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# Java: Simple QR Code Generator Example – Now you Could have Narrow Border



By: App Shah Last Updated: Jul 17, 2017

Java & J2EE

45 comments

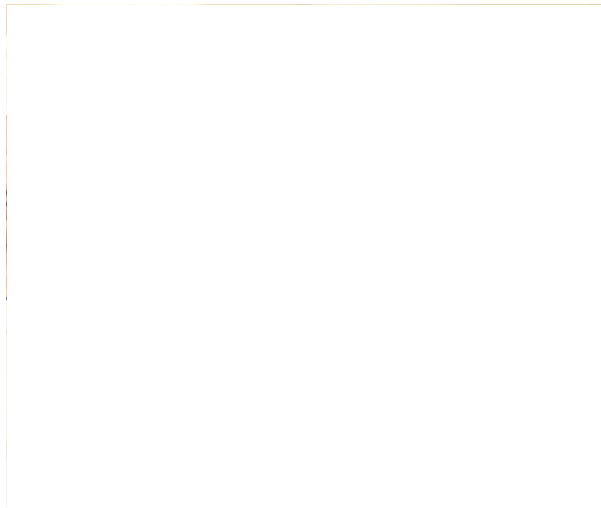


Scan this: You will be redirected to <https://crunchify.com>

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attached to items that record information related to the item. Initially patented, its patent holder has chosen not to exercise those rights. Recently, the QR Code system has become popular outside the automotive industry due to its fast readability and greater **storage** capacity compared to standard UPC barcodes.

The **code** consists of black modules (square dots) arranged in a square grid on a white background. `ZXING` is a Multi-format 1D/2D barcode **image processing** library with clients for Android, Java. It is an **open-source**, multi-format 1D/2D barcode image processing library implemented in Java, with ports to other languages.



Our focus is on using the built-in camera on **mobile** phones to scan and decode barcodes on the device, without communicating with a server. However the project can be used to encode and decode barcodes on desktops and servers as well. Here is a simple **Java** Code which generates QR code for you.

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```
import java.awt.image.BufferedImage;
import java.io.File;
import java.io.IOException;
import java.util.EnumMap;
import java.util.Map;

import javax.imageio.ImageIO;

import com.google.zxing.BarcodeFormat;
import com.google.zxing.EncodeHintType;
import com.google.zxing.WriterException;
import com.google.zxing.common.BitMatrix;
import com.google.zxing.qrcode.QRCodeWriter;
import com.google.zxing.qrcode.decoder.ErrorCorrectionLevel;

/**
 * @author Crunchify.com
 * Updated: 03/20/2016 - added code to narrow border size
 */

public class CrunchifyQRCode {

    // Tutorial: http://zxing.github.io/zxing/apidocs/index.html

    public static void main(String[] args) {
        String myCodeText = "https://crunchify.com/";
        String filePath = "/Users/appshah/Documents/CrunchifyQR.png";
        int size = 250;
        String fileType = "png";
        File myFile = new File(filePath);
        try {

            Map<EncodeHintType, Object> hintMap = new EnumMap<EncodeHintType, Object>(EncodeHintType.class);
            hintMap.put(EncodeHintType.CHARACTER_SET, "UTF-8");

            // Now with zxing version 3.2.1 you could change border size
            hintMap.put(EncodeHintType.MARGIN, 1); /* default = 4 */
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

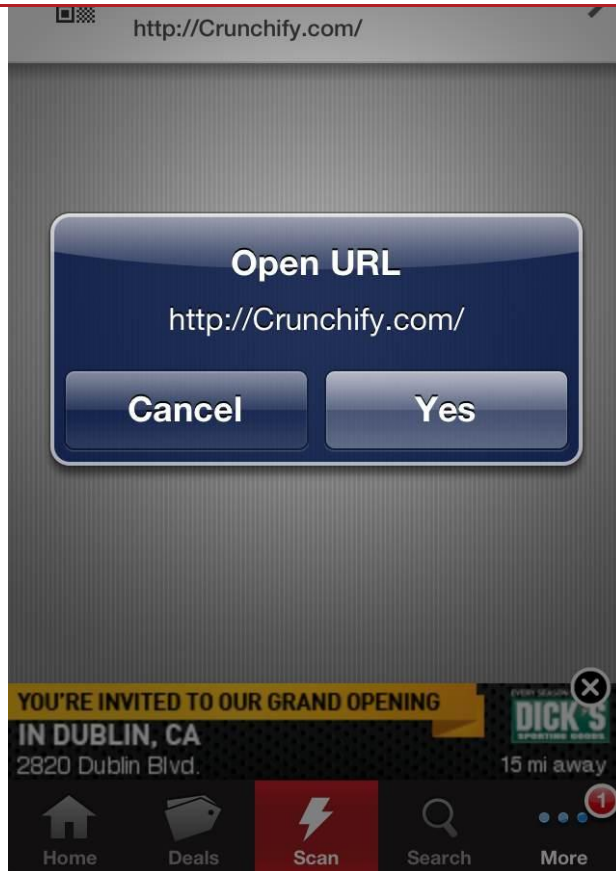
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```
int CrunchifyWidth = byteMatrix.getWidth();
BufferedImage image = new BufferedImage(CrunchifyWidth, Cru
    BufferedImage.TYPE_INT_RGB);
image.createGraphics();

