Load data and dependencies.

```
cat("\014")

rm(list=ls())
if (!require("pacman")) install.packages("pacman"); library(pacman)

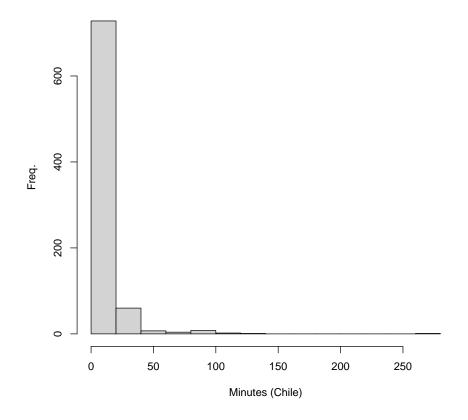
## Loading required package: pacman

load("/Users/hectorbahamonde/research/democratic_backsliding/chile_data.RData")
load("/Users/hectorbahamonde/research/democratic_backsliding/estonia_data.RData")
```

Let's see how long people take to answer the study

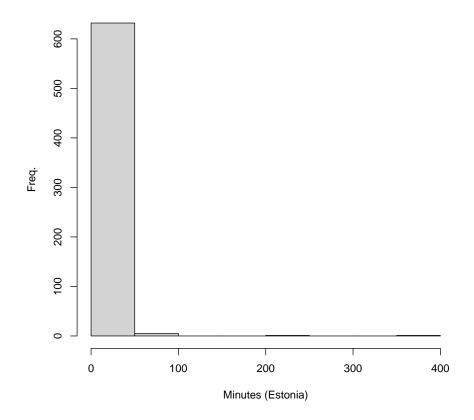
```
hist(as.numeric(dat.chile$Duration..in.seconds.)/60, ylab="Freq.", xlab="Minutes (Chile)")
```

## Histogram of as.numeric(dat.chile\$Duration..in.seconds.)/60



hist(as.numeric(dat.estonia\$Duration..in.seconds.)/60, ylab="Freq.", xlab="Minutes (Estoni

## Histogram of as.numeric(dat.estonia\$Duration..in.seconds.)/60



```
#
summary(as.numeric(dat.chile$Duration..in.seconds.))

## Min. 1st Qu. Median Mean 3rd Qu. Max.

## 165.0 363.0 494.0 721.9 750.5 15642.0

summary(as.numeric(dat.estonia$Duration..in.seconds.))

## Min. 1st Qu. Median Mean 3rd Qu. Max.

## 159.0 279.5 383.0 543.6 543.0 21682.0
```

```
table(dat.chile$Q3) # age
##
               25-34
                        35-44
##
      18-24
                                 45-54 Más de 55
        115
                 170
                          146
                                  152
                                            228
table(dat.estonia$Q3) # age
##
  18-24 25-34 35-44 45-54 Üle 55
##
## 76 134 125 115 189
```

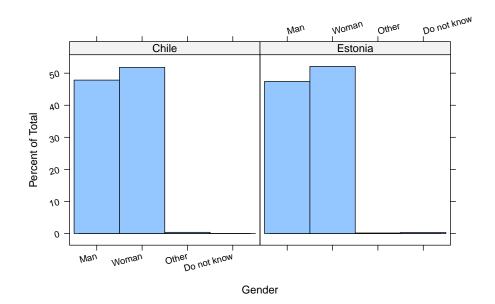
```
##
    Man Woman Other
##
    388
         420
table(dat.estonia$Q4) # gender
##
##
                   Woman Do not know
##
          303
                     333 2
# Import Data
dat.chile <- read.csv("/Users/hectorbahamonde/research/democratic_backsliding/data/Qualtri</pre>
dat.estonia <- read.csv("/Users/hectorbahamonde/research/democratic_backsliding/data/Qualt</pre>
# var names
chile.d.var.names = data.frame(
 variable.number = c(colnames(dat.chile)),
 variable.name = c(dat.chile[1,])
 )
estonia.d.var.names = data.frame(
 variable.number = c(colnames(dat.estonia)),
 variable.name = c(dat.estonia[1,])
# delete first two/three rows
dat.chile = dat.chile[-c(1, 2),]
dat.estonia = dat.estonia[-c(1, 2), ]
# sample size data
chile.sample.size = as.numeric(nrow(dat.chile))
estonia.sample.size = as.numeric(nrow(dat.estonia))
# insert country name
dat.chile$Country <- "Chile"</pre>
dat.estonia$Country <- "Estonia"</pre>
# convert all character columns to factor
#### THIS BELOW WAS CONVERTING TIME IN A WEIRD WAY
# dat.chile[sapply(dat.chile, is.character)] <- lapply(dat.chile[sapply(dat.chile, is.char
# Re-coding // Descriptive [Chile and Estonia]
# Recode Original Dataset
p_load("dplyr")
```

table(dat.chile\$Q4) # gender

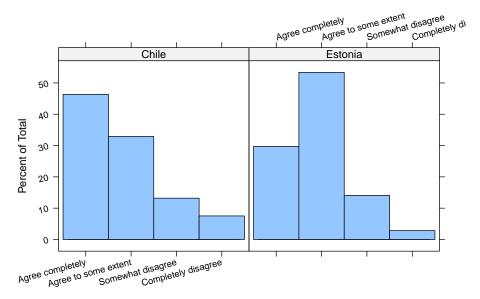
##

```
# dat.chilefGender = as.factor(dat.chilefQ4)
# Boric.Kast
dat.chile$winners.losers <- recode_factor(dat.chile$Q13,</pre>
                                           `GABRIEL BORIC FONT` = "Winner", #"Boric",
                                           `JOSÉ ANTONIO KAST RIST` = "Loser", # "Kast",
                                           `Blanco/Nulo.` = "Other", # "Other", "Null"
                                           `No voté.` = "Other", # "Other", "Didn't vote"
                                           `Prefiero no decir.` = "Other", # "Other", "Don'
                                           .ordered = TRUE)
# dat.chile <- dat.chile[ which(dat.chilefBoric.Kast=="Boric" | dat.chilefBoric.Kast == "K
# dat.chilefBoric.Kast <- droplevels(dat.chilefBoric.Kast)</pre>
# Losers / Winners (Q13)
dat.estonia$winners.losers <- recode_factor(dat.estonia$Q13,</pre>
                                             # winners
                                             `Eesti Reformierakond` = "Winner", # 113
                                             `Eesti 200` = "Winner", # 55
                                             `Sotsiaaldemokraatlik Erakond` = "Winner", # 9
                                             # losers
                                             `Eesti Keskerakond` = "Loser", # 53
                                             `Eesti Konservatiivne Rahvaerakond` = "Loser",
                                             `Isamaa Erakond` = "Loser", # 41
                                             `Eestimaa Ühendatud Vasakpartei` = "Loser",
                                             `Erakond Eestimaa Rohelised` = "Loser",
                                             `Erakond Parempoolsed` = "Loser",
                                             'Muu' = "Loser",
                                             # other
                                             `Ma ei käinud valimas` = "Other", # "Other",
                                             'Ma ei taha öelda' = "Other", # "Other",
                                             .ordered = TRUE)
## From Mart (2024)
# Winners (currently in governing coalition):
# 1. Eesti Reformierakond.
# 4. Eesti 200,
# 5. Sotsiaaldemokraatlik Erakond.
# Losers (in opposition):
# 2. Eesti Keskerakond
# 3. Eesti Konservatiivne Rahvaerakond
# 6. Isamaa Erakond
# Losers / Winners (Q13)
dat.estonia$Vote.Choice <- recode_factor(dat.estonia$Q13,</pre>
                                   `Sotsiaaldemokraatlik Erakond` = "Social Democrat
```

```
`Eesti 200` = "Estonia 200",
                                         `Eesti Keskerakond` = "Estonian Centre Party",
                                         `Eesti Konservatiivne Rahvaerakond` = "Estonian C
                                         `Eesti Reformierakond` = "Estonian Reform Party",
                                         `Eestimaa Ühendatud Vasakpartei` = "United Left P
                                         `Erakond Eestimaa Rohelised` = "Estonian Green Pa
                                         `Erakond Parempoolsed` = "Party of Right-Wingers"
                                         `Isamaa Erakond` = "Pro Patria Party",
                                         `Ma ei käinud valimas` = "I did not vote",
                                         'Ma ei taha öelda' = "I do not want to say",
                                         `Muu` = "Other",
                                         .ordered = TRUE)
# Language (Q7) // Only for Estonia data
dat.estonia$Language <- recode_factor(dat.estonia$Q7,</pre>
                                      `Eesti` = "Estonian", # 561
                                      `Mõni teine keel` = "Other", # 8
                                      #`Ukraina` = "Ukrainian", # 2
                                      `Ukraina` = "Other", # 2
                                      `Vene` = "Russian", # 68
                                      .ordered = TRUE)
# gender
dat.chile$Q4 <- recode_factor(as.factor(dat.chile$Q4), `Hombre` = "Man", `Mujer` = "Woman"
dat.estonia$Q4 <- recode_factor(as.factor(dat.estonia$Q4), `Mees` = "Man", `Naine` = "Wom
Q4.chile <- dat.chile %>% select(Q4, Country)
Q4.estonia <- dat.estonia %>% select(Q4, Country)
Q4.d <- rbind(Q4.chile, Q4.estonia)
lattice::histogram(~Q4.d$Q4 | Q4.d$Country , type = "percent", scales=list(y=list(rot=15))
```

