Package 'qrcode'

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Type Package

Title Generate QRcodes with R

Version 0.2.0

Description Create QRcode in R.

License GPL-3

URL https://thierryo.github.io/qrcode/,
https://github.com/ThierryO/qrcode,
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BugReports https://github.com/ThierryO/qrcode/issues

Depends R (>= 3.0.0)

Imports assertthat, knitr, stats, utils

Suggests httr, testthat (>= 3.0.0)

Config/checklist/keywords two-dimensional barcode; matrix barcode

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Language en-GB

RoxygenNote 7.2.2

NeedsCompilation no

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Repository CRAN

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R topics documented:

`as.character.bits` *Convert a bits object into a character string*

Description

Convert a bits object into a character string

Usage

```
## S3 method for class 'bits'
as.character(x, ...)
```

Arguments

`x`	the bits object
`...`	currently ignore

Author(s)

Thierry Onkelinx

See Also

Other bits: `bits2int()`, `bits()`, `c.bits()`, `print.bits()`

Examples

```
z <- bits(c(FALSE, TRUE, TRUE, FALSE))
z
as.character(z)
```

bits *Create a bits object*

Description

Converts a logical vector into a bits object. This remains a logical vector. The main difference is that is printed as a `0` and `1` bit string rather than a `FALSE` and `TRUE` vector

Usage

```
bits(x)
```

Arguments

`x`	a logical vector

Author(s)

Thierry Onkelinx

See Also

Other bits: `as.character.bits()`, `bits2int()`, `c.bits()`, `print.bits()`

Examples

```
z <- bits(c(FALSE, TRUE))
z
str(z)
```

bits2int *Convert a bits object to an integer and vice versa*

Description

Convert a bits object to an integer and vice versa

Usage

```
bits2int(x)

int2bits(i, n_bit = 16)
```

Arguments

x	the bits object
i	the integer
n_bit	the number of bits

Author(s)

Thierry Onkelinx

See Also

Other bits: as.character.bits(), bits(), c.bits(), print.bits()

Examples

```
z <- bits(c(FALSE, TRUE, TRUE, FALSE))
z
y <- bits2int(z)
y
int2bits(y)
int2bits(y, 4)
```

---

c.bits *Combine bits*

Description

The result inherits arguments from the first element.

Usage

```
## S3 method for class 'bits'
c(...)
```

Arguments

...	the bits to concatenate

Author(s)

Thierry Onkelinx

See Also

Other bits: as.character.bits(), bits2int(), bits(), print.bits()

Examples

```
z <- bits(c(FALSE, TRUE))
z
c(z, z, rev(z))
```

DataStringBinary *Defunct legacy functions*

Description

Defunct legacy functions

Usage

```
DataStringBinary(...)

ECgenerator(...)

formatPolyGen(...)

polynomialGenerator(...)

qrFillUpMatrix(...)

qrInitMatrix(...)

qrInterleave(...)

qrMask(...)

qrVersionInfo(...)

qrcode_gen(...)

versionPolyGen(...)
```

Arguments

...	obsolete arguments

Author(s)

Victor Teh

generate_svg *Generate the QR code as an svg file*

Description

Create the QR code using `qr_code()` and save it as an svg file.

Usage

```
generate_svg(
  qrcode,
  filename,
  size = 300,
  foreground = "black",
  background = "white",
  show = interactive(),
  ...
)

## Default S3 method:
generate_svg(
  qrcode,
  filename,
  size = 300,
  foreground = "black",
  background = "white",
  show = interactive(),
  ...
)

## S3 method for class 'qr_code'
generate_svg(
  qrcode,
  filename,
  size = 300,
  foreground = "black",
  background = "white",
  show = interactive(),
  ...
)

## S3 method for class 'qr_wifi'
generate_svg(
  qrcode,
  filename,
  size = 300,
  foreground = "black",
```

```
  background = "white",
  show = interactive(),
  ...,
  fontsize = 15
)
```

Arguments

qrcode	a qr_code object as generated by qr_code.
filename	Where to store the QR code as svg file. Silently overwrites existing files. Tries to create the path, when it doesn't exist.
size	width of the svg file in pixels. Defaults to 300.
foreground	Stroke and fill colour for the foreground. Use a valid CSS colour. Defaults to "black".
background	Fill colour for the background. Use a valid CSS colour. Defaults to "white".
show	Open the file after creating it. Defaults to TRUE on interactive() sessions, otherwise FALSE.
...	Currently ignored.
fontsize	The size of the font in pixels.

