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Contents

1.1 google-authenticator-libpam 1.09
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1.3 hidapi 0.8.0-rc1

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1.4 qr-code-generator master-20180320

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/*
* QR Code generator demo (Rust)
*
* Run this command-line program with no arguments. The program computes a bunch of demonstration
* QR Codes and prints them to the console. Also, the SVG code for one QR Code is printed as a sample.
*
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/rust/examples/qrcodegen-demo.rs
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```
/*
 * QR Code generator test suite (C)
 *
 * When compiling this program, the library qrcodegen.c needs QRCODEGEN_TEST
 * to be defined. Run this command line program with no arguments.
 *
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 */
```

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen-test.c
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QR Code generator library
=========================

Introduction

This project aims to be the best, clearest QR Code generator library. The primary goals are flexible options and absolute correctness. Secondary goals are compact implementation size and good documentation comments.

Home page with live JavaScript demo, extensive descriptions, and competitor comparisons:

https://www.nayuki.io/page/qr-code-generator-library

Features

Core features:

* Available in 6 programming languages, all with nearly equal functionality: Java, JavaScript, Python, C++, C, Rust
* Significantly shorter code but more documentation comments compared to competing libraries
* Supports encoding all 40 versions (sizes) and all 4 error correction levels, as per the QR Code Model 2 standard
* Output formats: Raw modules/pixels of the QR symbol, SVG XML string
* Encodes numeric and special-alphanumeric text in less space than general text
* Open source code under the permissive MIT License

Manual parameters:

* User can specify minimum and maximum version numbers allowed, then library will automatically choose smallest version in the range that fits the data
* User can specify mask pattern manually, otherwise library will automatically evaluate all 8 masks and select the optimal one
* User can specify absolute error correction level, or allow the library to boost it if it doesn't increase the version number
* User can create a list of data segments manually and add ECI segments

Examples

```
extern crate qrcodegen;
use qrcodegen::QrCode;
use qrcodegen::QrCodeEcc;
use qrcodegen::QrSegment;

// Simple operation
let qr0 = QrCode::encode_text("Hello, world!",
    QrCodeEcc::Medium).unwrap();
let svg = qr0.to_svg_string(4);

// Manual operation
let chrs: Vec<char> = "3141592653589793238462643383".chars().collect();
let segs = QrSegment::make_segments(&chrs);
let qr1 = QrCode::encode_segments_advanced(
    &segs, QrCodeEcc::High, 5, 5, Some(2), false).unwrap();
for y in 0 .. qr1.size() {
    for x in 0 .. qr1.size() {
        (... paint qr1.get_module(x, y) ...)
    }
```

```
    }
```

More complete set of examples: https://github.com/nayuki/QR-Code-generator/blob/master/rust/examples/qrcodegen-demo.rs .

Found in path(s):
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/rust/Readme.markdown
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```
/*
 * QR Code generator test worker (Java)
 *
 * This program reads data and encoding parameters from standard input and writes
 * QR Code bitmaps to standard output. The I/O format is one integer per line.
 * Run with no command line arguments. The program is intended for automated
 * batch testing of end-to-end functionality of this QR Code generator library.
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```
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 * QR Code generator library (Rust)
 *
```

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```

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/javascript/qrcodegen-demo.js

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```
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 *
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/javascript/qrcodegen-js-demo.html

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```
/*
 * QR Code generator test worker (Rust)
 *
 * This program reads data and encoding parameters from standard input and writes
 * QR Code bitmaps to standard output. The I/O format is one integer per line.
 * Run with no command line arguments. The program is intended for automated
 * batch testing of end-to-end functionality of this QR Code generator library.
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/rust/examples/qrcodegen-worker.rs
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```
/*
 * QR Code generator test worker (C++)
 *
 * This program reads data and encoding parameters from standard input and writes
 * QR Code bitmaps to standard output. The I/O format is one integer per line.
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrCodeGeneratorWorker.cpp
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```
/*
* QR Code generator demo (C)
*
* Run this command-line program with no arguments. The program
* computes a demonstration QR Codes and print it to the console.
*
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```

