Universidad del Valle de Guatemala
Programación de Plataformas Móviles
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# Laboratorio #5

- Documentación del API:

Se debe añadir la siguiente implementación en el gradle del proyecto:

```
dependencies {
    implementation 'com.github.kenglxn.QRGen:android:3.0.1'
}
```

Método de uso:

```
public class Demo {
    public static void main(String[] args) {
        // get QR file from text using defaults
        File file = QRCode.from("Hello World").file();

        // get QR stream from text using defaults
        ByteArrayOutputStream stream = QRCode.from("Hello World").stream();

        // override the image type to be JPG
        QRCode.from("Hello World").to(ImageType.JPG).file();
        QRCode.from("Hello World").to(ImageType.JPG).stream();

        // override image size to be 250x250
        QRCode.from("Hello World").withSize(250, 250).file();
        QRCode.from("Hello World").withSize(250, 250).stream();
```

```
// override size and image type
QRCode.from("Hello World").to(ImageType.GIF).withSize(250, 250).file();
QRCode.from("Hello World").to(ImageType.GIF).withSize(250, 250).stream();

// override default colors (black on white)
// notice that the color format is "0x(alpha: 1 byte)(RGB: 3 bytes)"
// so in the example below it's red for foreground and yellowish for background, both 100% alpha (FF).
QRCode.from("Hello World").withColor(0xFFFF0000, 0xFFFFFFAA).file();

// supply own outputstream
QRCode.from("Hello World").to(ImageType.PNG).writeTo(new ByteArrayOutputStream());

// supply own file name
QRCode.from("Hello World").file("QRCode");

// supply charset hint to ZXING
QRCode.from("Hello World").withCharset("UTF-8");

// supply error correction level hint to ZXING
QRCode.from("Hello World").withErrorCorrection(ErrorCorrectionLevel.L);

// supply any hint to ZXING
QRCode.from("Hello World").withHint(EncodeHintType.CHARACTER_SET, "UTF-8");

// encode contact data as vcard using defaults
VCard johnDoe = new VCard("John Doe")
```

```
        .setEmail("john.doe@example.org")
        .setAddress("John Doe Street 1, 5678 Doestown")
        .setTitle("Mister")
        .setCompany("John Doe Inc.")
        .setPhoneNumber("1234")
        .setWebsite("www.example.org");
QRCode.from(johnDoe).file();

// encode email data
EMail email = new EMail("John.Doe@example.org");
QRCode.from(email).file();

// encode mms data
MMS mms = new MMS("8675309", "Hello Jenny");
QRCode.from(mms).file();

// encode sms data
SMS sms = new SMS("8675309", "Hello Jenny");
QRCode.from(sms).file();

// encode MeCard data
MeCard janeDoe = new MeCard("Jane Doe");
janeDoe.setEmail("john.doe@example.org");
janeDoe.setAddress("John Doe Street 1, 5678 Doestown");
janeDoe.setTelephone("1234");
QRCode.from(janeDoe).file();

// if using special characters don't forget to supply the encoding
```

```
        VCard johnSpecial = new VCard("Jöhn Dee")
                .setAddress("ëåäöŋ Sträät 1, 1234 Döestüwn");
        QRCode.from(johnSpecial).withCharset("UTF-8").file();
    }
}
```

Uso para Android:

```
Bitmap myBitmap = QRCode.from("www.example.org").bitmap();
ImageView myImage = (ImageView) findViewById(R.id.imageView);
myImage.setImageBitmap(myBitmap);
```

- Link al GitHub del API: https://github.com/kenglxn/QRGen.git

- Link del repositorio: https://github.com/Jose-Prince/PPM2023-JAPM.git