Value

invisible NULL

Author(s)

Thierry Onkelinx

See Also

Other qr: plot.qr_code(), print.qr_code(), qr_code(), qr_event(), qr_wifi()

Examples

```
code <- qr_code("HELLO WORLD")
generate_svg(
  qrcode = code, filename = tempfile(fileext = ".svg"), show = FALSE
)
```

plot.qr_code *Plot the QR code*

Description

Plot the QR code

Usage

```
## S3 method for class 'qr_code'
plot(x, col = c("white", "black"), y, ...)
```

Arguments

x	the qr_code object
col	Define the colours. The first element refers to FALSE and the second TRUE. Defaults to c("white", "black").
y	currently ignored
...	currently ignored

Author(s)

Thierry Onkelinx

See Also

Other qr: generate_svg(), print.qr_code(), qr_code(), qr_event(), qr_wifi()

Examples

```
qr <- qr_code("HELLO WORLD")
plot(qr)
```

print.bits *Print a bits vector Display the logical vector as a bit string where* FALSE *is shown as* 0 *and* TRUE *as* 1.

Description

Print a bits vector Display the logical vector as a bit string where FALSE is shown as 0 and TRUE as 1.

Usage

```
## S3 method for class 'bits'
print(x, ...)
```

Arguments

x	the object to print
...	currently ignored

Author(s)

Thierry Onkelinx

See Also

Other bits: as.character.bits(), bits2int(), bits(), c.bits()

Examples

```
z <- bits(c(FALSE, TRUE))
print(z)
```

---

print.qr_code *Print the qr_code object*

Description

Please use plot(x) for a better quality image

Usage

```
## S3 method for class 'qr_code'
print(x, ...)
```

Arguments

x	the qr_code object
...	currently ignored

Author(s)

Thierry Onkelinx

See Also

Other qr: generate_svg(), plot.qr_code(), qr_code(), qr_event(), qr_wifi()

Examples

```
qr_code("HELLO WORLD")
```

qr_code *Generate the QR code*

Description

A QR code is a two-dimensional barcode developed by the Denso Wave company.

Usage

```
qr_code(x, ecl = c("L", "M", "Q", "H"))
```

Arguments

x	the input string
ecl	the required error correction level. Available options are "L" (7%), "M" (15%), "Q" (25%) and "H" (30%). Defaults to "L".

Value

The QR code as a logical matrix with "qr_code" class.

Author(s)

Thierry Onkelinx

See Also

Other qr: generate_svg(), plot.qr_code(), print.qr_code(), qr_event(), qr_wifi()

Examples

```
qr_code("https://www.r-project.org")
qr <- qr_code("https://cran.r-project.org/package=qrcode", ecl = "M")
qr
plot(qr)
# the qr_code object is a logical matrix
str(qr)
qr[1:10, 1:10]
```

qr_event *Generate a QR code for an event*

Description

Generate a QR code for an event

Usage

```
qr_event(start, end, title, ..., ecl = c("L", "M", "Q", "H"))
```

Arguments

start	the required start time as POSIXct.
end	the required end time as POSIXct.
title	the required title of the event.
...	optional arguments as defined in the details.
ecl	the required error correction level. Available options are "L" (7%), "M" (15%), "Q" (25%) and "H" (30%). Defaults to "L".

Details

Optional arguments. Other arguments are silently ignored.

- description
- location
- organiser
- url

See Also

Other qr: generate_svg(), plot.qr_code(), print.qr_code(), qr_code(), qr_wifi()

qr_logo *Generate QR code with a logo on top*

Description

Will create an svg file with the QR code and logo.

Usage

```
qr_logo(
  x,
  logo,
  filename,
  size = 300,
  foreground = "black",
  background = "white",
  show = interactive()
)
```

Arguments

x	the input string
logo	the path to a logo image file
filename	Where to store the QR code as svg file. Silently overwrites existing files. Tries to create the path, when it doesn't exist.
size	width of the svg file in pixels. Defaults to 300.
foreground	Stroke and fill colour for the foreground. Use a valid CSS colour. Defaults to "black".
background	Fill colour for the background. Use a valid CSS colour. Defaults to "white".
show	Open the file after creating it. Defaults to TRUE on interactive() sessions, otherwise FALSE.

---

qr_wifi *Generate QR code with wifi login information*

Description

Generate QR code with wifi login information

Usage

```
qr_wifi(
  ssid,
  encryption = c("WPA", "WEP", ""),
  key = "",
  hidden = FALSE,
  ecl = c("L", "M", "Q", "H")
)
```

Arguments

ssid	The SSID of the network.
encryption	The encryption standard. Options are "WPA", "WEP" and "". The latter implies no encryption. Defaults to "WPA".
key	The key for the encryption.
hidden	Use FALSE for a visible SSID. Use TRUE for a hidden SSID. Defaults to FALSE.
ecl	the required error correction level. Available options are "L" (7%), "M" (15%), "Q" (25%) and "H" (30%). Defaults to "L".

See Also

Other qr: generate_svg(), plot.qr_code(), print.qr_code(), qr_code(), qr_event()

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