

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

This code in C# shows how to use pdf layers with pdf sdk with this how to tutorial

The sample source codes on this page shows how to use pdf layers with pdf sdk in C#. ByteScout PDF Suite is the set that includes 6 SDK products to work with PDF from generating rich PDF reports to extracting data from PDF documents and converting them to HTML. This bundle includes PDF (Generator) SDK, PDF Renderer SDK, PDF Extractor SDK, PDF to HTML SDK, PDF Viewer SDK and PDF Generator SDK for Javascript. It can be applied to use pdf layers with pdf sdk using C#.

This prolific sample source code in C# for ByteScout PDF Suite contains various functions and other necessary options you should do calling the API to use pdf layers with pdf 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! 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.

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

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Source Code Files:

```
using System.Diagnostics;
using System.Drawing;
using Bytestcout.PDF;
using SolidBrush = Bytestcout.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 OptionalContentGroup(group));
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 purposes)
ProcessStartInfo processStartInfo = new ProcessStartInfo("result.pdf");
processStartInfo.UseShellExecute = true;
Process.Start(processStartInfo);
}
}
}
```

VIDEO

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

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