Package **CompSign**

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```r
## knitr preferences
## no chache
```

```r
## install latest version
library(devtools)
devtools::install_github("lm687/CompSign")

## Downloading GitHub repo lm687/CompSign@master
## from URL https://api.github.com/repos/lm687/CompSign/zipball/master
## Installing CompSign
## '/Library/Frameworks/R.framework/Resources/bin/R' --no-site-file
\
##   --no-environ --no-save --no-restore --quiet CMD INSTALL   \
##   '/private/var/folders/22/nzk7280n61jd5qrjhqm5cwph0000gn/T/RtmpceWJPx/devtools11ad37713d3
\
##   --library='/Library/Frameworks/R.framework/Versions/3.4/Resources/library'
\
##   --install-tests
##

library(CompSign)
```

```r
#########################
####### Dummy data #######
#########################

### Example of matrix transformed into sign object
input_dummy <- matrix(runif(100), 4)
colnames(input_dummy) <- paste0('s', 1:25); rownames(input_dummy) <- paste0('sam', 1:4)
sign_dummy <- to_sign(input_dummy)
```

1 Summarise the signature matrix

```
add_together_matrix(sign_dummy)

## An object of class "sign"
## Slot "id":
## [1] "input_dummy"
##
## Slot "id_samples":
## [1] "sam1" "sam2" "sam3" "sam4"
##
## Slot "id_signatures":
##  [1] "s1"  "s2"  "s3"  "s4"  "s5"  "s6"  "s7"  "s8"  "s9"  "s10" "s11"
## [12] "s12" "s13" "s14" "s15" "s16" "s17" "s18" "s19" "s20" "s21" "s22"
## [23] "s23" "s24" "s25"
##
## Slot "count_matrix":
##              s1         s2         s3        s4        s5        s6
## sam1 0.04494607 0.9459326 0.88127565 0.3946659 0.9847367 0.5334726
## sam2 0.85108295 0.1652019 0.41478690 0.3770054 0.9848871 0.8588562
## sam3 0.16437774 0.1669872 0.21936464 0.8102820 0.4609778 0.7109929
## sam4 0.09260736 0.4681254 0.04536973 0.3224658 0.1482561 0.2590526
##              s7         s8        s9        s10       s11       s12
## sam1 0.7796631 0.11324627 0.4737555 0.3660501 0.2542280 0.2927717
## sam2 0.3743002 0.42067263 0.1832577 0.4582543 0.1223438 0.2661635
## sam3 0.2568477 0.07727454 0.6250180 0.8761233 0.1428893 0.4881740
## sam4 0.4979492 0.17051955 0.2249406 0.9196784 0.4623768 0.1407447
##             s13        s14       s15       s16       s17        s18
## sam1 0.7688104 0.5593506 0.5991378 0.2567221 0.3007133 0.64456791
## sam2 0.3116331 0.4513631 0.9762848 0.9834179 0.1796476 0.91491317
## sam3 0.5135778 0.2974684 0.4756830 0.8267806 0.2941601 0.94181612
## sam4 0.6126832 0.8479827 0.5370032 0.9067558 0.3266194 0.08701186
##              s19        s20       s21        s22       s23        s24
## sam1 0.26302844 0.41389117 0.9079563 0.08464190 0.4967340 0.81036391
## sam2 0.78164722 0.86066560 0.7922283 0.39374352 0.8150022 0.64902957
## sam3 0.02185266 0.60821777 0.5645052 0.01485438 0.2569835 0.38201556
## sam4 0.31598495 0.08136767 0.8527674 0.51505592 0.1944197 0.08814193
##             s25
## sam1 0.4166038
## sam2 0.7021759
## sam3 0.4446548
## sam4 0.9006695
##
## Slot "modified":
## [1] TRUE
```

```r
summarise(add_together_matrix(sign_dummy))
```

```
## NULL
```