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# How to convert PDF to PNG in C# with ByteScout PDF Renderer SDK

## Write code in C# to convert PDF to PNG with this step-by-step tutorial

On this page you will learn from code samples for programming in C#.Writing of the code to convert PDF to PNG in C# can be done by developers of any level using ByteScout PDF Renderer SDK. ByteScout PDF Renderer SDK: the component (SDK) that renders PDF into high quality images and thumbnails. Includes various functions like page by page processing, BMP, PNG, TIFF or stream output. Can be used from web and desktop applications. It can convert PDF to PNG in C#.

You will save a lot of time on writing and testing code as you may just take the C# code from ByteScout PDF Renderer SDK for convert PDF to PNG below and use it in your application. Follow the instructions from the scratch to work and copy the C# code. Detailed tutorials and documentation are available along with installed ByteScout PDF Renderer SDK if you'd like to dive deeper into the topic and the details of the API.

Our website provides trial version of ByteScout PDF Renderer SDK for free. It also includes documentation and source code samples.



# Source Code Files:

Program.cs

```
using System;
using System.Collections.Generic;
using System.Diagnostics;
using Bytescout.PDFRenderer;


namespace PDF2ImageWithCustomSize
{
    class Program
    {
        static void Main(string[] args)
        {
            // Specify Image Generation Inputs
            ImageGenerationInputs imageGenerationInputs = new ImageGenerationInputs();

            imageGenerationInputs.AddCustomSize(width: 320, height: 420);
            imageGenerationInputs.AddCustomSize(width: 600, height: 800);

            imageGenerationInputs.EnableSaveAsPng = true;
            imageGenerationInputs.EnableSaveAsJpeg = true;
            imageGenerationInputs.EnableSaveAsTiff = true;

            // Create an instance of Bytescout.PDFRenderer.RasterRenderer object and re
            RasterRenderer renderer = new RasterRenderer();
            renderer.RegistrationName = "demo";
            renderer.RegistrationKey = "demo";

            // Load PDF document
            renderer.LoadDocumentFromFile("multipage.pdf");

            // Specify Rendering Options to fine tune output generation
            RenderingOptions renderingOptions = new RenderingOptions();
            renderingOptions.TIFFCompression = TIFFCompression.None;
            renderingOptions.VectorSmoothingMode = GraphicsTransformationQuality.HighQu

            // Loop through each custom size specified
            foreach (var itmCustomSize in imageGenerationInputs.CustomSizes)
            {
                // Loop through all pages
                for (int pageIndex = 0; pageIndex < renderer.GetPageCount(); pageIndex-
                {
                    // Perform save as PNG, if specified
                    if (imageGenerationInputs.EnableSaveAsPng)
                    {
                        var pngImageName = {code}quot;output_{itmCustomSize.Key}x{itmCu

                        // Save png image per page, per custom size
                        renderer.Save(
                            destFileName: pngImageName,
                            outputFormat: RasterImageFormat.PNG,
                            pageIndex: pageIndex,
                            width: itmCustomSize.Key,
                            height: itmCustomSize.Value,
                            renderingOptions: renderingOptions
                            );
```

```
                    Console.WriteLine(pngImageName + " - Generated");
                }

                // Perform save as JPG, if specified
                if (imageGenerationInputs.EnableSaveAsJpeg)
                {
                    var jpgImageName = {code}quot;output_{itmCustomSize.Key}x{itmCu

                    // Save jpg image per page, per custom size
                    renderer.Save(
                        destFileName: jpgImageName,
                        outputFormat: RasterImageFormat.JPEG,
                        pageIndex: pageIndex,
                        width: itmCustomSize.Key,
                        height: itmCustomSize.Value,
                        renderingOptions: renderingOptions
                        );

                    Console.WriteLine(jpgImageName + " - Generated");
                }
            }

            // Perform save as TIFF, if specified
            if (imageGenerationInputs.EnableSaveAsTiff)
            {
                var tiffImageName = {code}quot;output_{itmCustomSize.Key}x{itmCusto

                // Save tiff image per page, per custom size
                renderer.SaveMultipageTiff(
                    destFileName: tiffImageName,
                    startPageIndex: 0,
                    endPageIndex: renderer.GetPageCount() - 1,
                    width: itmCustomSize.Key,
                    height: itmCustomSize.Value,
                    renderingOptions: renderingOptions);

                Console.WriteLine(tiffImageName + " - Generated");
            }
        }

        // Cleanup
        renderer.Dispose();

        Console.ReadLine();
    }
}

class ImageGenerationInputs
{
    #region Constructor

    public ImageGenerationInputs()
    {
        CustomSizes = new List<KeyValuePair<int, int>>();
        EnableSaveAsPng = true;
    }

    #endregion
```

```
        #region Properties

        public List<KeyValuePair<int, int>> CustomSizes { get; set; }

        public bool EnableSaveAsPng { get; set; }

        public bool EnableSaveAsJpeg { get; set; }

        public bool EnableSaveAsTiff { get; set; }

        #endregion

        #region Methods

        public void AddCustomSize(int width, int height)
        {
            this.CustomSizes.Add(new KeyValuePair<int, int>(width, height));
        }

        #endregion
    }

}
```

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VIDEO

https://www.youtube.com/watch?v=eenhl7106lA

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