realnetdata

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```
library(greed)
library(future)
plan(multisession)
library(ggplot2)
## Registered S3 methods overwritten by 'ggplot2':
##
    method
                    from
##
     [.quosures
                    rlang
##
     c.quosures
                    rlang
##
     print.quosures rlang
library(ggpubr)
## Loading required package: magrittr
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
       filter, lag
##
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(Matrix)
set.seed(1234)
data("Blogs")
fit_blogs = greed(Blogs$X,model=new("dcsbm"),alg=new("hybrid",pop_size=40))
data("Books")
fit_books = greed(Books$X,model=new("dcsbm"),alg=new("hybrid",pop_size=40))
data("Football")
fit_foot = greed(Football$X,model=new("dcsbm"),alg=new("hybrid",pop_size=40))
data("Jazz")
fit_jazz = greed(Jazz,model=new("dcsbm"),alg=new("hybrid",pop_size=40))
```

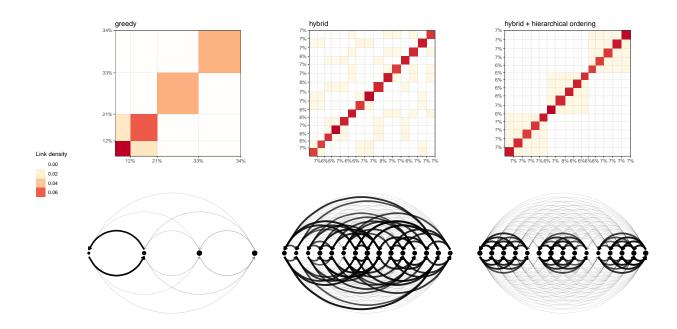
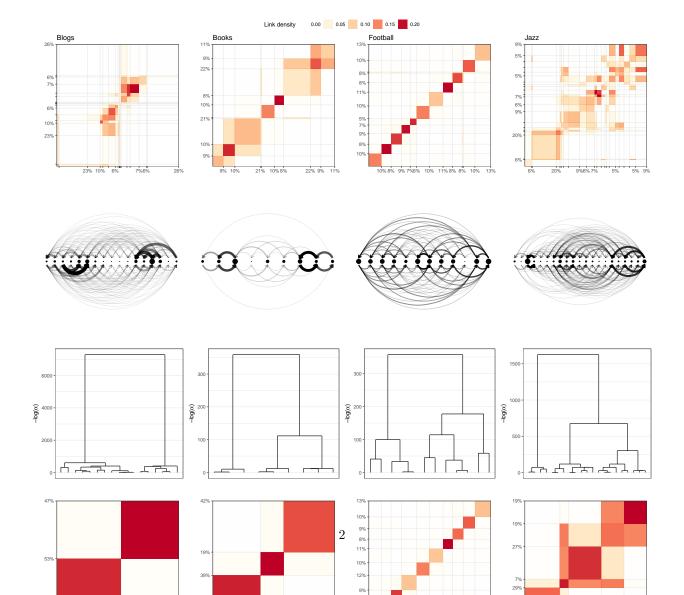
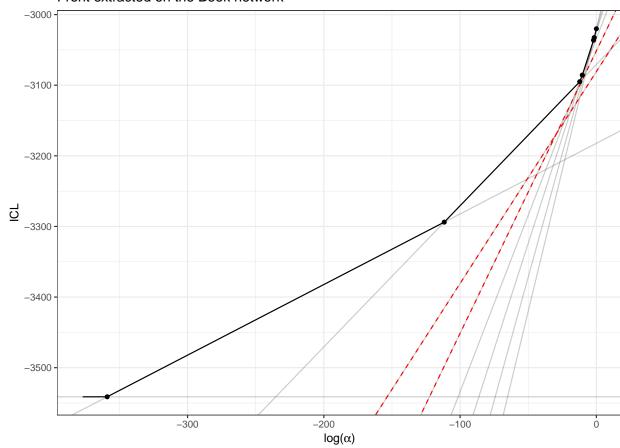


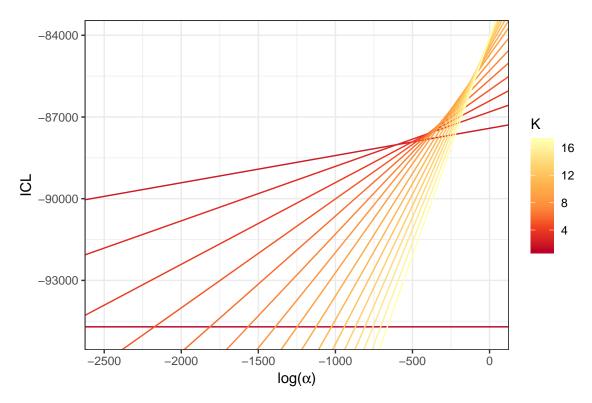
Figure 1: Motivating example of the proposed algorithm. Block matrix representation of the solutions (upper row) and cluster node link diagram (bottom row).



Joining, by = c("icl", "K")

Front extracted on the Book network





```
data("Xvlegislature")
fit_pol = greed(Xvlegislature$X,alg=new("hybrid",pop_size=40),K=100)
data("Jazz_full")
Xc=Jazz_full$X[rowSums(Jazz_full$X)>2,]
Xc=Xc[,colSums(Xc)>2]
fit_cojazz = greed(Xc,alg=new("hybrid",pop_size=40),K=60)
```