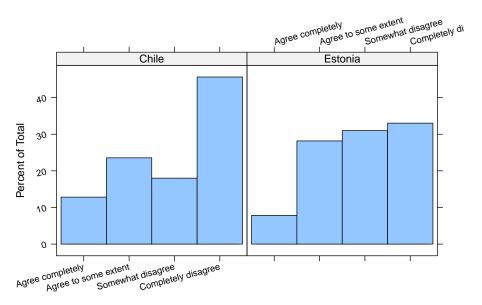


```
# Democracy might have problems but it's better...
dat.chile$Q10_1 <- recode_factor(as.factor(dat.chile$Q10_1),</pre>
                                   "Completamente de acuerdo" = "Agree completely",
                                   "Un poco de acuerdo" = "Agree to some extent",
                                   "Un poco en desacuerdo" = "Somewhat disagree",
                                   "Completamente en desacuerdo" = "Completely disagree",
                                   .ordered = TRUE)
dat.estonia$Q10_1 <- recode_factor(as.factor(dat.estonia$Q10_1),</pre>
                                     "Täiesti nõus" = "Agree completely",
                                     "Nõus" = "Agree to some extent",
                                     "Ei ole nõus" = "Somewhat disagree",
                                     "Üldse ei ole nõus" = "Completely disagree",
                                     .ordered = TRUE)
Q10_1.chile <- dat.chile %>% select(Q10_1, Country)
Q10_1.estonia <- dat.estonia %>% select(Q10_1, Country)
Q10_1.d <- rbind(Q10_1.chile, Q10_1.estonia)
lattice::histogram(~Q10_1.d$Q10_1 | Q10_1.d$Country , type = "percent", scales=list(y=list)
```



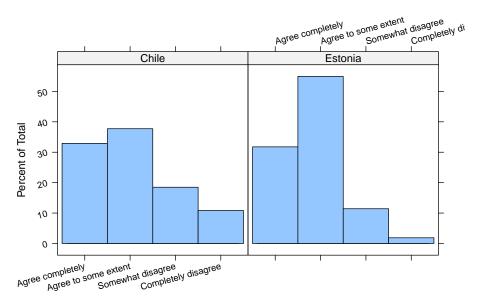
Democracy may have problems, but it is better than other forms of government.

```
\# Democracy might have problems but it's better... RECODED
dat.chile$Q10_1.r <- recode_factor(as.factor(dat.chile$Q10_1),</pre>
                                     "Agree completely" = "Agree",
                                     "Agree to some extent" = "Agree",
                                     "Somewhat disagree" = "Disagree",
                                     "Completely disagree" = "Disagree",
                                     .ordered = TRUE)
dat.estonia$Q10_1.r <- recode_factor(as.factor(dat.estonia$Q10_1),</pre>
                                       "Agree completely" = "Agree",
                                       "Agree to some extent" = "Agree",
                                       "Somewhat disagree" = "Disagree",
                                       "Completely disagree" = "Disagree",
                                       .ordered = TRUE)
# Democracy is not an effective form of government...better a strong leader
dat.chile$Q10_2 <- recode_factor(as.factor(dat.chile$Q10_2),</pre>
                                   "Completamente de acuerdo" = "Agree completely",
                                   "Un poco de acuerdo" = "Agree to some extent",
                                   "Un poco en desacuerdo" = "Somewhat disagree",
```



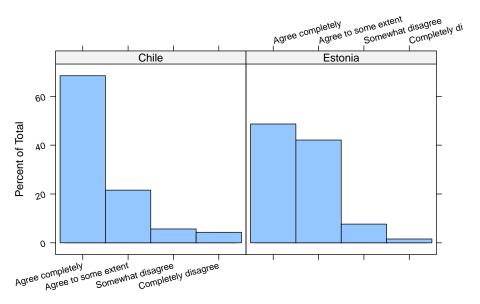
Democracy is not an efficient form of government, and it would be better for [country] to be governed by a strong leader who does not have to worry about winning elections.

```
"Somewhat disagree" = "Disagree",
                                     "Completely disagree" = "Disagree",
                                     .ordered = TRUE)
dat.estonia$Q10_2.r <- recode_factor(as.factor(dat.estonia$Q10_2),</pre>
                                      "Agree completely" = "Agree",
                                      "Agree to some extent" = "Agree",
                                      "Somewhat disagree" = "Disagree",
                                      "Completely disagree" = "Disagree",
                                      .ordered = TRUE)
# Civil rights that guarantee political protest should not be restricted
dat.chile$Q10_3 <- recode_factor(as.factor(dat.chile$Q10_3), # right to protest</pre>
                                  "Completamente de acuerdo" = "Agree completely",
                                  "Un poco de acuerdo" = "Agree to some extent",
                                  "Un poco en desacuerdo" = "Somewhat disagree",
                                  "Completamente en desacuerdo" = "Completely disagree",
                                  .ordered = TRUE)
dat.estonia$Q10_3 <- recode_factor(as.factor(dat.estonia$Q10_3), # right to protest
                                    "Täiesti nõus" = "Agree completely",
                                    "Nõus" = "Agree to some extent",
                                     "Ei ole nõus" = "Somewhat disagree",
                                    "Üldse ei ole nõus" = "Completely disagree",
                                    .ordered = TRUE)
Q10_3.chile <- dat.chile %>% select(Q10_3, Country)
Q10_3.estonia <- dat.estonia %>% select(Q10_3, Country)
Q10_3.d <- rbind(Q10_3.chile, Q10_3.estonia)
lattice::histogram(~Q10_3.d$Q10_3 | Q10_3.d$Country , type = "percent", scales=list(y=list)
                   xlab = "Civil rights that guarantee political protest should not be res
```



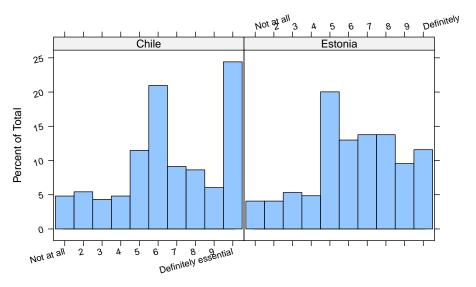
Civil rights that guarantee political protest should not be restricted.

```
# Civil rights that guarantee political protest should not be restricted... RECODED
dat.chile$Q10_3.r <- recode_factor(as.factor(dat.chile$Q10_3), # right to protest
                                  "Agree completely" = "Agree",
                                  "Agree to some extent" = "Agree",
                                  "Somewhat disagree" = "Disagree",
                                  "Completely disagree" = "Disagree",
                                  .ordered = TRUE)
dat.estonia$Q10_3.r <- recode_factor(as.factor(dat.estonia$Q10_3), # right to protest
                                    "Agree completely" = "Agree",
                                    "Agree to some extent" = "Agree",
                                    "Somewhat disagree" = "Disagree",
                                    "Completely disagree" = "Disagree",
                                    .ordered = TRUE)
# It is important that there are free and politically independent media in [country]
dat.chile$Q10_4 <- recode_factor(as.factor(dat.chile$Q10_4),</pre>
                                  "Completamente de acuerdo" = "Agree completely",
                                  "Un poco de acuerdo" = "Agree to some extent",
                                  "Un poco en desacuerdo" = "Somewhat disagree",
```



It is important that there are free and politically independent media in [country].

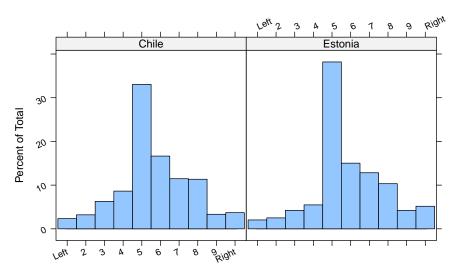
```
"Somewhat disagree" = "Disagree",
                                  "Completely disagree" = "Disagree",
                                  .ordered = TRUE)
dat.estonia$Q10_4.r <- recode_factor(as.factor(dat.estonia$Q10_4),</pre>
                                    "Agree completely" = "Agree",
                                    "Agree to some extent" = "Agree",
                                    "Somewhat disagree" = "Disagree",
                                    "Completely disagree" = "Disagree",
                                    .ordered = TRUE)
# Governments should tax the rich to help the poor
dat.chile$Q12_1 = recode_factor(as.factor(dat.chile$Q12_1),
              "1" = "Not at all",
              "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"="8", "9"="9".
              "10" = "Definitely essential",
              .ordered = TRUE)
dat.estonia$Q12_1 = recode_factor(as.factor(dat.estonia$Q12_1),
                                  "1" = "Not at all",
                                  "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8
                                  "10" = "Definitely essential",
                                  .ordered = TRUE)
Q12_1.chile <- dat.chile %>% select(Q12_1, Country)
Q12_1.estonia <- dat.estonia %>% select(Q12_1, Country)
Q12_1.d <- rbind(Q12_1.chile, Q12_1.estonia)
lattice::histogram(~Q12_1.d$Q12_1 | Q12_1.d$Country , type = "percent", scales=list(y=lis
                  xlab = "Governments should tax the rich to help the poor\nAn essential
```



Governments should tax the rich to help the poor An essential characteristic of democracy...

```
# Governments should tax the rich to help the poor... RECODED
dat.chile$Q12_1.r = recode_factor(as.factor(dat.chile$Q12_1),
                                "Not at all" = "Not essential",
                                "2" = "Not essential",
                                "3" = "Not essential",
                                "4" = "Not essential",
                                "5" = "Intermediate",
                                "6" = "Intermediate",
                                "7" = "Definitely essential",
                                "8" = "Definitely essential",
                                 "9" = "Definitely essential",
                                "Definitely essential" = "Definitely essential",
                                 .ordered = TRUE)
dat.estonia$Q12_1.r = recode_factor(as.factor(dat.estonia$Q12_1),
                                     "Not at all" = "Not essential",
                                     "2" = "Not essential",
                                     "3" = "Not essential",
                                     "4" = "Not essential",
                                     "5" = "Intermediate",
```

