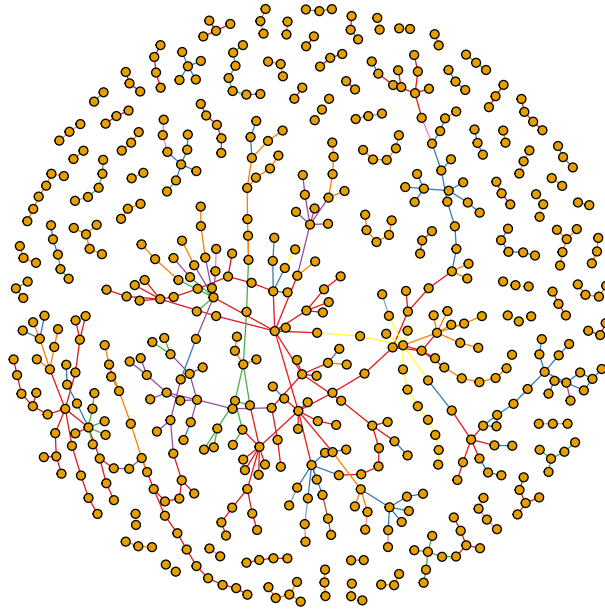August 8, 2022

The results below are generated from an R script.

```r
setwd(dir="~/Rprojects/NLPJeanDeFrance")
library(stringr)
library(tidyverse)
library(comparator)
library(ggplot2)
library(igraph)
library(dplyr)
require(ggmap)
library(ggraph)
library(tidygeocoder)
library(readxl)
library(ggrepel)
library(scales)
library(ggforce)
library(concaveman)
library(RColorBrewer)
source("./scripts/functions_Seg.R")
source("./scripts/functions_REN.R")

#### Execution ####
dataImported <- scan(file = "./sources/DossierFranceTXT.txt", what = "string")

source("./scripts/segmentation.R")
source("./scripts/REN.R")
source("./scripts/relations.R")
source("./scripts/graphes_gen.R")
```

```r
source("./scripts/carto.R")
source("./scripts/map.R")
```

```
## 49 tiles needed, this may take a while (try a smaller zoom).
## Passing 65 addresses to the Nominatim single address geocoder
## Query completed in:  66.8 seconds
## Joining, by = "porte"
## Joining, by = "porte"
## Joining, by = "numConnetablie"
## Using 'stress' as default layout
## Using 'stress' as default layout
## Using 'stress' as default layout
## Using 'stress' as default layout
## Using 'stress' as default layout
## Using 'stress' as default layout
## Using 'stress' as default layout
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## Using 'stress' as default layout
## Using 'stress' as default layout
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## Using 'stress' as default layout
```

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

```r
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 07:36:23 CEST"
```