

barcode image preprocessing filters with barcode reader sdk in VB.NET using ByteScout Barcode Suite

Simple tutorial on how to do barcode image preprocessing filters with barcode reader sdk in VB.NET

ByteScout tutorials describe the stuff for programmers who use VB.NET. Barcode image preprocessing filters with barcode reader sdk in VB.NET can be applied with ByteScout Barcode Suite. ByteScout Barcode Suite is the bundle that provides 3 SDK products to generate barcodes (Barcode SDK), read barcodes (Barcode Reader SDK) and read and write spreadsheets (Spreadsheet SDK).

VB.NET code snippet like this for ByteScout Barcode Suite works best when you need to quickly implement barcode image preprocessing filters with barcode reader sdk in your VB.NET application. Just copy and paste this VB.NET sample code to your VB.NET application's code editor, add a reference to ByteScout Barcode Suite (if you haven't added yet) and you are ready to go! Use of ByteScout Barcode Suite in VB.NET is also described in the documentation included along with the product.

Our website gives free trial version of ByteScout Barcode Suite. It includes all these source code samples with the purpose to assist you with your VB.NET application implementation.

FOR MORE INFORMATION AND FREE TRIAL:

[Download Free Trial SDK \(on-premise version\)](#)

[Read more about ByteScout Barcode Suite](#)

[Explore API Documentation](#)

[Get Free Training for ByteScout Barcode Suite](#)

[Get Free API key for Web API](#)

[visit www.ByteScout.com](http://www.ByteScout.com)

Source Code Files:

```
Imports Bytescout.BarCodeReader
```

```
Module Module1
```

```
''' <summary>
```

```
''' This exmaple demonstrates the use of image filters to improve the decoding or s
```

```
''' </summary>
```

```
Sub Main()
```

```
    Using reader As New Reader("demo", "demo")
```

```
        ' Set barcode type to find
```

```
        reader.BarcodeTypesToFind.Code128 = True
```

```
        ' WORKING WITH LOW CONTRAST BARCODE IMAGES
```

```
        ' Add the contrast adjustment for the low contrast image
```

```
        reader.ImagePreprocessingFilters.AddContrast(40)
```

```
        Console.WriteLine("Image {0}", "low-contrast-barcode.png")
```

```
        ' -----
        ' NOTE: We can read barcodes from specific page to increase performance .
        ' For sample please refer to "Decoding barcodes from PDF by pages" program
        ' -----
```

```
        Dim barcodes As FoundBarcode() = reader.ReadFrom("low-contrast-barcode.png")
```

```
        If barcodes.Length = 0 Then
```

```
            Console.WriteLine("No barcode found!")
```

```
        Else
```

```
            For Each barcode As FoundBarcode In barcodes
```

```
                Console.WriteLine("Found barcode {0} with value '{1}'", barcode.Type
```

```
            Next
```

```
        End If
```

```
        reader.ImagePreprocessingFilters.Clear()
```

```
        Console.WriteLine()
```

```
        ' WORKING WITH NOISY BARCODE IMAGES
```

```
        ' Add the median filter to lower the noise
```

```
        reader.ImagePreprocessingFilters.AddMedian()
```

```
        Console.WriteLine("Image {0}", "noisy-barcode.png")
```

```
        barcodes = reader.ReadFrom("noisy-barcode.png")
```

```
        If barcodes.Length = 0 Then
```

```
            Console.WriteLine("No barcode found!")
```

```
        Else
```

```
            For Each barcode As FoundBarcode In barcodes
```

```
                Console.WriteLine("Found barcode {0} with value '{1}'", barcode.Type
```

```
            Next
```

```
End If
```

```
reader.ImagePreprocessingFilters.Clear()  
Console.WriteLine()
```

```
' WORKING WITH DENSE AND ILLEGIBLE BARCODES
```

```
' Add the scale filter to enlarge the barcode to make gaps between bars more  
reader.ImagePreprocessingFilters.AddScale(2) ' enlarge twice
```

```
Console.WriteLine("Image {0}", "too-dense-barcode.png")
```

```
barcodes = reader.ReadFrom("too-dense-barcode.png")
```

```
If barcodes.Length = 0 Then
```

```
    Console.WriteLine("No barcode found!")
```

```
Else
```

```
    For Each barcode As FoundBarcode In barcodes
```

```
        Console.WriteLine("Found barcode {0} with value '{1}'", barcode.Type, barcode.Value)
```

```
    Next
```

```
End If
```

```
reader.ImagePreprocessingFilters.Clear()  
Console.WriteLine()
```

```
' REMOVE EMPTY MARGINS FROM IMAGE TO SPEED UP THE PROCESSING
```

```
' Add the crop filter to cut off empty margins from the image.
```

```
' This will not improve the recognition quality but may speed up the process.
```

```
' if you enabled multiple barcode types to search.
```

```
reader.ImagePreprocessingFilters.AddCropDark()
```

```
Console.WriteLine("Image {0}", "barcode-with-large-margins.png")
```

```
barcodes = reader.ReadFrom("barcode-with-large-margins.png")
```

```
If barcodes.Length = 0 Then
```

```
    Console.WriteLine("No barcode found!")
```

```
Else
```

```
    For Each barcode As FoundBarcode In barcodes
```

```
        Console.WriteLine("Found barcode {0} with value '{1}'", barcode.Type, barcode.Value)
```

```
    Next
```

```
End If
```

```
reader.ImagePreprocessingFilters.Clear()  
Console.WriteLine()
```

```
End Using
```

```
Console.WriteLine("Press any key to exit..")
```

```
Console.ReadKey()
```

```
End Sub
```

```
End Module
```

VIDEO

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

ON-PREMISE OFFLINE SDK

[60 Day Free Trial](#) or [Visit ByteScout Barcode Suite Home Page](#)
[Explore ByteScout Barcode Suite Documentation](#)
[Explore Samples](#)
[Sign Up for ByteScout Barcode Suite Online Training](#)

ON-DEMAND REST WEB API

[Get Your API Key](#)
[Explore Web API Docs](#)
[Explore Web API Samples](#)

[visit www.ByteScout.com](http://www.ByteScout.com)

[visit www.PDF.co](http://www.PDF.co)

www.bytescout.com