

Package ‘qrencoder’

May 9, 2026

Title Quick Response Code (QR Code) / Matrix Barcode Creator

Version 0.1.0

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Description Quick Response codes (QR codes) are a type of matrix bar code and can be used to authenticate transactions, provide access to multi-factor authentication services and enable general data transfer in an image. QR codes use four standardized encoding modes (numeric, alphanumeric, byte/binary, and kanji) to efficiently store data. Matrix barcode generation is performed efficiently in C via the included 'libqrencoder' library created by Kentaro Fukuchi.

Depends R (>= 3.1.0), raster

License GPL-2

LazyData true

Suggests testthat

LinkingTo Rcpp

Imports Rcpp, base64enc, png

URL <http://github.com/hrbrmstr/qrencoder>

BugReports <https://github.com/hrbrmstr/qrencoder/issues>

RoxygenNote 5.0.1

NeedsCompilation yes

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Repository CRAN

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qrencode	<i>Return a QR encoded string as a matrix</i>
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Description

Useful if you want to do your own post-processing

Usage

```
qrencode(to_encode)
```

Arguments

to_encode the data to encode

Examples

```
qrencode("http://rud.is/b")
```

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Description

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Author(s)

Bob Rudis (bob@rud.is)

qrcode_df	<i>Return a QR encoded string as an x, y, z data.frame</i>
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Description

Useful for ggplot::geom_raster

Usage

```
qrcode_df(to_encode)
```

Arguments

to_encode the data to encode

Examples

```
head(qrcode_df("http://rud.is/b"))
```

qrcode_png	<i>Return a QR encoded string as a base 64 encoded inline png</i>
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Description

Return a QR encoded string as a base 64 encoded inline png

Usage

```
qrcode_png(to_encode)
```

Arguments

to_encode the data to encode

Note

data:image/png;base64, is prepended to the encoded png

Examples

```
cat(qrcode_png("http://rud.is/b"))
```

qrcode_raster	<i>Return a QR encoded string as a raster object</i>
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Description

Return a QR encoded string as a raster object

Usage

```
qrcode_raster(to_encode)
```

Arguments

to_encode	the data to encode
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Examples

```
library(raster)
old_mar <- par()$mar
par(mar=c(0,0,0,0))
image(qrcode_raster("http://rud.is/b"), asp=1, col=c("white", "black"),
      axes=FALSE, xlab="", ylab="")
par(mar=old_mar)
```

qrcode_raw	<i>Encodes a string as a QR code</i>
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Description

Encodes a string as a QR coder

Usage

```
qrcode_raw(to_encode, version = 0L, level = 0L, hint = 2L,
           caseinsensitive = 1L)
```

Arguments

to_encode	character string to encode
version	version of the symbol. If 0, the library chooses the minimum version for the given input data.
level	error correction level (0 - 3, lowest to highest)

hint tell the library how Japanese Kanji characters should be encoded. If "3", the library assumes that the given string contains Shift-JIS characters and encodes them in Kanji-mode. If "2" is given, all of non-alphanumerical characters will be encoded as is. If you want to embed UTF-8 string, choose this. Other mode will cause EINVAL error.

"0" is "numeric mode", "1" is "alphanumeric mode", "5" is "ECI mode".

caseinsensitive case-sensitive(1) or not(0).

See Also

<http://www.qrcode.com/en/about/version.html>

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