Untitled

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16 februari 2018

library(bupaR)

## Loading required package: edeaR

## Loading required package: eventdataR

## Loading required package: processmapR

## Loading required package: xesreadR

##   
## Attaching package: 'bupaR'

## The following object is masked from 'package:stats':  
##   
## filter

## The following object is masked from 'package:utils':  
##   
## timestamp

library(edeaR)  
library(processmonitR)  
library(plotluck)  
library(DiagrammeR)  
library(data.table)  
#library(DiagrammeRsvg)  
library(anytime)  
library(processmapR)  
  
csvLog<-read.table("../largeFile.csv",header = TRUE, sep = ";",na = c("n.v.t.","onbekend","-", "NA"))  
csvLog$timeStamp <- as.POSIXct(strptime(csvLog$timeStamp, "%d-%m-%Y"))

#Gevonden kolomkoppen:

## [1] "eenheidnr" "regio"   
## [3] "wijk\_omschrijving" "type\_omschrijving"   
## [5] "postcode" "straat"   
## [7] "plaats" "pmc\_nummer"   
## [9] "aantal\_kamers" "totaal\_oppervlakte"   
## [11] "Woningen\_aftoppen\_op\_1" "Woningen\_aftoppen\_op\_2"  
## [13] "Woningen\_aftoppen\_op\_3" "Woningen\_aftoppen\_op\_4"  
## [15] "Marktlabel" "Exploitatielabel"   
## [17] "bouwjaar" "epa\_label"   
## [19] "balkon\_terras" "achtertuin"   
## [21] "voortuin" "zijtuin"   
## [23] "perc\_max\_redelijk" "Activiteit"   
## [25] "CaseSubId" "CaseId"   
## [27] "Werknemer" "extra\_kenmerk"   
## [29] "activity\_instance" "status"   
## [31] "timeStamp"

#Omzetten naar een processmining Log

# Map met standaard functie

graphStandaard <- process\_map(eventLog.Base, type = performance(),render = FALSE )  
graphStandaard %>%  
 export\_graph(file\_name = "Z:/Dump/mapPerformanceMetStandaardFunctie.svg", file\_type = "SVG")

graphStandaard <- process\_map(eventLog.Base, type = frequency(),render = FALSE )  
graphStandaard %>%  
 export\_graph(file\_name = "Z:/Dump/mapFrequencyMetStandaardFunctie.svg", file\_type = "SVG")



# Map met frequency

fileName <- "frequency"  
agregationInst = list( enriched\_frequency(value = "absolute", columnName = "xxx") )  
map<-enriched\_process\_map(eventLog.Base, aggregationInstructions = agregationInst )

## Joining, by = c("act", "aid", "case")

## Warning in bind\_rows\_(x, .id): binding factor and character vector,  
## coercing into character vector

## Warning in bind\_rows\_(x, .id): binding character and factor vector,  
## coercing into character vector

## Warning in min(nodes\_df$color\_level): no non-missing arguments to min;  
## returning Inf

## Warning in max(nodes\_df$color\_level[nodes\_df$color\_level < Inf]): no non-  
## missing arguments to max; returning -Inf

## Joining, by = c("act", "next\_act")

map <- map %>%  
 processmapR::color\_activities( column = "xxx",  
 colorCaption = "black",  
 colorUpperbound = "deeppink",  
 colorLowerbound = "green1") %>%  
 label\_activities(columns =c("activity\_name","xxx")) %>%  
 color\_transitions(column = "xxx",  
 colorCaption = "black",  
 colorUpperbound = "deeppink",  
 colorLowerbound = "darkgreen") %>%  
 label\_transitions(columns = c("xxx"))

## `select\_nodes()` INFO: created a new selection of 1 node

## `clear\_selection()` INFO: cleared an existing selection of 1 node

## `select\_nodes()` INFO: created a new selection of 1 node

map %>% export\_graph(file\_name = "Z:/Dump/Map met frequency.svg", file\_type = "SVG")



# Map met performance

agregationInst = list( enriched\_performance(FUN = mean, columnName = "xxx"))  
rm(map)  
map<-enriched\_process\_map(eventLog.Base, aggregationInstructions = agregationInst )