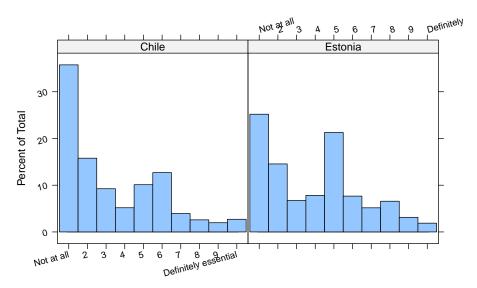
```
"6" = "Intermediate",
                                    "7" = "Definitely essential",
                                    "8" = "Definitely essential",
                                    "9" = "Definitely essential",
                                    "Definitely essential" = "Definitely essential",
                                    .ordered = TRUE)
# Thinking on a scale where one means far left and ten means far right, where do you place
dat.chile$Q8_1 = recode_factor(as.factor(dat.chile$Q8_1),
                                "1" = "Left",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Right",
                                .ordered = TRUE)
dat.estonia$Q8_1 = recode_factor(as.factor(dat.estonia$Q8_1),
                               "1" = "Left",
                               "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"="
                               "10" = "Right",
                               .ordered = TRUE)
Q8_1.chile <- dat.chile %>% select(Q8_1, Country)
Q8_1.estonia <- dat.estonia %>% select(Q8_1, Country)
Q8_1.d <- rbind(Q8_1.chile, Q8_1.estonia)
lattice::histogram(~Q8_1.d$Q8_1 | Q8_1.d$Country , type = "percent", scales=list(y=list(r
                  xlab = "Thinking on a scale where one means far left and ten means far
```



Thinking on a scale where one means far left and ten means far right, where do you place yourself?

```
# Thinking on a scale where one means far left and ten means far right, where do you place
dat.chile$Q8_1.r = recode_factor(as.factor(dat.chile$Q8_1),
                                  "Not at all" = "Left",
                                  "2" = "Left",
                                  "3" = "Left",
                                  "4" = "Left",
                                  "5" = "Center",
                                  "6" = "Center",
                                  "7" = "Right",
                                  "8" = "Right",
                                  "9" = "Right",
                                  "Right" = "Right",
                                  .ordered = TRUE)
dat.estonia$Q8_1.r = recode_factor(as.factor(dat.estonia$Q8_1),
                                    "Not at all" = "Left",
                                    "2" = "Left",
                                    "3" = "Left",
                                    "4" = "Left",
                                    "5" = "Center",
```

```
"6" = "Center",
                                   "7" = "Right",
                                   "8" = "Right",
                                   "9" = "Right",
                                   "Right" = "Right",
                                   .ordered = TRUE)
# Religious authorities have the final say in interpreting the country's laws.
dat.chile$Q12_2 = recode_factor(as.factor(dat.chile$Q12_2),
                                  "1" = "Not at all",
                                  "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8
                                  "10" = "Definitely essential",
                                  .ordered = TRUE)
dat.estonia$Q12_2 = recode_factor(as.factor(dat.estonia$Q12_2),
                                "1" = "Not at all",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Definitely essential",
                                .ordered = TRUE)
Q12_2.chile <- dat.chile %>% select(Q12_2, Country)
Q12_2.estonia <- dat.estonia %>% select(Q12_2, Country)
Q12_2.d <- rbind(Q12_2.chile, Q12_2.estonia)
lattice::histogram(~Q12_2.d$Q12_2 | Q12_2.d$Country , type = "percent", scales=list(y=list)
                   xlab = "Religious authorities have the final say in interpreting the co
```

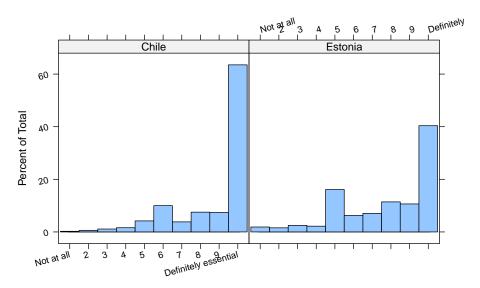


Religious authorities have the final say in interpreting the country's laws.

An essential characteristic of democracy...

```
# Religious authorities have the final say in interpreting the country's laws... RECODED
dat.chile$Q12_2.r = recode_factor(as.factor(dat.chile$Q12_2),
                                "Not at all" = "Not essential",
                                "2" = "Not essential",
                                "3" = "Not essential",
                                "4" = "Not essential",
                                "5" = "Intermediate",
                                 "6" = "Intermediate",
                                "7" = "Definitely essential",
                                "8" = "Definitely essential",
                                 "9" = "Definitely essential",
                                "Definitely essential" = "Definitely essential",
                                 .ordered = TRUE)
dat.estonia$Q12_2.r = recode_factor(as.factor(dat.estonia$Q12_2),
                                  "Not at all" = "Not essential",
                                  "2" = "Not essential",
                                  "3" = "Not essential",
                                  "4" = "Not essential",
                                  "5" = "Intermediate",
```

```
"6" = "Intermediate",
                                  "7" = "Definitely essential",
                                  "8" = "Definitely essential",
                                  "9" = "Definitely essential",
                                  "Definitely essential" = "Definitely essential",
                                  .ordered = TRUE)
# The people should choose their leaders in free elections.
dat.chile$Q12_3 = recode_factor(as.factor(dat.chile$Q12_3),
                                "1" = "Not at all",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Definitely essential",
                                .ordered = TRUE)
dat.estonia$Q12_3 = recode_factor(as.factor(dat.estonia$Q12_3),
                                  "1" = "Not at all",
                                  "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8
                                  "10" = "Definitely essential",
                                  .ordered = TRUE)
Q12_3.chile <- dat.chile %>% select(Q12_3, Country)
Q12_3.estonia <- dat.estonia %>% select(Q12_3, Country)
Q12_3.d <- rbind(Q12_3.chile, Q12_3.estonia)
lattice::histogram(~Q12_3.d$Q12_3 | Q12_3.d$Country , type = "percent", scales=list(y=list)
                   xlab = "The people should choose their leaders in free elections.\nAn e
```

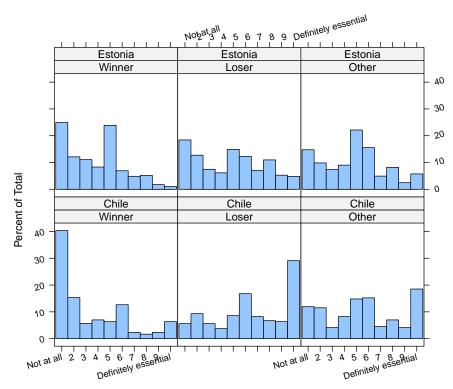


The people should choose their leaders in free elections.

An essential characteristic of democracy...

```
# The people should choose their leaders in free elections... RECODED
dat.chile$Q12_3.r = recode_factor(as.factor(dat.chile$Q12_3),
                                  "Not at all" = "Not essential",
                                  "2" = "Not essential",
                                  "3" = "Not essential",
                                  "4" = "Not essential",
                                  "5" = "Intermediate",
                                  "6" = "Intermediate",
                                  "7" = "Definitely essential",
                                  "8" = "Definitely essential",
                                  "9" = "Definitely essential",
                                  "Definitely essential" = "Definitely essential",
                                 .ordered = TRUE)
dat.estonia$Q12_3.r = recode_factor(as.factor(dat.estonia$Q12_3),
                                     "Not at all" = "Not essential",
                                     "2" = "Not essential",
                                     "3" = "Not essential",
                                     "4" = "Not essential",
                                     "5" = "Intermediate",
```

```
"6" = "Intermediate",
                                    "7" = "Definitely essential",
                                    "8" = "Definitely essential",
                                    "9" = "Definitely essential",
                                    "Definitely essential" = "Definitely essential",
                                  .ordered = TRUE)
# The Army should take control of the state when the Government is not functioning well.
dat.chile$Q12_5 = recode_factor(as.factor(dat.chile$Q12_5),
                                "1" = "Not at all",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Definitely essential",
                                .ordered = TRUE)
dat.estonia$Q12_5 = recode_factor(as.factor(dat.estonia$Q12_5),
                                  "1" = "Not at all",
                                  "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8
                                  "10" = "Definitely essential",
                                  .ordered = TRUE)
Q12_5.chile <- dat.chile %>% select(Q12_5, Country, winners.losers)
Q12_5.estonia <- dat.estonia %>% select(Q12_5, Country, winners.losers)
Q12_5.d <- rbind(Q12_5.chile, Q12_5.estonia)
lattice::histogram(~Q12_5.d$Q12_5 | Q12_5.d$winners.losers * Q12_5.d$Country, type = "per
                   xlab = "The Army should take control of the state when the Government i
```

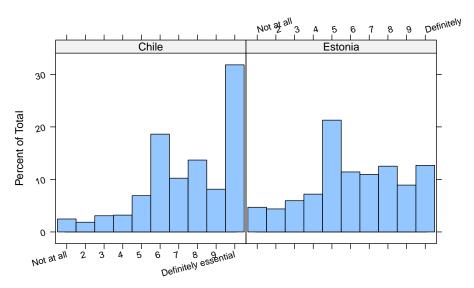


The Army should take control of the state when the Government is not functioning well.

