

Package **CompSign**

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October 2017

```
## 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/nzk7280n61jd5qrjhm5cwph0000gn/T/RtmpbeQpqd/devtools13d5bbee470'
\
## --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
## sam1 0.9692533 0.19443849 0.3288059 0.3280140 0.09592467 0.7115427
## sam2 0.7837342 0.92392179 0.2168483 0.7127971 0.66949549 0.2111823
## sam3 0.4012835 0.32939140 0.1843643 0.9383211 0.61222317 0.1789161
## sam4 0.8704505 0.03548048 0.8001550 0.8001629 0.11188295 0.4496374
##           s7          s8          s9          s10         s11         s12
## sam1 0.5542157 0.1216512 0.15581788 0.6429287 0.2132475 0.06939524
## sam2 0.3929719 0.8396875 0.25872103 0.5134583 0.3928628 0.02297047
## sam3 0.8189261 0.2628008 0.67266604 0.9406943 0.2141898 0.14013061
## sam4 0.8394207 0.6520488 0.08376948 0.5007285 0.3076691 0.94850162
##           s13         s14         s15         s16         s17         s18
## sam1 0.4937574 0.4374765 0.2827663 0.4513858 0.1684220 0.001818169
## sam2 0.6179105 0.3071579 0.1781552 0.8950814 0.4668978 0.285492535
## sam3 0.7530851 0.2703790 0.3161722 0.6285799 0.2999300 0.907005913
## sam4 0.3052232 0.3846171 0.1465795 0.9888307 0.3475624 0.856270291
##           s19         s20         s21         s22         s23         s24
## sam1 0.6822406 0.6306082 0.6441194 0.3569350 0.5097854 0.35857530
## sam2 0.7377984 0.4824100 0.2217336 0.5901615 0.5123843 0.84017769
## sam3 0.2175124 0.2390167 0.6114282 0.9403346 0.2172511 0.08141461
## sam4 0.5430782 0.8462169 0.9016993 0.9505934 0.8556984 0.53572619
##           s25
## sam1 0.2356035
## sam2 0.4669854
## sam3 0.6340752
## sam4 0.3403884
##
## Slot "modified":
## [1] TRUE
```

```
results_sumarise <- summarise(add_together_matrix(sign_dummy))  
  
## Error in switch(robust, pearson = {:  EXPR must be a length 1 vector  
results_sumarise$General  
  
## Error in eval(expr, envir, enclos):  object 'results_sumarise' not  
found
```