## Joining, by = c("act", "aid", "case")

## Warning in bind\_rows\_(x, .id): binding factor and character vector,  
## coercing into character vector

## Warning in bind\_rows\_(x, .id): binding character and factor vector,  
## coercing into character vector

## Warning in min(nodes\_df$color\_level): no non-missing arguments to min;  
## returning Inf

## Warning in max(nodes\_df$color\_level[nodes\_df$color\_level < Inf]): no non-  
## missing arguments to max; returning -Inf

## Joining, by = c("act", "next\_act")

map <- map %>%  
 processmapR::color\_activities( column = "xxx",  
 colorCaption = "black",  
 colorUpperbound = "deeppink",  
 colorLowerbound = "green1") %>%  
 label\_activities(columns =c("activity\_name","xxx")) %>%  
 color\_transitions(column = "xxx",  
 colorCaption = "black",  
 colorUpperbound = "deeppink",  
 colorLowerbound = "darkgreen") %>%  
 label\_transitions(columns = c("xxx"))

## `select\_nodes()` INFO: created a new selection of 1 node

## `clear\_selection()` INFO: cleared an existing selection of 1 node

## `select\_nodes()` INFO: created a new selection of 1 node

map %>%  
 export\_graph(file\_name = "Z:/Dump/Map met performance.svg", file\_type = "SVG")



# Map met aggregate en perf

agregationInst = list(enriched\_column\_aggregate( FUN = mean, columnNameIn = "aantal\_kamers", columnNameOut = "xxx1", edgeOperation = "to"),enriched\_column\_aggregate( FUN = mean, columnNameIn = "totaal\_oppervlakte", columnNameOut = "xxx2", edgeOperation = "from"),enriched\_performance(FUN = mean, columnName = "perf")  
 )  
map<-enriched\_process\_map(eventLog.Base, aggregationInstructions = agregationInst )

## Joining, by = c("act", "aid", "case")

## Warning in bind\_rows\_(x, .id): binding factor and character vector,  
## coercing into character vector

## Warning in bind\_rows\_(x, .id): binding character and factor vector,  
## coercing into character vector

## Warning in min(nodes\_df$color\_level): no non-missing arguments to min;  
## returning Inf

## Warning in max(nodes\_df$color\_level[nodes\_df$color\_level < Inf]): no non-  
## missing arguments to max; returning -Inf

## Adding missing grouping variables: `case`

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## Joining, by = c("act", "next\_act")

## Warning in data.table(structure(list(xxx1 = c(3.1304347826087, 4,  
## 3.24242424242424, : Item 1 is of size 206 but maximum size is 401 (recycled  
## leaving remainder of 195 items)

## Warning in data.table(structure(list(xxx1 = c(3.1304347826087, 4,  
## 3.24242424242424, : Item 2 is of size 301 but maximum size is 401 (recycled  
## leaving remainder of 100 items)

# Map met xxx2

map <- map %>%  
 processmapR::color\_activities( column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "gray50",  
 colorLowerbound = "gray100") %>%  
 label\_activities(columns =c("activity\_name","xxx2")) %>%  
 color\_transitions(column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "gray0",  
 colorLowerbound = "gray50") %>%  
 label\_transitions(columns = c("xxx2"))

## `select\_nodes()` INFO: created a new selection of 1 node

## `clear\_selection()` INFO: cleared an existing selection of 1 node

## `select\_nodes()` INFO: created a new selection of 1 node

map %>%  
 export\_graph(file\_name = "Z:/Dump/Map met xxx2.svg", file\_type = "SVG")



# xxx1xxx2activiteit

map <- map %>%  
 color\_activities( column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "lightblue",  
 colorLowerbound = "green1") %>%  
 label\_activities(columns =c("activity\_name","xxx1","xxx2")) %>%  
 color\_transitions(column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "deeppink",  
 colorLowerbound = "darkgreen") %>%  
 label\_transitions(columns = c("xxx1","xxx2"))

