August 8, 2022

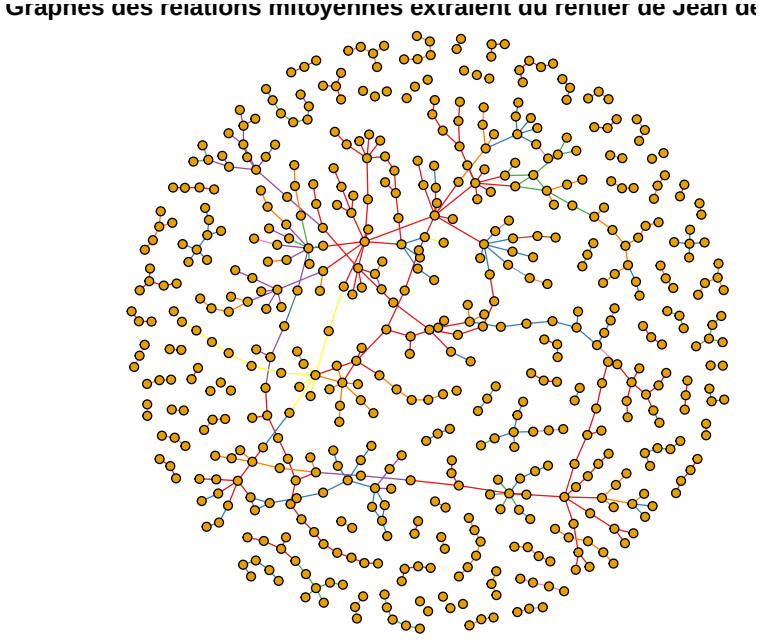
The results below are generated from an R script.

```
####  palette de couleurs ####
df_numEscroete_colors = data.frame(
  numEscroete = unique(df_links$NumEscroete),
  colors = c(brewer.pal(n = 8, name = 'Set1'),brewer.pal(n = 3, name = 'Set2'))
)

#### inclusion des couleurs dans df_links ####
if (length(df_links)<= 6) {
  df_links <- cbind(df_links,df_links$NumEscroete)
  names(df_links)[7] <- "Ecol"
  for (i in 1:length(df_numEscroete_colors$numEscroete)) {
    df_links[df_links[,7] == df_numEscroete_colors$numEscroete[i],7] <- df_numEscroete_colors$colors[i]
  }
}

#### objet igraph #####
g <- graph_from_data_frame(d=df_links, directed=FALSE)
g <- simplify(g)
E(g)$NumEscroete <- df_links$NumEscroete
E(g)$NumConnetablie <- df_links$NumConnetablie
E(g)$RdV <- df_links$RdV
E(g)$NumRente <- df_links$NumRente
E(g)$color <- df_links$Ecol

#### plotting #####
plot(g, layout=layout_nicely,
     vertex.size=3 ,
     vertex.label= ifelse(V(g)$name == "JEHAN DE FRANCHE" || V(g)$name == "JEHAN DE FRANCHE",V(g)$name,
     vertex.label.cex=.6)
title(main = "Graphes des relations mitoyennes extraient du rentier de Jean de France")
legend(x=1.2, y=1.,
       df_numEscroete_colors$numEscroete,
       pch=22, col="#777777", pt.bg=df_numEscroete_colors$colors,
       pt.cex=1, cex=.5, bty="n", ncol=1)
```



The R session information (including the OS info, R version and all packages used):

```
sessionInfo()
```

```
## R version 4.0.3 (2020-10-10)
## Platform: x86_64-apple-darwin17.0 (64-bit)
## Running under: macOS  12.3.1
##
## Matrix products: default
## LAPACK: /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRlapack.dylib
##
## locale:
## [1] fr_BE.UTF-8/fr_BE.UTF-8/fr_BE.UTF-8/C/fr_BE.UTF-8/fr_BE.UTF-8
##
## attached base packages:
## [1] stats     graphics  grDevices datasets  utils     methods   base
##
## other attached packages:
##  [1] RColorBrewer_1.1-3 concaveman_1.1.0   ggforce_0.3.3      scales_1.2.0
##  [5] ggrepel_0.9.1      readxl_1.3.1       tidygeocoder_1.0.5 ggraph_2.0.5.9000
##  [9] ggmap_3.0.0        igraph_1.3.0       comparator_0.1.2   forcats_0.5.1
## [13] dplyr_1.0.9        purrr_0.3.4        readr_2.1.2        tidyr_1.2.0
## [17] tibble_3.1.8       ggplot2_3.3.6      tidyverse_1.3.1    stringr_1.4.0.9000
##
## loaded via a namespace (and not attached):
##  [1] bitops_1.0-7        fs_1.5.2            lubridate_1.8.0     httr_1.4.2
##  [5] tools_4.0.3         backports_1.4.1     utf8_1.2.2          R6_2.5.1
##  [9] DBI_1.1.2           colorspace_2.0-3    withr_2.5.0         sp_1.5-0
## [13] tidyselect_1.1.2    gridExtra_2.3       curl_4.3.2          compiler_4.0.3
## [17] cli_3.3.0           rvest_1.0.2         xml2_1.3.3          proxy_0.4-26
## [21] digest_0.6.29       jpeg_0.1-9          pkgconfig_2.0.3     highr_0.9
```

```
## [25] dbplyr_2.1.1        rlang_1.0.4         rstudioapi_0.13     farver_2.1.1
## [29] generics_0.1.3      jsonlite_1.8.0      magrittr_2.0.3      Rcpp_1.0.9
## [33] munsell_0.5.0       fansi_1.0.3         viridis_0.6.2       lifecycle_1.0.1
## [37] stringi_1.7.6       MASS_7.3-53         plyr_1.8.7          grid_4.0.3
## [41] crayon_1.5.0        lattice_0.20-41     graphlayouts_0.8.0  haven_2.4.3
## [45] hms_1.1.1           knitr_1.37          pillar_1.8.0        rjson_0.2.21
## [49] reprex_2.0.1        glue_1.6.2          evaluate_0.15       renv_0.15.4
## [53] modelr_0.1.8        png_0.1-7           vctrs_0.4.1         tzdb_0.2.0
## [57] tweenr_1.0.2        RgoogleMaps_1.4.5.3 cellranger_1.1.0    gtable_0.3.0
## [61] polyclip_1.10-0     clue_0.3-60         assertthat_0.2.1    xfun_0.30
## [65] broom_0.7.12        tidygraph_1.2.1     viridisLite_0.4.0   tinytex_0.37
## [69] cluster_2.1.0       ellipsis_0.3.2

Sys.time()

## [1] "2022-08-08 07:42:40 CEST"
```