An essential characteristic of democracy...

```
# The Army should take control of the state when the Government is not functioning well...
dat.chile$Q12_5.r = recode_factor(as.factor(dat.chile$Q12_5),
                                "Not at all" = "Not essential",
                                 "2" = "Not essential",
                                "3" = "Not essential",
                                "4" = "Not essential",
                                "5" = "Intermediate",
                                "6" = "Intermediate",
                                "7" = "Definitely essential",
                                "8" = "Definitely essential",
                                 "9" = "Definitely essential",
                                "Definitely essential" = "Definitely essential",
                                 .ordered = TRUE)
dat.estonia$Q12_5.r = recode_factor(as.factor(dat.estonia$Q12_5),
                                     "Not at all" = "Not essential",
                                     "2" = "Not essential",
                                     "3" = "Not essential",
                                     "4" = "Not essential",
                                     "5" = "Intermediate",
```

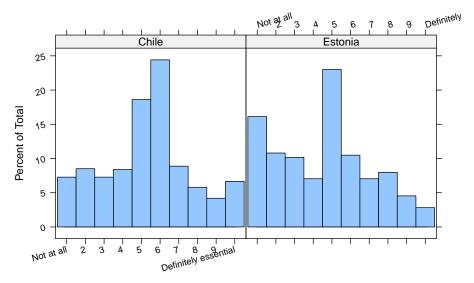
```
"6" = "Intermediate",
                                    "7" = "Definitely essential",
                                    "8" = "Definitely essential",
                                    "9" = "Definitely essential",
                                    "Definitely essential" = "Definitely essential",
                                  .ordered = TRUE)
# The state should ensure that wages are more equal.
dat.chile$Q12_7 = recode_factor(as.factor(dat.chile$Q12_7),
                                "1" = "Not at all",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Definitely essential",
                                .ordered = TRUE)
dat.estonia$Q12_7 = recode_factor(as.factor(dat.estonia$Q12_7),
                                "1" = "Not at all",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Definitely essential",
                                .ordered = TRUE)
Q12_7.chile <- dat.chile %>% select(Q12_7, Country)
Q12_7.estonia <- dat.estonia %>% select(Q12_7, Country)
Q12_7.d <- rbind(Q12_7.chile, Q12_7.estonia)
lattice::histogram(~Q12_7.d$Q12_7 | Q12_7.d$Country , type = "percent", scales=list(y=list)
                   xlab = "The state should ensure that wages are more equal.\nAn essentia
```



The state should ensure that wages are more equal.

An essential characteristic of democracy...

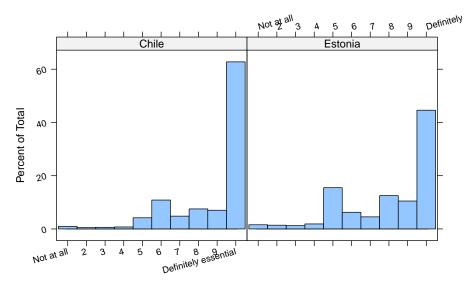
```
# People should always obey their rulers.
dat.chile$Q12_8 = recode_factor(as.factor(dat.chile$Q12_8),
                                "1" = "Not at all",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Definitely essential",
                                .ordered = TRUE)
dat.estonia$Q12_8 = recode_factor(as.factor(dat.estonia$Q12_8),
                                  "1" = "Not at all",
                                  "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8
                                  "10" = "Definitely essential",
                                  .ordered = TRUE)
Q12_8.chile <- dat.chile %>% select(Q12_8, Country)
Q12_8.estonia <- dat.estonia %>% select(Q12_8, Country)
Q12_8.d <- rbind(Q12_8.chile, Q12_8.estonia)
lattice::histogram(~Q12_8.d$Q12_8 | Q12_8.d$Country , type = "percent", scales=list(y=lis
                   xlab = "People should always obey their rulers.\nAn essential character
```



People should always obey their rulers. An essential characteristic of democracy...

```
# People should always obey their rulers... RECODED
dat.chile$Q12_8.r = recode_factor(as.factor(dat.chile$Q12_8),
                                  "Not at all" = "Not essential",
                                  "2" = "Not essential",
                                  "3" = "Not essential",
                                  "4" = "Not essential",
                                  "5" = "Intermediate",
                                  "6" = "Intermediate",
                                  "7" = "Definitely essential",
                                  "8" = "Definitely essential",
                                  "9" = "Definitely essential",
                                  "Definitely essential" = "Definitely essential",
                                  .ordered = TRUE)
dat.estonia$Q12_8.r = recode_factor(as.factor(dat.estonia$Q12_8),
                                     "Not at all" = "Not essential",
                                     "2" = "Not essential",
                                     "3" = "Not essential",
                                     "4" = "Not essential",
                                     "5" = "Intermediate",
```

```
"6" = "Intermediate",
                                    "7" = "Definitely essential",
                                    "8" = "Definitely essential",
                                    "9" = "Definitely essential",
                                    "Definitely essential" = "Definitely essential",
                                    .ordered = TRUE)
# Women should have the same rights as men.
dat.chile$Q12_9 = recode_factor(as.factor(dat.chile$Q12_9),
                                "1" = "Not at all",
                                "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8"=
                                "10" = "Definitely essential",
                                .ordered = TRUE)
dat.estonia$Q12_9 = recode_factor(as.factor(dat.estonia$Q12_9),
                                  "1" = "Not at all",
                                  "2"="2", "3"="3", "4"="4", "5"="5", "6"="6", "7"="7", "8
                                  "10" = "Definitely essential",
                                  .ordered = TRUE)
Q12_9.chile <- dat.chile %>% select(Q12_9, Country)
Q12_9.estonia <- dat.estonia %>% select(Q12_9, Country)
Q12_9.d <- rbind(Q12_9.chile, Q12_9.estonia)
lattice::histogram(~Q12_9.d$Q12_9 | Q12_9.d$Country , type = "percent", scales=list(y=list)
                   xlab = "Women should have the same rights as men.\nAn essential charact
```



Women should have the same rights as men. An essential characteristic of democracy...

```
# Income Low/Mid/High
dat.chile$IncomeLowMidHigh <- recode_factor(</pre>
  dat.chile$Q6,
  `Menos de $35.000 mensuales liquidos` = "Low",
  `De $35.001 a $75.000 mensuales liquidos` = "Low",
  `De $75.001 a $110.000 mensuales liquidos` = "Low",
  `De $110.001 a $150.000 mensuales liquidos ` = "Low",
  `De $150.001 a $225.000 mensuales liquidos` = "Low",
  De $225.001 a $350.000 mensuales liquidos = "Low",
  De $350.001 a $450.000 mensuales liquidos = "Mid",
  `De $450.001 a $550.000 mensuales liquidos` = "Mid",
  `De $550.001 a $700.000 mensuales liquidos` = "Mid",
  `De $700.001 a $1.000.000 mensuales liquidos` = "Mid",
  `De $1000.001 a $2.000.000 mensuales liquidos` = "Mid",
  De $2.000.001 a $3.000.000 mensuales liquidos = "High",
  `De $3.000.001 a $4.500.000 mensuales liquidos` = "High",
  `Más de $4.500.000 mensuales liquidos` = "High",
  `No sabe / No contesta` = "Don't know",
  .ordered = TRUE)
```

```
dat.estonia$IncomeLowMidHigh <- recode_factor(dat.estonia$Q6,</pre>
                                             ^{\circ}0-699^{\circ} = "Low",
                                             700-1099 = "Low".
                                             `1100-1399` = "Mid",
                                             `1400-1699` = "Mid",
                                             `1700-1999` = "Mid",
                                             2000-2299 = "Mid",
                                             2300-2899 = "High",
                                             2900-3499 = "High",
                                             3500-4199 = "High",
                                             `Rohkem kui 4200` = "High",
                                             .ordered = TRUE)
# Age young/old
dat.chile$Q3_young_old <- recode_factor(dat.chile$Q3,</pre>
                                         18-24 = "Young",
                                         25-34 = "01d",
                                         `35-44` = "Old", # ouch...
                                         ^{45-54} = "01d",
                                         `Más de 55` = "Old",
                                         .ordered = TRUE
dat.estonia$Q3_young_old <- recode_factor(dat.estonia$Q3,</pre>
                                           18-24 = "Young",
                                           25-34 = "01d",
                                           35-44 = "Old", # ouch...
                                           ^{45-54} = "01d",
                                           `Üle 55` = "Old",
                                           .ordered = TRUE)
# Education High/Low
dat.chile$Educ.HighLow <- recode_factor(</pre>
  dat.chile$Q5,
  Menos que educación básica (menos que octavo básico). = "Low",
  `Educación básica completa (hasta octavo básico).` = "Low",
  `Educación media completa.` = "Low",
  `Educación técnico-profesional completa.` = "Mid.",
  `Educación universitaria completa.` = "High",
 `Magister o Doctorado completo.` = "High",
 `Otro/Prefiero no decir` = "Other",
  .ordered = TRUE)
dat.estonia$Educ.HighLow <- recode_factor(</pre>
  dat.estonia$Q5,
  `Põhiariduseta` = "Low", # "Without primary education"
 `Põhiharidus` = "Low", # "Primary education"
 `Keskharidus` = "Low", # "Secondary education"
 `Kutseharidus` = "Mid.", # "Vocational education"
```

```
`Ülikooli bakalaureusekraad (3-4 aastat õpinguid)` = "High", # "University Bachelor's de
 `Magistri- või doktorikraad` = "High", # "Master's or Doctorate degree"
 `Ei tea` = "Other", # "Don't know"
  `Muu` = "Other", # "Other"
  .ordered = TRUE)
table(dat.chile$Educ.HighLow)
##
##
    Low Mid. High Other
   210 236 355 10
table(dat.estonia$Educ.HighLow)
##
##
    Low Mid. High Other
   207 135 294
# generate id variable
dat.chile$respondent = 1:nrow(dat.chile)
dat.chile <- dat.chile %>% select(respondent, everything()) # reorder
dat.estonia$respondent = 1:nrow(dat.estonia)
dat.estonia <- dat.estonia %>% select(respondent, everything()) # reorder
# summary stats demographics
p_load(vtable,kableExtra)
vars = c('Q3', \# Age)
        'Q4', # Gender
        'Q5', # Educ
        'Q6' # Income
labs <- c('Age',</pre>
         'Gender',
         'Education',
         'Income')
# save dataset
save(dat.chile, file = "/Users/hectorbahamonde/research/democratic_backsliding/chile_data.
save(dat.estonia, file = "/Users/hectorbahamonde/research/democratic_backsliding/estonia_d
## --
# Conjoint Data Prep [Estonia]
cat("\014")
```

```
rm(list=ls())
setwd("/Users/hectorbahamonde/research/democratic_backsliding/")
if (!require("pacman")) install.packages("pacman"); library(pacman)
# Load Data
load("/Users/hectorbahamonde/research/democratic_backsliding/estonia_data.RData") # Load d
# name structure is = [4 features][h tasks][2 candidates]
# rename
p_load("dplyr")
dat.estonia <- dat.estonia %>%
  rename(
    # features
    "feature1a1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.1.1_CBCONJOINT",
    "feature2a1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.1.1_CBCONJOINT",
    "feature3a1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.1.1_CBCONJOINT",
    "feature4a1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.1.1_CBCONJOINT",
    "feature1a2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.1.2_CBCONJOINT",
    "feature2a2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.1.2_CBCONJOINT",
    "feature3a2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.1.2_CBCONJOINT",
    "feature4a2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.1.2_CBCONJOINT",
    "feature1b1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.2.1_CBCONJOINT",
    "feature2b1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.2.1_CBCONJOINT",
    "feature3b1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.2.1_CBCONJOINT",
    "feature4b1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.2.1_CBCONJOINT",
    "feature1b2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.2.2_CBCONJOINT",
    "feature2b2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.2.2_CBCONJOINT",
    "feature3b2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.2.2_CBCONJOINT",
    "feature4b2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.2.2_CBCONJOINT",
    "feature1c1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.3.1_CBCONJOINT",
    "feature2c1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.3.1_CBCONJOINT",
    "feature3c1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.3.1_CBCONJOINT",
    "feature4c1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.3.1_CBCONJOINT",
    "feature1c2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.3.2_CBCONJOINT",
    "feature2c2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.3.2_CBCONJOINT",
    "feature3c2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.3.2_CBCONJOINT",
    "feature4c2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.3.2_CBCONJOINT",
    "feature1d1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.4.1_CBCONJOINT",
    "feature2d1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.4.1_CBCONJOINT",
    "feature3d1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.4.1_CBCONJOINT",
    "feature4d1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.4.1_CBCONJOINT",
    "feature1d2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.4.2_CBCONJOINT",
    "feature2d2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.4.2_CBCONJOINT",
    "feature3d2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.4.2_CBCONJOINT",
    "feature4d2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.4.2_CBCONJOINT",
```

