rm(list=ls())

source("R/clean.R")

source("R/analysis.R")

## read data, data clearnning and sub-scale calculation

src <- "data/2157154\_seg\_1.csv"

coding <- read.csv("data/survey\_questions.csv", stringsAsFactors = FALSE)

dat0 <- read\_dat(src, coding)

dat0 <- tran\_age(dat0)

dat0 <- tran\_other(dat0)

dat <- sub\_scale(dat0, coding, remove = FALSE)

### .1. internal consistency measures of reliability

### cronbach's alpha from psych package

#status origin - 0.916 - excelllent

cols <- grep("status\_origin[0-9]{1}", names(dat))

psych::alpha(dat[cols])$total$std.alpha

#status current - 0.917 - excellent

cols <- grep("status\_current[0-9]{1}", names(dat))

psych::alpha(dat[cols])$total$std.alpha

# life satisfaction - 0.886 - great

cols <- grep("life\_satisfaction[0-9]{1}", names(dat))

psych::alpha(dat[cols])$total$std.alpha

# motherhood satisfaction - 0.835 - great

cols <- grep("motherhood\_satisfaction[0-9]{1}", names(dat))

psych::alpha(dat[cols])$total$std.alpha

# mother interferes work - 0.932 - excellent

cols <- grep("mother\_interferes\_work[0-9]{1}", names(dat))

psych::alpha(dat[cols])$total$std.alpha

# work interferes mother - 0.951 - excellent

cols <- grep("work\_interferes\_mother[0-9]{1}", names(dat))

psych::alpha(dat[cols])$total$std.alpha

### .2.content analysis of motherhood perception

dat <- sub\_scale(dat0, coding, remove = TRUE)

dat <- content\_anlaysis(dat)

Lin, look for a .csv file in dropbox/survey analysis/output, and describe the frequencies of different types of motherhood.

## motherhood type independency check

for(i in names(dat[-c(1:3)])) {

a = table(dat$motherhood\_type[dat$motherhood\_type != "unknown"],

dat[[i]][dat$motherhood\_type != "unknown"])

a = summary(a)

if(a$p.value < 0.05) {

print(i)

}

}

motherhood1, rank\_mother, education are three dependent variables to motherhood\_type