

fMRI_Analysis

2022-11-27

Import data

```
# Change file extension
# path <- "./data/data/"
# old_names <- list.files(path)
# new_names <- gsub(".1D", ".csv", old_names)
# file.rename(paste0(path, file_names), paste0(path, new_names))

# Import data
dat1 <- fread("./data/data/CMU_a_0050642_rois_dosenbach160.csv", select = c(1:160))

library(pcalg)
```

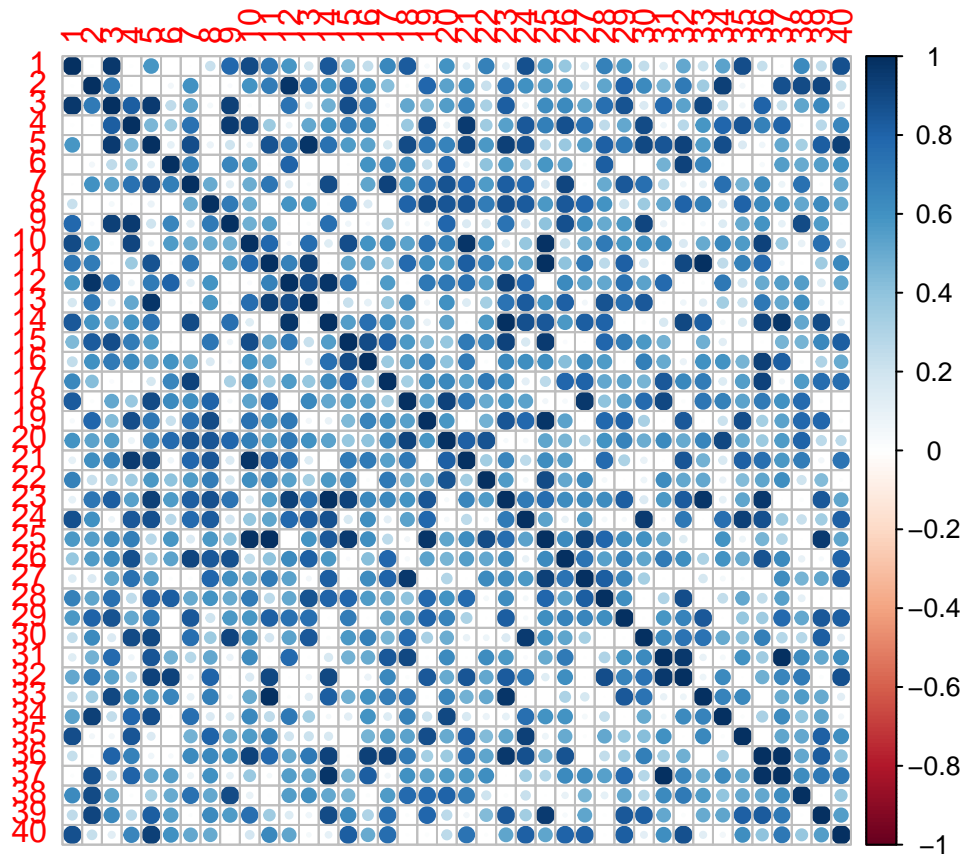
```
## Warning: package 'pcalg' was built under R version 4.1.2
```

```
library(corrplot)
```

```
## corrplot 0.92 loaded
```

```
set.seed(2022)

indepTest <- gaussCitest
suffStat <- list(C = cor(dat1[,1:40]), n = nrow(dat1[,1:40]))
pc.est <- pc(suffStat, indepTest, alpha = 0.5, p = 40,
            m.max = 1, verbose = FALSE)
corrplot(pc.est@pMax)
```



```
pc.est_2 <- pc(suffStat, indepTest, alpha = 0.05, p = 40,
               m.max = 1, verbose = FALSE)
corrplot(pc.est_2@pMax)
```