"feature1e1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.5.1\_CBCONJOINT",

```
"feature2e1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.5.1_CBCONJOINT",
    "feature3e1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.5.1_CBCONJOINT",
    "feature4e1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.5.1_CBCONJOINT",
    "feature1e2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.5.2 CBCONJOINT".
    "feature2e2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.5.2_CBCONJOINT",
    "feature3e2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.5.2_CBCONJOINT",
    "feature4e2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.5.2_CBCONJOINT",
    "feature1f1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.6.1_CBCONJOINT",
    "feature2f1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.6.1_CBCONJOINT",
    "feature3f1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.6.1_CBCONJOINT",
    "feature4f1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.6.1_CBCONJOINT",
    "feature1f2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.6.2_CBCONJOINT",
    "feature2f2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.6.2_CBCONJOINT",
    "feature3f2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.6.2_CBCONJOINT",
    "feature4f2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.6.2_CBCONJOINT",
    "feature1g1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.7.1_CBCONJOINT",
    "feature2g1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.7.1_CBCONJOINT",
    "feature3g1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.7.1_CBCONJOINT",
    "feature4g1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.7.1_CBCONJOINT",
    "feature1g2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.7.2_CBCONJOINT",
    "feature2g2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.7.2_CBCONJOINT",
    "feature3g2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.7.2_CBCONJOINT",
    "feature4g2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.7.2_CBCONJOINT",
    "feature1h1" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.8.1_CBCONJOINT",
    "feature2h1" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.8.1_CBCONJOINT",
    "feature3h1" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.8.1_CBCONJOINT",
    "feature4h1" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.8.1_CBCONJOINT",
    "feature1h2" = "d2796cd0.1d9f.4eb0.ba54.81aa3835a25f.8.2_CBCONJOINT",
    "feature2h2" = "X33b5bd0f.eaf2.4b73.8859.ff542e570638.8.2_CBCONJOINT",
    "feature3h2" = "X6965f897.4fef.400d.b747.aa7fd2ab1dc6.8.2_CBCONJOINT",
    "feature4h2" = "X567734f3.ac66.4120.a1a8.ee68b0db61a4.8.2_CBCONJOINT",
    # choice
    "choice_a" = "C1",
    "choice_b" = "C2",
    "choice_c" = "C3",
    "choice_d" = "C4",
    "choice_e" = "C5"
    "choice_f" = "C6"
    "choice_g" = "C7"
    "choice_h" = "C8")
# keep conjoint columns
conjoint.d.estonia <- dat.estonia %>% dplyr:: select(grep("feature", names(dat.estonia)),
                                                     grep("respondent", names(dat.estonia)
                                                     grep("choice", names(dat.estonia)))
# CREGGG Approach
p_load(cregg,dplyr)
# https://thomasleeper.com/creqq/
```

```
# https://thomasleeper.com/cregg/reference/cj_tidy.html#examples
# "If a variable in the original format records which of the two profiles was chosen (e.g.
## profile_variables
list1 <- list(</pre>
  feature1 = list( # feature 1
   names(conjoint.d.estonia)[grep("^feature1.{1}1", names(conjoint.d.estonia))],
   names(conjoint.d.estonia)[grep("^feature1.{1}2", names(conjoint.d.estonia))]
 ),
 feature2 = list(# feature 2
   names(conjoint.d.estonia)[grep("^feature2.{1}1", names(conjoint.d.estonia))],
   names(conjoint.d.estonia)[grep("^feature2.{1}2", names(conjoint.d.estonia))]
 feature3 = list(# feature 3
   names(conjoint.d.estonia)[grep("^feature3.{1}1", names(conjoint.d.estonia))],
   names(conjoint.d.estonia)[grep("^feature3.{1}2", names(conjoint.d.estonia))]
 ),
 feature4 = list(# feature 4
   names(conjoint.d.estonia)[grep("^feature4.{1}1", names(conjoint.d.estonia))],
   names(conjoint.d.estonia)[grep("^feature4.{1}2", names(conjoint.d.estonia))]
# task variables
list2 <- list(choice = paste0("choice_", letters[1:8]))</pre>
# perform reshape
conjoint.d.estonia <- cj_tidy(conjoint.d.estonia,</pre>
                              profile_variables = list1,
                              task_variables = list2,
                              id = ~ respondent)
# checking (if nothing happens, it's true)
# stopifnot(nrow(conjoint.d.estonia) == nrow(dat.estonia) *8 *2) # 8 tasks and 2 candidates
# recode outcome so it is coded sensibly
conjoint.d.estonia$chosen <- ifelse((conjoint.d.estonia$profile == "A" & conjoint.d.estoni
                                       (conjoint.d.estonia$profile == "B" & conjoint.d.esto
# rename features
# p_load("dplyr")
conjoint.d.estonia <- conjoint.d.estonia %>%
 rename("attr.Gender" = "feature1",
         "attr.Age" = "feature2",
         "attr.Protest" = "feature3",
         "attr.Pensions" = "feature4")
# features to factor
```

```
conjoint.d.estonia$attr.Gender = as.factor(conjoint.d.estonia$attr.Gender)
conjoint.d.estonia$attr.Age = as.factor(conjoint.d.estonia$attr.Age)
conjoint.d.estonia$attr.Protest = as.factor(conjoint.d.estonia$attr.Protest)
conjoint.d.estonia$attr.Pensions = as.factor(conjoint.d.estonia$attr.Pensions)
conjoint.d.estonia$attr.Gender <- recode_factor(</pre>
  conjoint.d.estonia$attr.Gender,
  `Mees` = "Man",
 `Naine` = "Woman")
## Age
conjoint.d.estonia$attr.Age <- recode_factor(conjoint.d.estonia$attr.Age,</pre>
                                              `Alla 35` = "Younger than 35 years old",
                                              35-50 = "Between 35-50 years old",
                                              `Üle 50` = "Over 50 years old")
## Protest
conjoint.d.estonia$attr.Protest <- recode_factor(</pre>
  conjoint.d.estonia$attr.Protest,
  `Kandidaat TOETAB meeleavaldusi tänavatel praeguse valitsuse destabiliseerimiseks.` =
    "The candidate SUPPORTS anti-government protest\nthat will seek to de-destabilize the
  `Kandidaat ON VASTU meeleavaldustele tänavatel praeguse valitsuse destabiliseerimiseks.`
    "The candidate OPPOSES anti-government protest\nthat will seek to de-destabilize the c
## Pensions
conjoint.d.estonia$attr.Pensions <- recode_factor(</pre>
  conjoint.d.estonia$attr.Pensions,
  `Kandidaat TOETAB pensionite tõstmist.` =
    "The candidate SUPPORTS increases in pensions for the elderly",
  `Kandidaat ON VASTU pensionite tõstmisele.` =
    "The candidate OPPOSES increases in pensions for the elderly")
####################################
# MERGING WITH LARGER DATASET [Estonia]
####################################
# Q10_1 # Democracy might have problems but it's better...
# Q10_2 # Democracy is not an effective form of government...better a strong leader
# Q10_3 # Civil rights that quarantee political protest should not be restricted
# Q10_4 # It is important that there are free and politically independent media in [countr
\# Q12_1 \# Governments should tax the rich to help the poor
\# Q8_1 \# Thinking on a scale where one means far left and ten means far right, where do yo
# Q12_2 # Religious authorities have the final say in interpreting the country's laws.
# Q12_3 # The people should choose their leaders in free elections.
# Q12_5 # The Army should take control of the state when the Government is not functioning
# Q12_7 # The state should ensure that wages are more equal.
# Q12_8 # People should always obey their rulers.
```