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 *
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```

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen.c
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen.h
No license file was found, but licenses were detected in source scan.

```
/*
 * QR Code generator demo (Java)
 *
 * Run this command-line program with no arguments. The program creates/overwrites a bunch of
 * PNG and SVG files in the current working directory to demonstrate the creation of QR Codes.
 *
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QrCodeGeneratorDemo.java
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/*
* QR Code generator test worker (C)
*
* This program reads data and encoding parameters from standard input and writes
* QR Code bitmaps to standard output. The I/O format is one integer per line.
* Run with no command line arguments. The program is intended for automated
* batch testing of end-to-end functionality of this QR Code generator library.
*
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```
*/
```

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen-worker.c
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```
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 *
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 */
```

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QrSegment.java
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/BitBuffer.java
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QrCode.java
No license file was found, but licenses were detected in source scan.

```
/*
 * QR Code generator demo (C++)
 *
 * Run this command-line program with no arguments. The program computes a bunch of demonstration
 * QR Codes and prints them to the console. Also, the SVG code for one QR Code is printed as a sample.
```

Found in path(s):
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrCodeGeneratorDemo.cpp
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QR Code generator library
=========================

Introduction

This project aims to be the best, clearest QR Code generator library in multiple languages. The primary goals are flexible options and absolute correctness. Secondary goals are compact implementation size and good documentation comments.

Home page with live JavaScript demo, extensive descriptions, and competitor comparisons:
https://www.nayuki.io/page/qr-code-generator-library

Features

Core features:

* Available in 6 programming languages, all with nearly equal functionality: Java, JavaScript, Python, C++, C, Rust

* Significantly shorter code but more documentation comments compared to competing libraries
* Supports encoding all 40 versions (sizes) and all 4 error correction levels, as per the QR Code Model 2 standard
* Output formats: Raw modules/pixels of the QR symbol (all languages), SVG XML string (all languages except C), `BufferedImage` raster bitmap (Java only), HTML5 canvas (JavaScript only)
* Encodes numeric and special-alphanumeric text in less space than general text
* Open source code under the permissive MIT License

Manual parameters:

* User can specify minimum and maximum version numbers allowed, then library will automatically choose smallest version in the range that fits the data
* User can specify mask pattern manually, otherwise library will automatically evaluate all 8 masks and select the optimal one
* User can specify absolute error correction level, or allow the library to boost it if it doesn't increase the version number
* User can create a list of data segments manually and add ECI segments (all languages except C)

Optional advanced features (Java only):

* Encodes Japanese Unicode text in kanji mode to save a lot of space compared to UTF-8 bytes
* Computes optimal segment mode switching for text with mixed numeric/alphanumeric/general parts

More information about QR Code technology and this library's design can be found on the project home page.

Examples

Java language:

```
import java.awt.image.BufferedImage;
import java.io.File;
import javax.imageio.ImageIO;
import io.nayuki.qrcodegen.*;

// Simple operation
QrCode qr0 = QrCode.encodeText("Hello, world!", QrCode.Ecc.MEDIUM);
BufferedImage img = qr0.toImage(4, 10);
ImageIO.write(img, "png", new File("qr-code.png"));

// Manual operation
List<QrSegment> segs = QrSegment.makeSegments("3141592653589793238462643383");
QrCode qr1 = QrCode.encodeSegments(segs, QrCode.Ecc.HIGH, 5, 5, 2, false);
for (int y = 0; y < qr1.size; y++) {
    for (int x = 0; x < qr1.size; x++) {
        (... paint qr1.getModule(x, y) ...)
    }
}
```

JavaScript language:

```javascript
// Name abbreviated for the sake of these examples here
var QRC = qrcodegen.QrCode;

// Simple operation
var qr0 = QRC.encodeText("Hello, world!", QRC.Ecc.MEDIUM);
var svg = qr0.toSvgString(4);

