

Package: finemapr (via r-universe)

September 21, 2026

Title R wrapper to fine-mappers

Version 0.1.0

Date 2018-02-09

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Description R wrapper to fine-mappers.

License GPL (>= 3)

URL <https://github.com/variani/finemapr>

Imports tibble, dplyr, readr, magrittr, ggplot2, ggrepel, cowplot,
data.table, Matrix, scales

Suggests proxysnps, RCurl, gaston, rsnp, testthat, knitr, rmarkdown

Remotes slowkow/proxysnps

Collate 'package.R' 'names.R' 'sumstats.R' 'abf.R' 'cojo.R' 'utils.R'
'read.R' 'datasets.R' 'files.R' 'plots.R' 'finemap.R'
'caviar.R' 'paintor.R' 'classMethods.R'
'classFinemaprPainter.R' 'classFinemaprFinemap.R'
'classFinemaprCaviar.R' 'finemapr.R' 'ld.R' 'zzz.R'

RoxygenNote 7.3.3

VignetteBuilder knitr

Encoding UTF-8

Config/pak/sysreqs libx11-dev

Repository <https://mrcieu.r-universe.dev>

Date/Publication 2026-03-03 12:54:04 UTC

RemoteUrl <https://github.com/remlapmot/finemapr>

RemoteRef suggestions-2

RemoteSha ccbd6f4dd8c62dfe694914caaf284a6dc53eeb63

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abf	<i>abf</i>
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Description

abf

Usage

```
abf(effect, se, snp = paste0("snp", seq(1, nrow(effect))))
```

Examples

```
## Not run:
ex <- example_finemap()
se <- rep(1/sqrt(ex$n1), nrow(ex$tab1))
effect <- ex$tab1$zscore * se
out <- abf(effect, se)

## End(Not run)
```

cojo

Run GCTA-COJO.

Description

<http://gcta.freeforums.net/thread/178/conditional-joint-analysis-using-summary>

Usage

```
cojo(
  tab,
  bed,
  method = c("select", "cond"),
  cmd = "",
  snps_cond = NULL,
  dir_run = "run_cojo",
  tool = getOption("finemapr_cojo"),
  args = ""
)
```

Details

```
tab <- "~/git/hemostat/scc/results/sumstats-cojo/sumstats-1.cojo" bed <- "~/git/hemostat/scc/data/FineMapping/forGCTA_on"
```

filename_zscore.FinemaprFinemap

S3 class FinemaprFinemap.

Description

S3 class FinemaprFinemap.

Usage

```
## S3 method for class 'FinemaprFinemap'
filename_zscore(x, locus = 1, ...)

## S3 method for class 'FinemaprFinemap'
filename_ld(x, locus = 1, ...)

## S3 method for class 'FinemaprFinemap'
filename_snp(x, locus, ...)

## S3 method for class 'FinemaprFinemap'
filename_config(x, locus, ...)
```

```

## S3 method for class 'FinemaprFinemap'
filename_k(x, locus, ...)

## S3 method for class 'FinemaprFinemap'
filename_log(x, locus, ...)

## S3 method for class 'FinemaprFinemap'
filename_master(x, ...)

## S3 method for class 'FinemaprFinemap'
write_files(x, ...)

## S3 method for class 'FinemaprFinemap'
run_tool(x, ...)

## S3 method for class 'FinemaprFinemap'
collect_results(x, ...)

## S3 method for class 'FinemaprFinemap'
print(x, ...)

## S3 method for class 'FinemaprFinemap'
plot(
  x,
  grid_nrow = NULL,
  grid_ncol = NULL,
  label_size = getOption("finemapr_label_size"),
  label_size_config = label_size,
  label_size_snp = label_size,
  top_rank = getOption("top_rank"),
  top_rank_config = top_rank,
  top_rank_snp = top_rank,
  lim_prob = getOption("lim_prob"),
  lim_prob_config = lim_prob,
  lim_prob_snp = lim_prob,
  lim_prob_ncausal = lim_prob,
  ...
)

## S3 method for class 'FinemaprFinemap'
plot_ncausal(x, locus = 1, lim_prob = c(0, 1), ...)

## S3 method for class 'FinemaprFinemap'
plot_config(
  x,
  locus = 1,
  lim_prob = c(0, 1.5),