# Q12\_9 # Women should have the same rights as men.

```
# IncomeLowMidHigh # Income Low/Mid/High
# Q3_young_old # Age young/old
# Educ.HighLow # Education High/Low
# Vote.Choice
# Language
# subset vars from the big dataset to be merged to the conjoint dataset
dat.subset.estonia = dat.estonia %>% dplyr::select(
 respondent,
 winners.losers,
 Q10_1, Q10_1.r, Q10_2, Q10_2.r, Q10_3, Q10_3.r, Q10_4, Q10_4.r, Q12_1, Q12_1.r, Q8_1, Q8
 Q12_7, Q12_8, Q12_8.r, Q12_9, IncomeLowMidHigh, Q3_young_old, Educ.HighLow,
 Vote. Choice, Language
# Merge
conjoint.d.estonia = merge(dat.subset.estonia, conjoint.d.estonia, by.x = "respondent")
# Conjoint Data Prep [Chile]
#cat("\014")
#rm(list=ls())
#setwd("/Users/hectorbahamonde/research/democratic_backslidinq/")
if (!require("pacman")) install.packages("pacman"); library(pacman)
# Load Data
load("/Users/hectorbahamonde/research/democratic_backsliding/chile_data.RData") # Load dat
## ---- conjoint:prep ----
# name structure is = [4 features][h tasks][2 candidates]
# rename
p_load("dplyr")
dat.chile <- dat.chile %>%
 rename(
   # features
   "feature1a1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.1.1_CBCONJOINT"
   "feature2a1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.1.1_CBCONJOINT"
   "feature3a1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.1.1_CBCONJOINT" ,
   "feature4a1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.1.1_CBCONJOINT" ,
   "feature1a2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.1.2_CBCONJOINT"
   "feature2a2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.1.2_CBCONJOINT" ,
   "feature3a2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.1.2_CBCONJOINT",
   "feature4a2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.1.2_CBCONJOINT",
```

```
"feature1b1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.2.1_CBCONJOINT"
"feature2b1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.2.1_CBCONJOINT" ,
"feature3b1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.2.1_CBCONJOINT" ,
"feature4b1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.2.1_CBCONJOINT" ,
"feature1b2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.2.2_CBCONJOINT",
"feature2b2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.2.2_CBCONJOINT" ,
"feature3b2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.2.2_CBCONJOINT"
"feature4b2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.2.2_CBCONJOINT",
"feature1c1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.3.1_CBCONJOINT" ,
"feature2c1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.3.1_CBCONJOINT" ,
"feature3c1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.3.1_CBCONJOINT" ,
"feature4c1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.3.1_CBCONJOINT"
"feature1c2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.3.2_CBCONJOINT" ,
"feature2c2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.3.2_CBCONJOINT",
"feature3c2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.3.2_CBCONJOINT"
"feature4c2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.3.2_CBCONJOINT" ,
"feature1d1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.4.1_CBCONJOINT" ,
"feature2d1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.4.1_CBCONJOINT" ,
"feature3d1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.4.1_CBCONJOINT" ,
"feature4d1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.4.1_CBCONJOINT"
"feature1d2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.4.2_CBCONJOINT" ,
"feature2d2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.4.2_CBCONJOINT" ,
"feature3d2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.4.2_CBCONJOINT"
"feature4d2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.4.2_CBCONJOINT",
"feature1e1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.5.1_CBCONJOINT" ,
"feature2e1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.5.1_CBCONJOINT",
"feature3e1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.5.1_CBCONJOINT",
"feature4e1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.5.1_CBCONJOINT"
"feature1e2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.5.2_CBCONJOINT" ,
"feature2e2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.5.2_CBCONJOINT" ,
"feature3e2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.5.2_CBCONJOINT" ,
"feature4e2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.5.2_CBCONJOINT" ,
"feature1f1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.6.1_CBCONJOINT" ,
"feature2f1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.6.1_CBCONJOINT" ,
"feature3f1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.6.1_CBCONJOINT"
"feature4f1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.6.1_CBCONJOINT"
"feature1f2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.6.2_CBCONJOINT",
"feature2f2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.6.2_CBCONJOINT"
"feature3f2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.6.2_CBCONJOINT"
"feature4f2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.6.2_CBCONJOINT",
"feature1g1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.7.1_CBCONJOINT" ,
"feature2g1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.7.1_CBCONJOINT" ,
"feature3g1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.7.1_CBCONJOINT" ,
"feature4g1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.7.1_CBCONJOINT"
"feature1g2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.7.2_CBCONJOINT" ,
"feature2g2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.7.2_CBCONJOINT",
"feature3g2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.7.2_CBCONJOINT" ,
"feature4g2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.7.2_CBCONJOINT",
"feature1h1" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.8.1_CBCONJOINT",
```

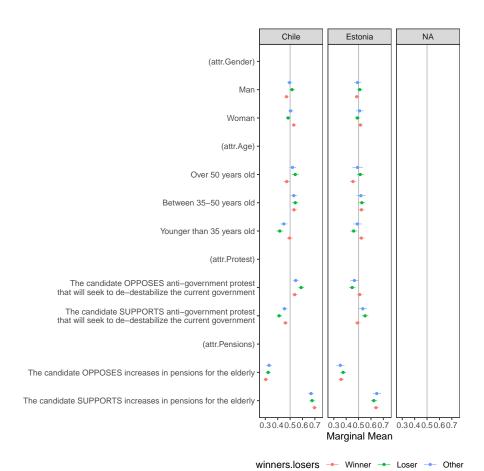
```
"feature2h1" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.8.1_CBCONJOINT"
    "feature3h1" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.8.1_CBCONJOINT"
    "feature4h1" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.8.1_CBCONJOINT",
    "feature1h2" = "X13773a6d.7567.418e.9a54.5ed4a9e1be74.8.2_CBCONJOINT",
    "feature2h2" = "X5e2374ad.f827.494e.ae28.c6a2430508ba.8.2_CBCONJOINT",
    "feature3h2" = "X39381113.09d9.4f5e.a4d9.5ce7e8a27c88.8.2_CBCONJOINT" ,
    "feature4h2" = "b1429583.39b1.42fc.8ee2.2559edc4ca94.8.2_CBCONJOINT",
    "choice_a" = "C1" ,
    "choice_b" = "C2"
    "choice_c" = "C3"
    "choice_d" = "C4"
    "choice_e" = "C5"
    "choice_f" = "C6"
    "choice_g" = "C7"
    "choice_h" = "C8")
# keep conjoint columns
conjoint.d.chile <- dat.chile %>% dplyr:: select(grep("feature", names(dat.chile)),
                                                 grep("respondent", names(dat.chile)),
                                                 grep("choice", names(dat.chile)))
# CREGGG Approach
p_load(cregg,dplyr)
# https://thomasleeper.com/creqq/
# https://thomasleeper.com/creqq/reference/cj_tidy.html#examples
# "If a variable in the original format records which of the two profiles was chosen (e.g.
## profile_variables
list1 <- list(</pre>
  feature1 = list( # feature 1
   names(conjoint.d.chile)[grep("^feature1.{1}1", names(conjoint.d.chile))],
   names(conjoint.d.chile)[grep("^feature1.{1}2", names(conjoint.d.chile))]
  feature2 = list(# feature 2
   names(conjoint.d.chile)[grep("^feature2.{1}1", names(conjoint.d.chile))],
   names(conjoint.d.chile)[grep("^feature2.{1}2", names(conjoint.d.chile))]
  feature3 = list(# feature 3
   names(conjoint.d.chile)[grep("^feature3.{1}1", names(conjoint.d.chile))],
   names(conjoint.d.chile)[grep("^feature3.{1}2", names(conjoint.d.chile))]
 feature4 = list(# feature 4
   names(conjoint.d.chile)[grep("^feature4.{1}1", names(conjoint.d.chile))],
   names(conjoint.d.chile)[grep("^feature4.{1}2", names(conjoint.d.chile))]
# task variables
```

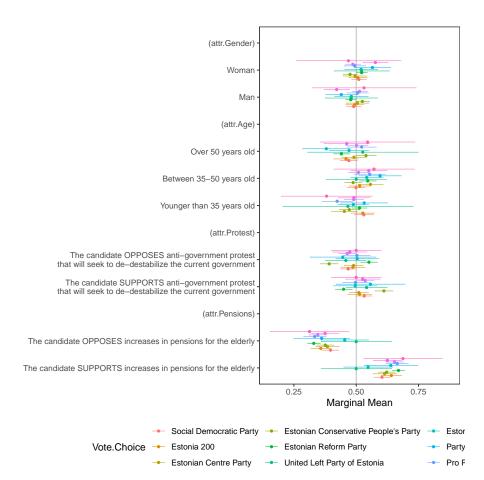
```
list2 <- list(choice = paste0("choice_", letters[1:8]))</pre>
# perform reshape
conjoint.d.chile <- cj_tidy(conjoint.d.chile,</pre>
                            profile_variables = list1,
                            task_variables = list2,
                            id = ~ respondent)
# checking (if nothing happens, it's true)
\# stopifnot(nrow(conjoint.d.chile) == nrow(dat.chile)*8*2) \# 8 tasks and 2 candidates
# recode outcome so it is coded sensibly
conjoint.d.chile$chosen <- ifelse((conjoint.d.chile$profile == "A" & conjoint.d.chile$choi
                                     (conjoint.d.chile$profile == "B" & conjoint.d.chile$ch
# rename features
# p_load("dplyr")
conjoint.d.chile <- conjoint.d.chile %>%
  rename("attr.Gender" = "feature1", "attr.Age" = "feature2", "attr.Protest" = "feature3", "
# features to factor
conjoint.d.chile$attr.Gender = as.factor(conjoint.d.chile$attr.Gender)
conjoint.d.chile$attr.Age = as.factor(conjoint.d.chile$attr.Age)
conjoint.d.chile$attr.Protest = as.factor(conjoint.d.chile$attr.Protest)
conjoint.d.chile$attr.Pensions = as.factor(conjoint.d.chile$attr.Pensions)
# Translate // Recode
conjoint.d.chile$attr.Gender <- recode_factor(conjoint.d.chile$attr.Gender, `Mujer` = "Wom</pre>
## Age
conjoint.d.chile$attr.Age <- recode_factor(conjoint.d.chile$attr.Age,</pre>
                                            `Menos de 35 años` = "Younger than 35 years old
                                            `Entre 35 y 50 años` = "Between 35-50 years old
                                            `Sobre 50 años` = "Over 50 years old")
## Protest
conjoint.d.chile$attr.Protest <- recode_factor(</pre>
  conjoint.d.chile$attr.Protest,
  `El candidato APOYA protestas que busquen desestabilizar el actual gobierno.` =
    "The candidate SUPPORTS anti-government protest\nthat will seek to de-destabilize the
  `El candidato SE OPONE a protestas que busquen desestabilizar el actual gobierno.` =
    "The candidate OPPOSES anti-government protest\nthat will seek to de-destabilize the c
## Pensions
conjoint.d.chile$attr.Pensions <- recode_factor(</pre>
  conjoint.d.chile$attr.Pensions,
```

