColor.Enabled = false;
btnColor.Enabled = false;
chkBackColor.Enabled = false;
btnBackColor.Enabled = false;
pnlBackColor.Enabled = false;

_isLoaded = true;
}

private void btnFont_Click(object sender, EventArgs e)
{
    FontDialog dlg = new FontDialog();
    dlg.Font = txtFont.Font;
    if (dlg.ShowDialog() == DialogResult.OK)
    {
        txtFont.Font = dlg.Font;
        txtFont.Text = dlg.Font.Name;

        if (_textOverlay != null)
        {
            _textOverlay.Font = dlg.Font;
        }
    }
}

private void btnColor_Click(object sender, EventArgs e)
{
    ColorDialog dlg = new ColorDialog();
    dlg.AllowFullOpen = true;
    dlg.AnyColor = true;
    dlg.FullOpen = true;
    dlg.CustomColors = new int[] { Color.Transparent.ToArgb() };

    dlg.Color = pnlColor.BackColor;
    if (dlg.ShowDialog() == DialogResult.OK)
    {
        pnlColor.BackColor = dlg.Color;

        if (_textOverlay != null)
        {
            _textOverlay.Color = dlg.Color;
        }
    }
}

```

```

private void btnUpdate_Click(object sender, EventArgs e)
{
    if (_textOverlay != null && _capturer != null && _index != -1)
    {
        _capturer.UpdateTextOverlay(_index, txtText.Text);
        _textOverlay.Text = txtText.Text;
    }
}

private void nmLeft_ValueChanged(object sender, EventArgs e)
{
    if (_textOverlay != null && _capturer != null && _index != -1 && _isLoaded)
    {
        _capturer.UpdateOverlayPosition(_index, (int)nmLeft.Value, (int)nmTop.Value);
        _textOverlay.Left = (int)nmLeft.Value;
    }
}

private void nmTop_ValueChanged(object sender, EventArgs e)
{
    if (_textOverlay != null && _capturer != null && _index != -1 && _isLoaded)
    {
        _capturer.UpdateOverlayPosition(_index, (int)nmLeft.Value, (int)nmTop.Value);
        _textOverlay.Top = (int)nmTop.Value;
    }
}

private void chkVisible_CheckedChanged(object sender, EventArgs e)
{
    if (_textOverlay != null && _capturer != null && _index != -1 && _isLoaded)
    {
        _capturer.UpdateOverlayVisibility(_index, chkVisible.Checked);
        _textOverlay.Visible = chkVisible.Checked;
    }
}

public TextOverlay GetTextOverlay()
{
    if (_textOverlay == null)
    {
        _textOverlay = new TextOverlay();

        _textOverlay.Left = (int)nmLeft.Value;
        _textOverlay.Top = (int)nmTop.Value;
        _textOverlay.Text = txtText.Text;
        _textOverlay.Font = txtFont.Font;
        _textOverlay.Color = pnlColor.BackColor;
        _textOverlay.Visible = chkVisible.Checked;
        _textOverlay.BackColor = pnlBackColor.BackColor;
    }

    return _textOverlay;
}

private void chkBackColor_CheckedChanged(object sender, EventArgs e)
{
    btnBackColor.Enabled = chkBackColor.Checked;
    pnlBackColor.Enabled = chkBackColor.Checked;
    if (!chkBackColor.Checked)

```

```

        {
            pnlBackColor.BackColor = Color.Transparent;
        }
        if (_textOverlay != null)
        {
            _textOverlay.BackColor = pnlBackColor.BackColor;
        }
    }

private void btnBackColor_Click(object sender, EventArgs e)
{
    ColorDialog dlg = new ColorDialog();
    dlg.AllowFullOpen = true;
    dlg.AnyColor = true;
    dlg.FullOpen = true;

    dlg.Color = pnlBackColor.BackColor;
    if (dlg.ShowDialog() == DialogResult.OK)
    {
        pnlBackColor.BackColor = dlg.Color;

        if (_textOverlay != null)
        {
            _textOverlay.BackColor = dlg.Color;
        }
    }
}
}

```

frmNewOverlay.Designer.cs

```

namespace ScreenCapturingClient
{
    partial class frmNewOverlay
    {
        /// <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.panel1 = new System.Windows.Forms.Panel();
    this.btnOK = new System.Windows.Forms.Button();
    this.btnCancel = new System.Windows.Forms.Button();
    this.SuspendLayout();
    //
    // panel1
    //
    this.panel1.Location = new System.Drawing.Point(12, 12);
    this.panel1.Name = "panel1";
    this.panel1.Size = new System.Drawing.Size(495, 167);
    this.panel1.TabIndex = 0;
    //
    // btnOK
    //
    this.btnOK.DialogResult = System.Windows.Forms.DialogResult.OK;
    this.btnOK.Location = new System.Drawing.Point(351, 189);
    this.btnOK.Name = "btnOK";
    this.btnOK.Size = new System.Drawing.Size(75, 23);
    this.btnOK.TabIndex = 1;
    this.btnOK.Text = "OK";
    this.btnOK.UseVisualStyleBackColor = true;
    //
    // btnCancel
    //
    this.btnCancel.DialogResult = System.Windows.Forms.DialogResult.Cancel;
    this.btnCancel.Location = new System.Drawing.Point(432, 189);
    this.btnCancel.Name = "btnCancel";
    this.btnCancel.Size = new System.Drawing.Size(75, 23);
    this.btnCancel.TabIndex = 2;
    this.btnCancel.Text = "Cancel";
    this.btnCancel.UseVisualStyleBackColor = true;
    //
    // frmNewOverlay
    //
    this.AcceptButton = this.btnOK;
    this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
    this.CancelButton = this.btnCancel;
    this.ClientSize = new System.Drawing.Size(519, 224);
    this.Controls.Add(this.btnCancel);
    this.Controls.Add(this.btnOK);
    this.Controls.Add(this.panel1);
    this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.Fixed3D;
    this.MaximizeBox = false;
    this.Name = "frmNewOverlay";
    this.Text = "Add new overlay";
    this.ResumeLayout(false);

}

#endregion
```

```
        }

    #endregion

    private System.Windows.Forms.Panel panel1;
    private System.Windows.Forms.Button btnOK;
    private System.Windows.Forms.Button btnCancel;
}

}
```

frmNewOverlay.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

namespace ScreenCapturingClient
{
    public partial class frmNewOverlay : Form
    {
        public frmNewOverlay(bool textOverlay)
        {
            InitializeComponent();

            UserControl ctrl = null;

            if (textOverlay)
            {
                ctrl = new ctrlTextOverlay();
            }
            else
            {
                ctrl = new ctrlImageOverlay();
            }

            ctrl.Dock = DockStyle.Fill;
            panel1.Controls.Add(ctrl);
        }

        public Overlay GetOverlay()
        {
            if (panel1.Controls.Count > 0)
            {
                if (panel1.Controls[0] is ctrlTextOverlay)
                {
```

```
        return ((ctrlTextOverlay)panel1.Controls[0]).GetTextOverlay();
    }
    else if (panel1.Controls[0] is ctrlImageOverlay)
    {
        return ((ctrlImageOverlay)panel1.Controls[0]).GetImageOverlay();
    }
}

return null;
}
}
}
```

VIDEO

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

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