##################################################################

##################################################################

# Trajetorias ARI

##################################################################

##################################################################

### Limpar área de trabalho

remove(list=ls())

#Defining the working directory

setwd("C:/Users/r1372845/Documents/Trajetórias de reguladores/Trajetórias de reguladores (2)/Trajetórias de reguladores")

seqregclass <- read.csv(file="Base reguladores novos codigos sem mandato exercicio reduz.csv", header=TRUE, sep=";", dec=",", fill=TRUE, na.strings="")

#mosaicplot

library(vcd)

#Tipos e agências

ctagencia.labels <- c("Agency", "Types of Trajectory")

ctagencia <- table(seqregclass$Agencia, seqregclass$pattern, dnn = (ctagencia.labels))

mosaic(ctagencia, shade=TRUE, legend=TRUE)

chisagencia <- chisq.test(ctagencia)

chisagencia$obs

chisagencia$exp

chisagencia$stdres

chisagencia$residuals

#Setor privado e politização

ctprivpol.labels <- c("Political", "After")

ctprivpol <- table(seqregclass$politico, seqregclass$depois, dnn = (ctprivpol.labels))

mosaic(ctprivpol, shade=TRUE, legend=TRUE)

chisprivpol <- chisq.test(ctprivpol)

chisprivpol$stdres

chisprivpol$residuals

#Setor privado e público

ctprivpub.labels <- c("Before", "After")

ctprivpub <- table(seqregclass$antes, seqregclass$depois, dnn = (ctprivpub.labels))

mosaic(ctprivpub, shade=TRUE, legend=TRUE)

chisprivpub <- chisq.test(ctprivpub)

chisprivpub$stdres

chisprivpub$residuals

#Modelo probit

myprobit <- glm(depois ~ antes + politico, family = binomial(link = "probit"),

data = seqregclass)

summary(myprobit)

#modelo restrito aos funças

seqregclass.pub <- subset(seqregclass, antes=="pub")

myprobit2 <- glm(depois ~ politico, family = binomial(link = "probit"),

data = seqregclass.pub)

summary(myprobit2)