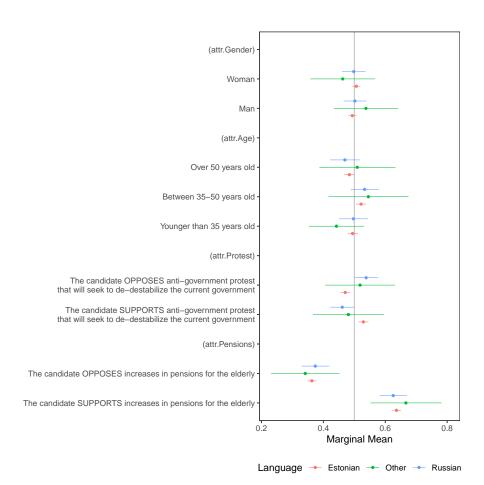
`El candidato APOYA un aumento en las pensiones para la tercera edad.` =

```
"The candidate SUPPORTS increases in pensions for the elderly",
  `El candidato SE OPONE a un aumento en las pensiones para la tercera edad.` =
    "The candidate OPPOSES increases in pensions for the elderly")
# use for analysis
# cj(conjoint.d.chile, chosen ~ attr.Gender + attr.Age + attr.Protest + attr.Pensions, id
# descriptive plotting
# plot(mm(conjoint.d.chile, chosen ~ attr.Gender + attr.Age + attr.Protest + attr.Pensions
# MERGING WITH LARGER DATASET
####################################
## Q10_1 # Democracy might have problems but it's better...
## Q10_2 # Democracy is not an effective form of government...better a strong leader
## Q10_3 # Civil rights that guarantee political protest should not be restricted
## Q10_4 # It is important that there are free and politically independent media in [count
## Q12_1 # Governments should tax the rich to help the poor
## Q8_1 # Thinking on a scale where one means far left and ten means far right, where do y
\#\# Q12_2 \# Religious authorities have the final say in interpreting the country's laws.
## Q12_3 # The people should choose their leaders in free elections.
## Q12_5 # The Army should take control of the state when the Government is not functioning
# Q12_7 # The state should ensure that wages are more equal.
## Q12_8 # People should always obey their rulers.
# Q12_9 # Women should have the same rights as men.
## IncomeLowMidHigh # Income Low/Mid/High
# Q3_young_old # Age young/old
## Educ.HighLow # Education High/Low
# subset vars from the big dataset to be merged to the conjoint dataset
dat.subset = dat.chile %>% dplyr::select(respondent, winners.losers, Educ.HighLow,
                                         IncomeLowMidHigh, Q3, Q3_young_old, Q4,
                                         Q10_1, Q10_1.r, Q10_2, Q10_2.r, Q10_3, Q10_3.r, Q
                                         Q12_2, Q12_2.r, Q12_3, Q12_3.r, Q12_5, Q12_5.r, Q
conjoint.d.chile = merge(dat.subset, conjoint.d.chile, by.x = "respondent")
####################################
# CONOINT Data Analyses
####################################
# We explore sub-group differences in the propensity to support anti-systemic action by
# -respondents' partisanship,
# -democratic satisfaction and
# -support for democratic norms
```

```
p_load(ggplot2)
# Marginal Means // Subgroup Analyses:
# Winners.Losers
mm_Winner_Loser_Chile <- suppressWarnings(cj(conjoint.d.chile, chosen ~ attr.Gender + attr
                                         id = ~ respondent,
                                         estimate = "mm",
                                         by = ~winners.losers))
mm_Winner_Loser_Estonia <- suppressWarnings(cj(conjoint.d.estonia, chosen ~ attr.Gender +</pre>
                                         id = ~ respondent,
                                         estimate = "mm",
                                         by = "winners.losers))
mm_Winner_Loser_Chile$Country <- "Chile"</pre>
mm_Winner_Loser_Estonia$Country <- "Estonia"</pre>
mm_Winner_Loser.d = rbind(mm_Winner_Loser_Chile, mm_Winner_Loser_Estonia)
mm_Winner_Loser.p <- plot(mm_Winner_Loser.d, group = "winners.losers", vline = 0.5)
mm_Winner_Loser.p %+% facet_wrap(~Country)
```

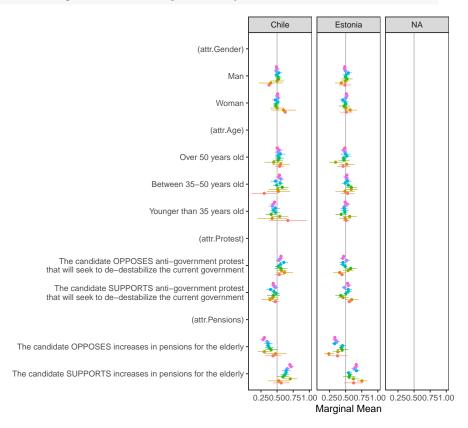






mm\_Free\_Elec.d = rbind(mm\_Free\_Elec\_Chile, mm\_Free\_Elec\_Estonia)

```
mm_Free_Elec.p <- plot(mm_Free_Elec.d, group = "Q12_3", vline = 0.5)
mm_Free_Elec.p %+% facet_wrap(~Country)</pre>
```



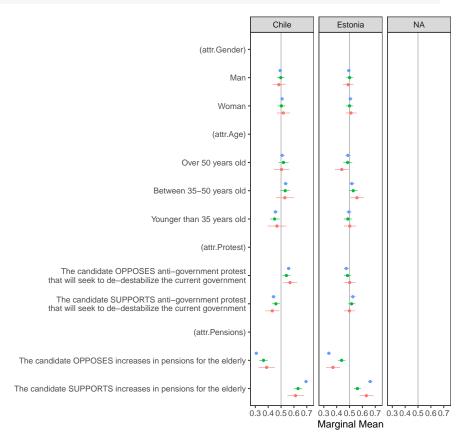
Q12\_3 Not at all - 3 - 5 - 7 - 9
- 2 - 4 - 6 - 8 - Definitely (

```
mm_Free_Elec_Estonia.r$Country <- "Estonia"

mm_Free_Elec.d.r = rbind(mm_Free_Elec_Chile.r, mm_Free_Elec_Estonia.r)

mm_Free_Elec.p.r <- plot(mm_Free_Elec.d.r, group = "Q12_3.r", vline = 0.5)

mm_Free_Elec.p.r %+% facet_wrap(~Country)</pre>
```



Q12\_3.r 

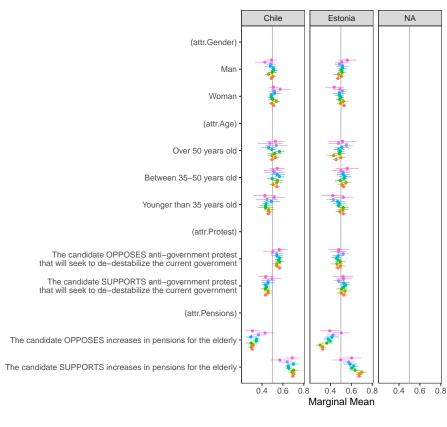
Not essential 

Intermediate 

Definitely

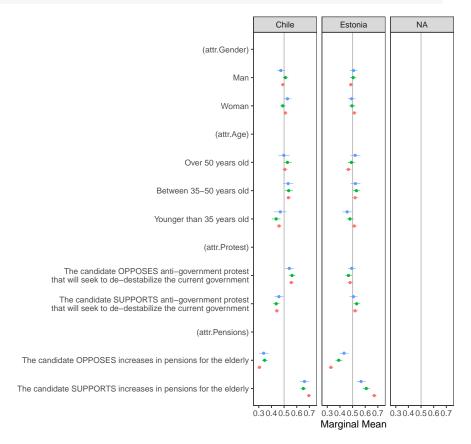
```
mm_Rel_Auth_Chile$Country <- "Chile"
mm_Rel_Auth_Estonia$Country <- "Estonia"

mm_Rel_Auth.d = rbind(mm_Rel_Auth_Chile, mm_Rel_Auth_Estonia)
mm_Rel_Auth.p <- plot(mm_Rel_Auth.d, group = "Q12_2", vline = 0.5)
mm_Rel_Auth.p %+% facet_wrap(~Country)</pre>
```

