

Labeling and tracking samples with *baRcodeR* (v 0.1.2)

CHEAT SHEET



III Quick Start III

Make sequential identifier codes with custom string:

```
1 labels  
2 example005  
3 example006  
4 example007  
5 example008  
6 example009  
7 example010
```

```
IDcodes <- uniqID_maker(string = "example",  
                           level = 5:10,  
                           digits = 3)
```

Prefix

Make hierarchical IDs:

```
1 labels  
2 a1-b1-c1  
3 a1-b1-c2  
4 a1-b2-c1  
5 a1-b2-c2  
6 a2-b1-c1  
7 a2-b1-c2  
8 a2-b2-c1  
9 a2-b2-c2  
10 a3-b1-c1  
11 a3-b1-c2  
12 a3-b2-c1  
13 a3-b2-c2
```

Prefix
for
level

Start
Number

End
Number

```
level_one <- c("a", 1, 3)  
level_two <- c("b", 1, 2)  
level_three <- c("c", 1, 2)  
hier_list <- list(level_one, level_two,  
                   level_three)  
  
IDcodes <- uniqID_hier_maker(hierarchy =  
                                hier_list, digits=1)
```

Make PDF with QR barcodes from IDcodes:

```
IDcodes<-uniqID_maker(string="example", digits=1, level=1:2)  
create_PDF(Labels=IDcodes, name="example_pdf")
```



example1



example2

Make PDF with linear barcodes from IDcodes:

```
create_PDF(Labels=IDcodes, type="linear", Fsz=12)
```



example1



example2

II User Interaction II

All functions can be run interactively by specifying user=T

uniqID_maker(user=T)

Prompts will guide user through options in the console.

Alternatively, access the add-in and create codes and labels from the 'Addins' menu in RStudio

III Options III

uniqID_maker():

user: run in interactive mode (T/F)

string: prefix for ID codes, ("ABC", "Pop1", "1")

level: sequence for ID codes (1:3, c(1,3,5:8), 100:0)

digits: number of digits (string1, string01, string001 ...)

uniqID_hier_maker():

user: run in interactive mode (T/F)

hierarchy: list of levels containing c("string", start, end)

end: string to append as suffix (string01-01-suffix)

digits: number of digits (string1, string01, string001 ...)

create_pdf():

user: run in interactive mode (T/F)

Labels: vector or data frame of ID codes

name: name of output PDF file

type: type of label, "matrix" or "linear"

ErrCorr: error correction level; one of L, M, Q, and H

Fsz: font size, between 2.2 and 4.7

III III baRcodeR I II III – Advanced PDF Output Options

Advanced options in `create_PDF()` allow customized layouts.

Printing Options

Across: Print across rows (T), or print down columns (F)

Erows: Which row to start printing on

Ecols: Which column to start printing on

trunc: Break long ID codes into multiple lines (T/F)

`height_margin`

`Erows = 2 and Ecols = 1
starts printing from this spot
on the page`

`label_width`



`https://github.com/
yihanwu/baRcodeR`

`y_space`

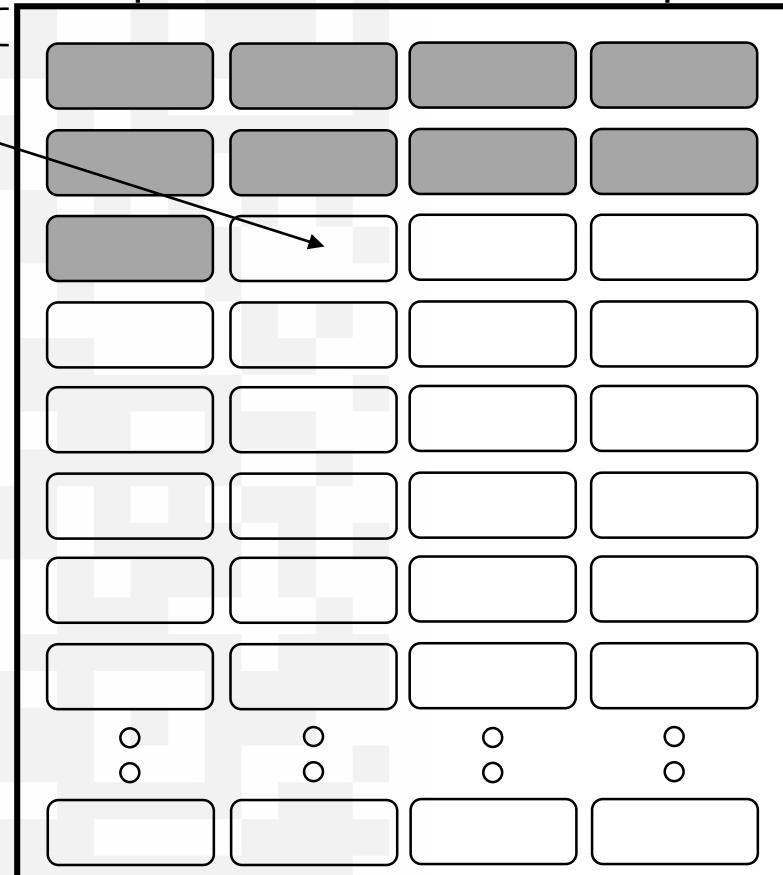
`x_space`

`Truncation of longer codes
is enabled by default`

`label_height`

Default layout is for 1.75" x ½" WEATHER RESISTANT
LABEL for 8.5" x 11" laser printer (80 labels/sheet).
Item # S-19297 (uline.ca or uline.com)

`numcol (4)`



`width_margin`

Page Layout Options

numrow: number of rows on page (default 20)

numcol: number of columns on page (default 4)

height_margin: space added above and below labels

width_margin: space added to left and right of labels

label_width: width of label (in inches)

label_height: height of label (in inches)

x_space: value between 0 and 1, distance between qrcode and text

y_space: value between 0 and 1, vertical height of text on label, default 0.5

IMPORTANT: When printing from PDF, use the option “actual size” rather than “fit to page” and do not use “image aliasing” or “save ink” options.