www.bytescout.com

How to use pdf layers with pdf sdk in C# using ByteScout Premium Suite

How to write a robust code in C# to use pdf layers with pdf sdk with this step-by-step tutorial

The sample shows instructions and algorithm of how to use pdf layers with pdf sdk and how to make it run in your C# application. ByteScout Premium Suite: the bundle that includes twelve SDK products from ByteScout including tools and components for PDF, barcodes, spreadsheets, screen video recording. It can use pdf layers with pdf sdk in C#.

Want to save time? You will save a lot of time on writing and testing code as you may just take the C# code from ByteScout Premium Suite for use pdf layers with pdf sdk below and use it in your application. Follow the instructions from scratch to work and copy the C# code. Applying C# application mostly includes various stages of the software development so even if the functionality works please test it with your data and the production environment.

You can download free trial version of ByteScout Premium Suite from our website with this and other source code samples for C#.

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Source Code Files:

Program.cs

```
using System.Diagnostics;
using System.Drawing;
using Bytescout.PDF;
using SolidBrush = Bytescout.PDF.SolidBrush;

namespace Layers
{
    /// <summary>
    /// This example demonstrates how to add layers with optional content.
    /// </summary>
    class Program
    {
        static void Main()
        {
            // Create new document
            Document pdfDocument = new Document();
            pdfDocument.RegistrationName = "demo";
            pdfDocument.RegistrationKey = "demo";
            // Add page
            Page page = new Page(PaperFormat.A4);
            pdfDocument.Pages.Add(page);

            Canvas canvas = page.Canvas;

            // Add main layer
            Layer allContents = new Layer("Main Layer");
            canvas.BeginMarkedContent(allContents);

            // Add sub-layer
            Layer layer1 = new Layer("Square");
            canvas.BeginMarkedContent(layer1);
            canvas.DrawRectangle(new SolidBrush(new ColorRGB(0, 255, 0)), 20, 20, 100,
            canvas.EndMarkedContent();

            // Add second sub-layer
            Layer layer2 = new Layer("Circle");
            canvas.BeginMarkedContent(layer2);
            canvas.DrawCircle(new SolidBrush(new ColorRGB(255, 0, 0)), 70, 180, 50);
            canvas.EndMarkedContent();

            // Add third sub-layer
            Layer layer3 = new Layer("Triangle");
            canvas.BeginMarkedContent(layer3);
            canvas.DrawPolygon(new SolidBrush(new ColorRGB(0, 0, 255)), new PointF[] {
            canvas.EndMarkedContent();

            canvas.EndMarkedContent();

            pdfDocument.OptionalContents.Layers.Add(layer1);
            pdfDocument.OptionalContents.Layers.Add(layer2);
            pdfDocument.OptionalContents.Layers.Add(layer3);
            pdfDocument.OptionalContents.Layers.Add(allContents);

            // Configure layers
```

```
            // Group sub-layers
            OptionalContentGroup group = new OptionalContentGroup();
            group.Add(new OptionalContentGroupLayer(layer1));
            group.Add(new OptionalContentGroupLayer(layer2));
            group.Add(new OptionalContentGroupLayer(layer3));

            // Order sub-layers
            pdfDocument.OptionalContents.Configuration.Order.Add(new OptionalContentGr
            pdfDocument.OptionalContents.Configuration.Order.Add(group);

            // Make the third layer invisible by default (for example)
            pdfDocument.OptionalContents.Configuration.OFF.Add(layer3);

            // Force the PDF viewer to show the layers panel initially
            pdfDocument.PageMode = PageMode.OptionalContent;

            // Save document to file
            pdfDocument.Save("result.pdf");

            // Cleanup
            pdfDocument.Dispose();

            // Open result document in default associated application (for demo purpos
            ProcessStartInfo processStartInfo = new ProcessStartInfo("result.pdf");
            processStartInfo.UseShellExecute = true;
            Process.Start(processStartInfo);
        }
    }
}
```

VIDEO

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

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