## `select\_nodes()` INFO: modified an existing selection of 1 node:  
## \* 2 nodes are now in the active selection  
## \* used the `union` set operation

## `clear\_selection()` INFO: cleared an existing selection of 2 nodes

## `select\_nodes()` INFO: created a new selection of 1 node

# Map met max en perf

agregationInst = list(enriched\_column\_aggregate( FUN = sum, columnNameIn = "aantal\_kamers", columnNameOut = "xxx1", edgeOperation = "to"),enriched\_column\_aggregate( FUN = mean, columnNameIn = "totaal\_oppervlakte", columnNameOut = "xxx2", edgeOperation = "mean"),enriched\_performance(FUN = mean, columnName = "perf")  
 )  
map<-enriched\_process\_map(eventLog.Base, aggregationInstructions = agregationInst )

## Joining, by = c("act", "aid", "case")

## Warning in bind\_rows\_(x, .id): binding factor and character vector,  
## coercing into character vector

## Warning in bind\_rows\_(x, .id): binding character and factor vector,  
## coercing into character vector

## Warning in min(nodes\_df$color\_level): no non-missing arguments to min;  
## returning Inf

## Warning in max(nodes\_df$color\_level[nodes\_df$color\_level < Inf]): no non-  
## missing arguments to max; returning -Inf

## Adding missing grouping variables: `case`

## Adding missing grouping variables: `case`

## Joining, by = c("act", "next\_act")

## Warning in data.table(structure(list(xxx1 = c(72, 4, 107, 176, 3, 16, 33, :  
## Item 1 is of size 206 but maximum size is 401 (recycled leaving remainder  
## of 195 items)

## Warning in data.table(structure(list(xxx1 = c(72, 4, 107, 176, 3, 16, 33, :  
## Item 2 is of size 301 but maximum size is 401 (recycled leaving remainder  
## of 100 items)

# Map met xxx2

map <- map %>%  
 color\_activities( column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "gray50",  
 colorLowerbound = "gray100") %>%  
 label\_activities(columns =c("activity\_name","xxx1","xxx2")) %>%  
 color\_transitions(column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "gray0",  
 colorLowerbound = "gray50") %>%  
 label\_transitions(columns = c("xxx2"))

## `select\_nodes()` INFO: created a new selection of 1 node

## `clear\_selection()` INFO: cleared an existing selection of 1 node

## `select\_nodes()` INFO: created a new selection of 1 node

map %>%  
 export\_graph(file\_name = "Z:/Dump/Map met xxx2.svg", file\_type = "SVG")



# xxx1xxx2activiteit

map <- map %>%  
 color\_activities( column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "lightblue",  
 colorLowerbound = "green1") %>%  
 label\_activities(columns =c("activity\_name","xxx1","xxx2")) %>%  
 color\_transitions(column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "deeppink",  
 colorLowerbound = "darkgreen") %>%  
 label\_transitions(columns = c("xxx1","xxx2"))

## `select\_nodes()` INFO: modified an existing selection of 1 node:  
## \* 2 nodes are now in the active selection  
## \* used the `union` set operation

## `clear\_selection()` INFO: cleared an existing selection of 2 nodes

## `select\_nodes()` INFO: created a new selection of 1 node

map %>% export\_graph(file\_name = "Z:/Dump/xxx1xxx2activiteit.svg", file\_type = "SVG")



# xxx2 blind

map <- map %>%  
 color\_activities( column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "lightblue",  
 colorLowerbound = "green1") %>%  
 label\_activities(columns =c()) %>%  
 color\_transitions(column = "xxx2",  
 colorCaption = "black",  
 colorUpperbound = "deeppink",  
 colorLowerbound = "darkgreen") %>%  
 label\_transitions(columns = c())

## `select\_nodes()` INFO: modified an existing selection of 1 node:  
## \* 2 nodes are now in the active selection  
## \* used the `union` set operation

## `clear\_selection()` INFO: cleared an existing selection of 2 nodes

## `select\_nodes()` INFO: created a new selection of 1 node

map %>% export\_graph(file\_name = "Z:/Dump/xxx2blind.svg", file\_type = "SVG")

