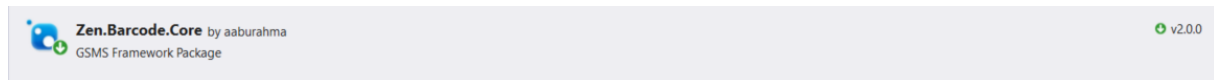


QR-code generator

Preparation

NuGet Package

First of all, install the next NuGet Package with the NuGet Manager:



Or

With the Package Manager Console:

```
"Install-Package Zen.Barcode.Core"
```

Import in the file

Use a using to use the package

```
Using Zen.Barcode;
```

Resize of the image

An Image object does not give the ability to adjust the height/width, therefore it needs to be converted to a Bitmap and cast back to an image after resizing. I found this method online.

```
QrCode = ResizeImage(QrCode, new Size(maxWidth, maxWidth));

private static Image ResizeImage(Image imgToResize, Size size)
{
    //Get the image current width
    int sourceWidth = imgToResize.Width;
    //Get the image current height
    int sourceHeight = imgToResize.Height;
    float nPercent = 0;
    float nPercentW = 0;
    float nPercentH = 0;
    //Calculate width with new desired size
    nPercentW = ((float)size.Width / (float)sourceWidth);
    //Calculate height with new desired size
    nPercentH = ((float)size.Height / (float)sourceHeight);
    if (nPercentH < nPercentW)
        nPercent = nPercentH;
    else
        nPercent = nPercentW;
    //New Width
    int destWidth = (int)(sourceWidth * nPercent);
    //New Height
    int destHeight = (int)(sourceHeight * nPercent);
    Bitmap b = new Bitmap(destWidth, destHeight);
    Graphics g = Graphics.FromImage((System.Drawing.Image)b);
    g.InterpolationMode = InterpolationMode.HighQualityBicubic;
    // Draw image with new width and height
    g.DrawImage(imgToResize, 0, 0, destWidth, destHeight);
    g.Dispose();
    return b;
}
```

QR creation

Standard QR

```
Image QrCode = BarcodeDrawFactory.CodeQr.Draw("URLTEKST", 50);
```

The 50 is the maxBarHeight, the example doesn't explain exactly what this does and changing the value doesn't change much. Example does suggest filling in 50 here.

Saving the QRcode

SaveDialog

You can also work with a savedialog (windows forms control), add it to your form first.

(Control appears at the bottom of the editor and must be used in the code)

The object Image has a .Save() method

```
saveFileDialog1.Filter = "PNG Files (*.png)|*.png|JPG Files (*.jpg)|*.jpg|JPEG Files (*.jpeg)|*.jpeg";

saveFileDialog1.AddExtension = true;
saveFileDialog1.FileName = "";

if (saveFileDialog1.ShowDialog() == DialogResult.OK)
{
    QrCode.Save(saveFileDialog1.FileName);
}
```

Filter: The filter the extension that will be chosen.

The pattern works as follows:

“Name option 1 | *.extentiontype 1 | Name option 2 | *.extentiontype 2”

If you enter *.* as the extension type, all the files will be displayed and the file will not have an extension.

AddExtension: With this property you can choose if you want the extension to be automatically added to the fileName.

FileName: The name (and therefore also the location) of the file. make this empty again, otherwise the whole file location will appear as a name when you want to save the QR again.

Clipboard

Once the QR has been generated it can be copied immediately.

```
Clipboard.SetImage(QrCode);
```