

v0.0.0 MIT

Generate all sorts of codes in Typst.

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https://github.com/jneug/typst-codetastic

Part I.

Codes

```
#ean13() #ean5() #qrcode()
#ean13-encode() #ean8() #upc-a()
```

```
#ean13-encode(i, number, odd: none)
```

Encode a digit into seven bits according to the EAN-13 standard. Each digit is encoded into seven bits via one of three encoding tables, determined by i and odd.

```
#ean5(code, scale: 1, colors: "(white, black)")
Create an EAN-5 barcode.
```

```
1 #codetastic.ean5(12345)
```

The code can be given as a five digit number in integer or string format, or as an array with five integer digits.

The size of the barcode can be scaled down to 80% and up to 200%. The height of the bars can be trimmed down to 50%.

```
1 #codetastic.ean5(
2 scale:(1.8, .5), "90000")
```

EAN-5 codes are usually added to ean-13 codes as add-ons:

See https://www.softmatic.com/barcode-ean-13.html#ean-add-on for more information about EAN-5 codes.

```
code integer string array
```

A five digit number as integer or string, or an array with five integers.

```
Scale: 1

Scale of the code between 0.8 and 2.
```

```
Argument colors: "(white, black)" array

An array with exactly two colors: background and foreground.
```

```
#ean8(code, scale: 1, colors: "(white, black)", lmi: "false")
Create an EAN-8 barcode.
```

```
1 #codetastic.ean8(2903370)
```

The code can be given as a seven or eight digit number in integer or string format, or as an array with seven or eight integer digits. Codes with seven digits will have the checksum value appended to the code, while for eight digit codes the given checksum is validated.

The size of the barcode can be scaled down to 80% and up to 200%. The height of the bars can be trimmed down to 50%.

```
1 #codetastic.ean8(
2 scale:(1.8, .5), "29033706")
2 9 0 3 3 7 0 6
```

See https://www.softmatic.com/barcode-ean-8.html for more information about EAN-8 codes.

```
code integer | string | array

Either a seven or eight digit number as integer or string, or an array with seven or eight integers.
```

```
scale: 1

Scale of the code between 0.8 and 2.
```

```
Argument colors: "(white, black)"

An array with exactly two colors: background and foreground.
```

#ean13(code, scale: 1, colors: "(white, black)", lmi: "false")
Create an EAN-13 barcode.

```
1 #codetastic.ean13(240701400194)
2 407014 001944
```

The code can be given as a 12 or 13 digit number in integer or string format, or as an array with 12 or 13 integer digits. Codes with 12 digits will have the checksum value appended to the code, while for 13 digit codes the given checksum is validated.

The size of the barcode can be scaled down to 80% and up to 200%. The height of the bars can be trimmed down to 50%.

```
1 #codetastic.ean13(
2 scale:(1.8, .5), "2407014001944")
2 4 0 7 0 1 4 0 0 1 9 4 4
```

See https://www.softmatic.com/barcode-ean-13.html for more information about EAN-13 codes.

```
code integer | string | array

Either a 12 or eight 13 number as integer or string, or an array with 12 or 13 integers.
```

```
scale: 1

Scale of the code between 0.8 and 2.
```

```
colors: "(white, black)"

An array with exactly two colors: background and foreground.
```

```
Argument

lmi: "false"

boolean

If true, a light margin indicator will be shown.
```

```
1 #codetastic.ean13(lmi:true,
9781234567897)
```



#upc-a(code, scale: 1, colors: "(white, black)", lmi: "false")
 Create an UPC-A barcode.

```
1 #codetastic.upc-a("03600029145")
```

The code can be given as a 11 or 12 digit number in integer or string format, or as an array with 11 or 12 integer digits. Codes with 11 digits will have the checksum value appended to the code, while for 12 digit codes the given checksum is validated.

The size of the barcode can be scaled down to 80% and up to 200%. The height of the bars can be trimmed down to 50%.

```
1 #codetastic.upc-a(
2 scale:(1.8, .5), "03600029145")

0 3 6 0 0 0 2 9 1 4 5 2
```

See https://www.softmatic.com/barcode-upc-a.html for more information about UPC-A codes.

```
code integer | string | array

Either a 11 or eight 12 number as integer or string, or an array with 11 or 12 integers.
```

```
Scale of the code between 0.8 and 2.
```

```
Argument—
colors: "(white, black)"

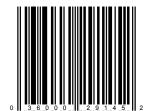
An array with exactly two colors: background and foreground.
```

```
Argument

lmi: "false"

boolean

If true, a light margin indicator will be shown.
```



```
#qrcode(
   data,
   quiet-zone: 4,
   min-version: 1,
   ecl: ""l"",
   mask: auto,
   size: auto,
   width: auto,
   colors: "(white, black)"
)
```

Draws a QR-Code encoding the data.

#codetastic.qrcode("https://qrcode.com/en")



Some caveats:



- Calculating error correction bits is quit slow and unoptimized. The generation of larger codes can take quit some time.
- Even for smaller codes, the generation is not very fast. Avoid documents with lots of qr-codes.
- Kanji and ECI encodings are not yet supported. MAybe they will be in the future.
- UTF-8 is not supported.

Argument

data

string

The data to encode.

quiet-zone: 4

integer

Whitespace around the code in number of modules. The qr-code standard suggests a quiet zone of at least four modules.

min-version: 1

integer

Minimum version for the code. A number between 1 and 40. If data is to large for the minimum code verison, the next larger verison that fits the data is selected.

ecl: ""l""

string

Error correction level. One of "l", "m", "q" or "h".

mask: auto

auto integer

Forces a mask to apply to the code. Number between (0 and 7). For auto the best mask is selected according to the qr-code standard.

size: auto

auto length

Size of a modules square.

width: auto

auto length

If set to a length, the module size will be adjusted to create a qr-code with the given width. Will overwrite any setting for size.

colors: "(white, black)"

array

An array with exactly two colors: background and foreground.