```

```

    label_size = getOption("finemapr_label_size"),
    top_rank = getOption("top_rank"),
    ...
)

## S3 method for class 'FinemaprFinemap'
plot_snp(
  x,
  locus = 1,
  lim_prob = c(0, 1.5),
  label_size = getOption("finemapr_label_size"),
  top_rank = getOption("top_rank"),
  ...
)

```

```

filename_zscore.FinemaprPainter
      S3 class FinemaprPainter.

```

Description

S3 class FinemaprPainter.

Usage

```

## S3 method for class 'FinemaprPainter'
filename_zscore(x, locus = 1, ...)

## S3 method for class 'FinemaprPainter'
filename_ld(x, locus = 1, ...)

## S3 method for class 'FinemaprPainter'
filename_annot(x, locus = 1, ...)

## S3 method for class 'FinemaprPainter'
filename_master(x, ...)

## S3 method for class 'FinemaprPainter'
filename_snp(x, locus, ...)

## S3 method for class 'FinemaprPainter'
print(x, ...)

## S3 method for class 'FinemaprPainter'
process_annot(x, annots, annotations, ...)

## S3 method for class 'FinemaprPainter'

```

```

write_files(x, ...)

## S3 method for class 'FinemaprPainter'
run_tool(x, ...)

## S3 method for class 'FinemaprPainter'
collect_results(x, ...)

```

finemapr

Run FINEMAP.

Description

Run FINEMAP.

Usage

```

finemapr(
  tab,
  ld,
  n,
  annot,
  annotations,
  prop_credible = 0.95,
  method = c("finemap", "paintor"),
  dir_run,
  tool,
  args = "",
  prior_k,
  save_ld = FALSE,
  ret = c("results", "zscore", "ld")
)

```

Examples

```

## Not run:
ex <- example_finemap()
out <- finemapr(
  list(ex$tab1, ex$tab2),
  list(ex$ld1, ex$ld2),
  list(ex$n1, ex$n2),
  args = "--n-causal-max 1")
out <- finemapr(list(ex$tab1, ex$tab2), list(ex$ld1, ex$ld2),
  list(ex$n1, ex$n2), method = "paintor", args = "-enumerate 1")

## End(Not run)

```

FinemaprCaviar	<i>S3 class FinemaprCaviar.</i>
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Description

S3 class FinemaprCaviar.

Usage

```
## S3 method for class 'FinemaprCaviar'
print(x, ...)

## S3 method for class 'FinemaprCaviar'
plot(x, ...)

## S3 method for class 'FinemaprCaviar'
plot_snp(
  x,
  lim_prob = c(0, 1.5),
  label_size = getOption("finemapr_label_size"),
  top_rank = getOption("top_rank"),
  ...
)
```

finemaprPackage	<i>Package finemapr.</i>
-----------------	--------------------------

Description

R wrapper to fine-mappers.

Author(s)

Maintainer: Andrey Ziyatdinov <andrey@example.com>

See Also

Useful links:

- <https://github.com/variani/finemapr>

plot_zscore.Finemapr *S3 class Finemapr.*

Description

S3 class Finemapr.

Usage

```
## S3 method for class 'Finemapr'
plot_zscore(
  x,
  locus = 1,
  label_size = getOption("finemapr_label_size"),
  selected,
  force = 20,
  color_main = "grey75",
  color_selected = "aquamarine4",
  color_credible = "dodgerblue4",
  color_missing = "brown",
  plot_missing = FALSE,
  ...
)

plot_ncausal(x, ...)

## S3 method for class 'Finemapr'
print(x, ...)

## S3 method for class 'Finemapr'
print(x, ...)

## S3 method for class 'Finemapr'
plot(x, ...)

## S3 method for class 'Finemapr'
plot_snp(
  x,
  lim_prob = c(0, 1.5),
  label_size = getOption("finemapr_label_size"),
  top_rank = getOption("top_rank"),
  ...
)

## S3 method for class 'Finemapr'
extract_credible_set(x, ...)
```

```
## S3 method for class 'Finemapr'
process_tab(x, tabs, ...)
```

```
## S3 method for class 'Finemapr'
process_ld(x, lds, ...)
```