// Manual operation
var segs = qrcodegen.QrSegment.makeSegments("3141592653589793238462643383");
var qr1 = QRC.encodeSegments(segs, QRC.Ecc.HIGH, 5, 5, 2, false);
for (var y = 0; y < qr1.size; y++) {
    for (var x = 0; x < qr1.size; x++) {
        (... paint qr1.getModule(x, y) ...)
    }
}
```

Python language:

```python
from qrcodegen import *

# Simple operation
qr0 = QrCode.encode_text("Hello, world!", QrCode.Ecc.MEDIUM)
svg = qr0.to_svg_str(4)

# Manual operation
segs = QrSegment.make_segments("3141592653589793238462643383")
qr1 = QrCode.encode_segments(segs, QrCode.Ecc.HIGH, 5, 5, 2, False)
for y in range(qr1.get_size()):
    for x in range(qr1.get_size()):
        (... paint qr1.get_module(x, y) ...)
```

C++ language:

```cpp
#include <string>
#include <vector>
#include "QrCode.hpp"
using namespace qrcodegen;

// Simple operation
QrCode qr0 = QrCode::encodeText("Hello, world!", QrCode::Ecc::MEDIUM);
std::string svg = qr0.toSvgString(4);

// Manual operation
std::vector<QrSegment> segs =
    QrSegment::makeSegments("3141592653589793238462643383");
```

```
QrCode qr1 = QrCode::encodeSegments(
    segs, QrCode::Ecc::HIGH, 5, 5, 2, false);
for (int y = 0; y < qr1.getSize(); y++) {
    for (int x = 0; x < qr1.getSize(); x++) {
        (... paint qr1.getModule(x, y) ...)
    }
}
```

C language:

```c
#include <stdbool.h>
#include <stdint.h>
#include "qrcodegen.h"

// Text data
uint8_t qr0[qrcodegen_BUFFER_LEN_MAX];
uint8_t tempBuffer[qrcodegen_BUFFER_LEN_MAX];
bool ok = qrcodegen_encodeText("Hello, world!",
    tempBuffer, qr0, qrcodegen_Ecc_MEDIUM,
    qrcodegen_VERSION_MIN, qrcodegen_VERSION_MAX,
    qrcodegen_Mask_AUTO, true);
if (!ok)
    return;

int size = qrcodegen_getSize(qr0);
for (int y = 0; y < size; y++) {
    for (int x = 0; x < size; x++) {
        (... paint qrcodegen_getModule(qr0, x, y) ...)
    }
}

// Binary data
uint8_t dataAndTemp[qrcodegen_BUFFER_LEN_FOR_VERSION(7)]
    = {0xE3, 0x81, 0x82};
uint8_t qr1[qrcodegen_BUFFER_LEN_FOR_VERSION(7)];
ok = qrcodegen_encodeBinary(dataAndTemp, 3, qr1,
    qrcodegen_Ecc_HIGH, 2, 7, qrcodegen_Mask_4, false);
```

Rust language:

```rust
extern crate qrcodegen;
use qrcodegen::QrCode;
use qrcodegen::QrCodeEcc;
use qrcodegen::QrSegment;

// Simple operation
let qr0 = QrCode::encode_text("Hello, world!",
    QrCodeEcc::Medium).unwrap();
```

```
    let svg = qr0.to_svg_string(4);

    // Manual operation
    let chrs: Vec<char> = "314159265358979323846263383".chars().collect();
    let segs = QrSegment::make_segments(&chrs);
    let qr1 = QrCode::encode_segments_advanced(
        &segs, QrCodeEcc::High, 5, 5, Some(2), false).unwrap();
    for y in 0 .. qr1.size() {
        for x in 0 .. qr1.size() {
            (... paint qr1.get_module(x, y) ...)
        }
    }
```

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* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/qrcodegen-batch-test.py
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/qrcodegen-worker.py
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/setup.py
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/qrcodegen.py
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```
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```

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/javascript/qrcodegen.js
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```

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrSegment.cpp

* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrSegment.hpp

1.5 libfido2 0.3.0

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