Package **CompSign**

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

```
## 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/Rtmp4558S9/devtools12d81cfaee
\
##  --library='/Library/Frameworks/R.framework/Versions/3.4/Resources/library'
\
##  --install-tests
##

library(CompSign)
```

```
############################
####### 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        s7
## sam1 0.4063053 0.2591602 0.1174974 0.8616734 0.3528768 0.1313416 0.7759778
## sam2 0.3171174 0.1073037 0.7567067 0.7687749 0.5489022 0.5542063 0.9277082
## sam3 0.6469283 0.9809537 0.6360816 0.8040796 0.4351444 0.6769004 0.8934323
## sam4 0.7565930 0.8214952 0.4261783 0.9536456 0.9461464 0.6351386 0.6698433
##              s8         s9        s10       s11       s12       s13
## sam1 0.57825303 0.04182919 0.71762837 0.6727800 0.5288287 0.4728147
## sam2 0.03739589 0.83010589 0.01041624 0.7012658 0.9250818 0.9037323
## sam3 0.56373200 0.84412901 0.98430139 0.3046982 0.7576636 0.7797488
## sam4 0.72123541 0.52612049 0.37158181 0.7811009 0.7532607 0.2449843
##            s14       s15       s16        s17       s18       s19
## sam1 0.7384150 0.3786730 0.5592717 0.59973802 0.9919366 0.3888815
## sam2 0.2767728 0.2904386 0.4977215 0.03273770 0.2598922 0.3854670
## sam3 0.7880875 0.1389167 0.8920042 0.24531591 0.3712953 0.1151802
## sam4 0.9334142 0.4352205 0.5752102 0.03712467 0.9001685 0.7494569
##            s20       s21       s22        s23       s24       s25
## sam1 0.2980968 0.2663176 0.3084290 0.07706298 0.7012818 0.2856389
## sam2 0.0745378 0.8076416 0.7216981 0.21208815 0.8615556 0.9440728
## sam3 0.6275661 0.6418525 0.3910651 0.22106836 0.3764019 0.8989401
## sam4 0.4463098 0.1245161 0.9042309 0.96400322 0.3641485 0.5382770
##
## Slot "modified":
## [1] TRUE
```

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

```
## Error in switch(robust, pearson = {:  EXPR must be a length 1 vector
```