Note

Colors: <http://www.stat.columbia.edu/~tzheng/files/Rcolor.pdf>

proxysnps_ref_ld	https://github.com/slowkow/proxysnps/blob/master/R/get_vcf.R
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Description

https://github.com/slowkow/proxysnps/blob/master/R/get_vcf.R

Usage

```
proxysnps_ref_ld(
  vcf,
  tol = 1e-10,
  measure = c("R.squared", "D.prime"),
  verbose = 0
)
```

proxysnps_ref_vcf	https://github.com/slowkow/proxysnps/blob/master/R/get_vcf.R
-------------------	---

Description

https://github.com/slowkow/proxysnps/blob/master/R/get_vcf.R

Usage

```
proxysnps_ref_vcf(
  chr = 16,
  start = 53767000,
  end = 53768000,
  pop = "EUR",
  snps = NULL,
  verbose = 0
)
```

read_ld	<i>Read LD matrix from a file.</i>
---------	------------------------------------

Description

Read LD matrix from a file.

Usage

```
read_ld(file_ld, snps)
```

Examples

```
f1 <- system.file("extdata/region1.ld", package = "finemapr")
ld <- read_ld(f1)
```

read_zscore	<i>Read z-scores from a file.</i>
-------------	-----------------------------------

Description

Read z-scores from a file.

Usage

```
read_zscore(file_zscore)
```

Examples

```
f1 <- system.file("extdata/region1.z", package = "finemapr")
ztab <- read_zscore(f1)
```

`run_caviar`*Run CAVIAR.*

Description

Output file ('*_post'): column #1 is the variant name; column #2 is the posterior prob. that the variant is causal (<https://github.com/fhormoz/caviar/issues/1#issuecomment-286521771>); column #3 is the amount that this variant contributes to 95

Usage

```
run_caviar(  
  tab,  
  ld,  
  dir_run = "run_caviar",  
  tool = getOption("finemapr_caviar"),  
  args = ""  
)
```

Examples

```
## Not run:  
ex <- example_finemap()  
out <- run_caviar(ex$tab1, ex$ld1, args = "-c 2")  
out <- run_caviar(ex$tab1, ex$ld1, args = "-c 0")  
  
## End(Not run)
```

`run_finemap`*Run FINEMAP.*

Description

Run FINEMAP.

Usage

```
run_finemap(  
  tab,  
  ld,  
  n,  
  dir_run = "run_finemap",  
  tool = getOption("finemapr_finemap"),  
  args = ""  
)
```

Examples

```
## Not run:
ex <- example_finemap()
out <- run_finemap(ex$tab1, ex$ld1, ex$n1, args = "--n-causal-max 3")
out <- run_finemap(ex$tab1, ex$ld1, ex$n1, args = "--n-causal-max 1")

## End(Not run)
```

run_paintor	<i>Run Paintor.</i>
-------------	---------------------

Description

Run Paintor.

Usage

```
run_paintor(
  tab,
  ld,
  n,
  annot,
  annotations,
  dir_run = "run_paintor",
  tool = getOption("finemapr_paintor"),
  args = ""
)
```

Examples

```
## Not run:
ex <- example_finemap()
out <- run_paintor(ex$tab1, ex$ld1)

## End(Not run)
```

sumstats_bmi	https://data.broadinstitute.org/alkesgroup/sumstats_formatted/readme.txt https://github.com/bulik/ldsc/wiki/Partitioned-Heritability
--------------	--

Description

https://data.broadinstitute.org/alkesgroup/sumstats_formatted/readme.txt <https://github.com/bulik/ldsc/wiki/Partitioned-Heritability>

Usage

```
sumstats_bmi()
```

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