Graphics2D graphics = (Graphics2D) image.getGraphics();
graphics.setColor(Color.WHITE);
graphics.fillRect(0, 0, CrunchifyWidth, CrunchifyWidth);
graphics.setColor(Color.BLACK);

for (int i = 0; i < CrunchifyWidth; i++) {
    for (int j = 0; j < CrunchifyWidth; j++) {
        if (byteMatrix.get(i, j)) {
            graphics.fillRect(i, j, 1, 1);
        }
    }
}
ImageIO.write(image, fileType, myFile);
} catch (WriterException e) {
    e.printStackTrace();
} catch (IOException e) {
    e.printStackTrace();
}
System.out.println("\n\nYou have successfully created QR Code."
}
}
```

## Output: (Scan it by yourself)

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## Which library do I have to download?

If you have **Maven project** then include this dependency.

```
zxing maven dependency
<dependency>
  <groupId>com.google.zxing</groupId>
  <artifactId>core</artifactId>
  <version>3.2.1</version>
</dependency>
```

## OR Download .jar file manually

### Step-1:

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<b>Date</b>	(Aug 19, 2015) <a href="#">Download link</a>

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```

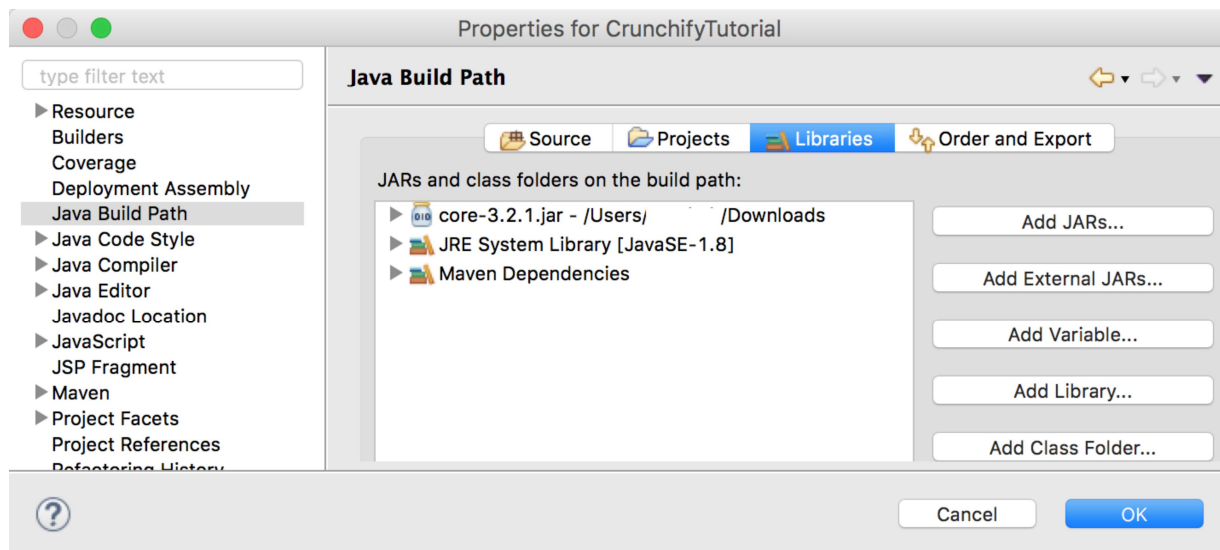
<dependency>
  <groupId>com.google.zxing</groupId>
  <artifactId>core</artifactId>
  <version>3.2.1</version>
</dependency>

```

Simple QR Code Generator Example [crunchify.com](#)

## Step-2

Once you download it you have to include it into your project's classpath.  
How to add .jar file to Project Build Path in Eclipse.



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## Comments



**Salman Farish Says**

Feb 4, 2017 at 8:05 am

Hi i am in need of qr code generator for java 1.5. Zxing is supported for 1.7/1.6.  
Can you please suggest any workaround ?

[↓ Reply](#)



**App Shah Says**

Feb 12, 2017 at 11:31 am



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Nov 4, 2016 at 12:14 am

How to generate QR code with geo location in it?

[↓ Reply](#)**App Shah Says**

Nov 16, 2016 at 10:35 am

Hi Nikku – ZXing Core doesn't provide QR code with geo tagging. There are few online tools available but not sure how to do it in Java. I'll explore this option in the future and will update.

[↓ Reply](#)**Dendi Nuryana Says**

Aug 23, 2016 at 1:52 am

im sorry , mine is still error , can you tell me where im i wrong ?

[↓ Reply](#)**App Shah Says**

Aug 25, 2016 at 7:53 am

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Aug 19, 2016 at 9:11 am

hi this is a really nice example , but can you leave me a direct link to download the library , because on that link i can't found where to click download , ty

[↓ Reply](#)**App Shah Says**

Aug 25, 2016 at 7:27 am

Hi Dendi – Please click on Download [JAR] link. PFA screenshot.

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