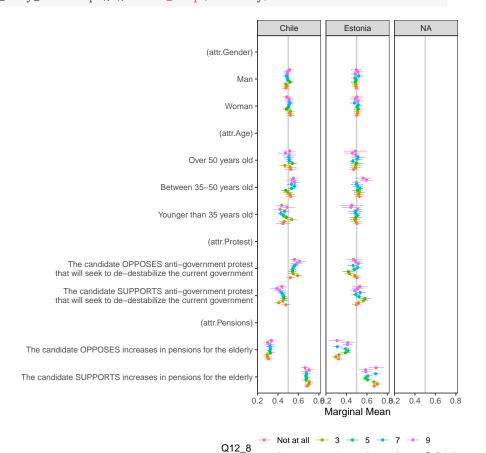


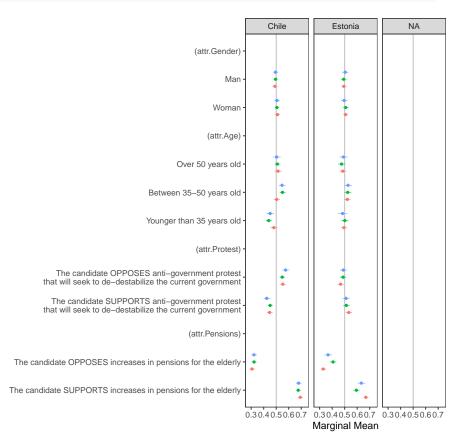
```
Q12_2  
Not at all  
3  
5  
7  
9

4  
6  
8  
Definitely or
```



Q12\_2.r → Not essential → Intermediate → Definitely





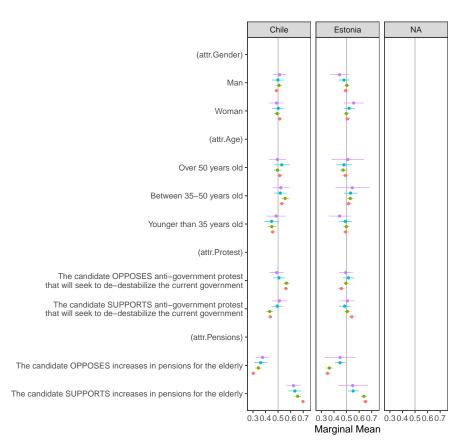
Q12\_8.r 

Not essential 

Intermediate 

Definitely

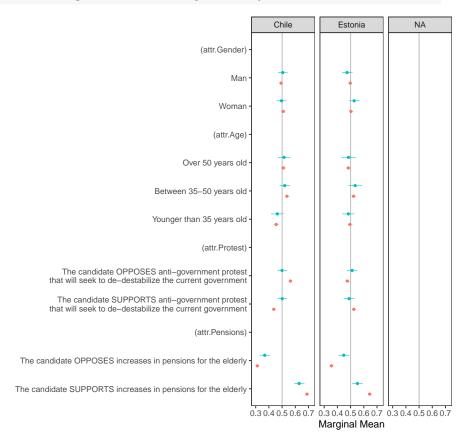
```
# Marginal Means // Subgroup Analyses:
# Q10_4 # It is important that there are free and politically independent media in [countr
mm_Free_Media_Chile <- suppressWarnings(cj(conjoint.d.chile, chosen ~ attr.Gender + attr.A</pre>
                                       id = ~ respondent,
                                       estimate = "mm",
                                       by = ^{\sim}Q10_4))
mm_Free_Media_Estonia <- suppressWarnings(cj(conjoint.d.estonia, chosen ~ attr.Gender + at
                                        id = ~ respondent,
                                        estimate = "mm",
                                         by = ~Q10_4)
mm_Free_Media_Chile$Country <- "Chile"</pre>
mm_Free_Media_Estonia$Country <- "Estonia"</pre>
mm_Free_Media.d = rbind(mm_Free_Media_Chile, mm_Free_Media_Estonia)
mm_Free_Media.p <- plot(mm_Free_Media.d, group = "Q10_4", vline = 0.5)</pre>
mm_Free_Media.p %+% facet_wrap(~Country)
```



Q10\_4 - Agree completely - Agree to some extent - Somewhat disagre

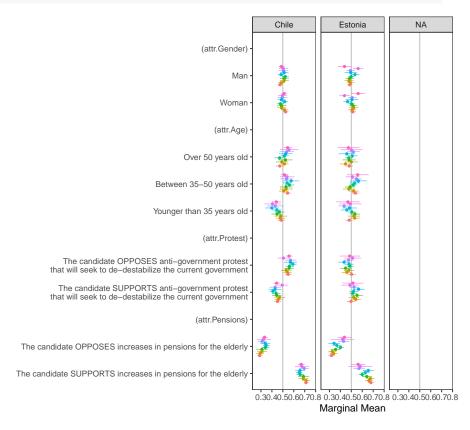
```
# Marginal Means // Subgroup Analyses:
\# Q10_4.r \# It is important that there are free and politically independent media in [count
mm_Free_Media_Chile.r <- suppressWarnings(cj(conjoint.d.chile, chosen ~ attr.Gender + attr
                                       id = ~ respondent,
                                        estimate = "mm",
                                       by = ~Q10_4.r)
mm_Free_Media_Estonia.r <- suppressWarnings(cj(conjoint.d.estonia, chosen ~ attr.Gender +
                                         id = ~ respondent,
                                         estimate = "mm",
                                         by = ~Q10_4.r)
mm_Free_Media_Chile.r$Country <- "Chile"</pre>
mm_Free_Media_Estonia.r$Country <- "Estonia"</pre>
mm_Free_Media.d.r = rbind(mm_Free_Media_Chile.r, mm_Free_Media_Estonia.r)
mm_Free_Media.p.r <- plot(mm_Free_Media.d.r, group = "Q10_4.r", vline = 0.5)
```

## mm\_Free\_Media.p.r %+% facet\_wrap(~Country)



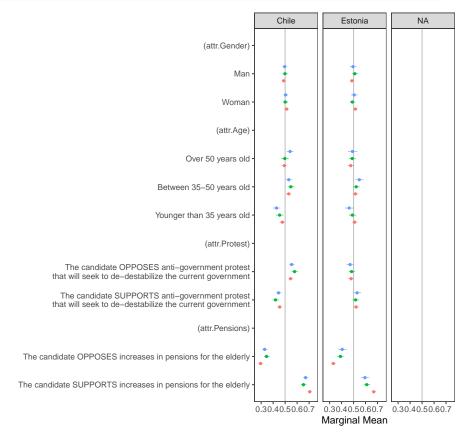
Q10\_4.r → Agree → Disagree

```
mm_Army.p <- plot(mm_Army.d, group = "Q12_5", vline = 0.5)
mm_Army.p %+% facet_wrap(~Country)</pre>
```



```
Q12_5 Not at all -- 3 -- 5 -- 7 -- 9
-- 2 -- 4 -- 6 -- 8 -- Definitely (
```

```
mm_Army.d.r = rbind(mm_Army_Chile.r, mm_Army_Estonia.r)
mm_Army.p.r <- plot(mm_Army.d.r, group = "Q12_5.r", vline = 0.5)
mm_Army.p.r %+% facet_wrap(~Country)</pre>
```



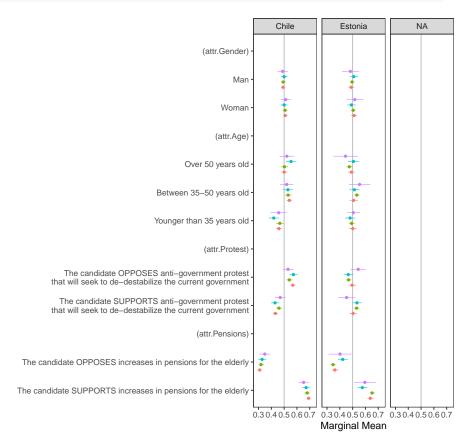
Q12\_5.r 

Not essential 

Intermediate 

Definitely

```
mm_DemBetter.d = rbind(mm_DemBetter_Chile, mm_DemBetter_Estonia)
mm_DemBetter.p <- plot(mm_DemBetter.d, group = "Q10_1", vline = 0.5)
mm_DemBetter.p %+% facet_wrap(~Country)</pre>
```



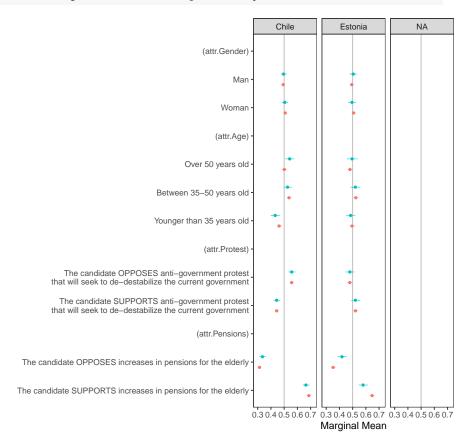
Q10\_1 - Agree completely - Agree to some extent - Somewhat disagre

```
mm_DemBetter_Estonia.r$Country <- "Estonia"

mm_DemBetter.d.r = rbind(mm_DemBetter_Chile.r, mm_DemBetter_Estonia.r)

mm_DemBetter.p.r <- plot(mm_DemBetter.d.r, group = "Q10_1.r", vline = 0.5)

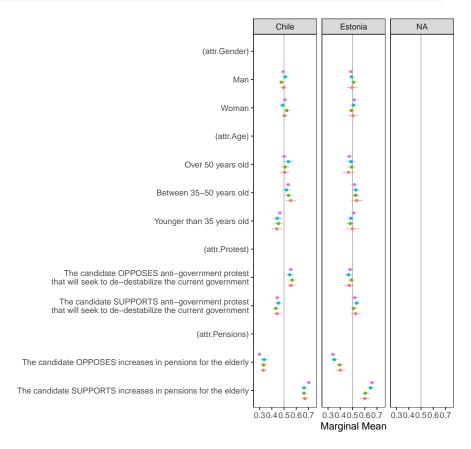
mm_DemBetter.p.r %+% facet_wrap("Country)</pre>
```



Q10\_1.r → Agree → Disagree

```
mm_StrongLeader_Chile$Country <- "Chile"
mm_StrongLeader_Estonia$Country <- "Estonia"

mm_StrongLeader.d = rbind(mm_StrongLeader_Chile, mm_StrongLeader_Estonia)
mm_StrongLeader.p <- plot(mm_StrongLeader.d, group = "Q10_2", vline = 0.5)
mm_StrongLeader.p %+% facet_wrap(~Country)</pre>
```



Q10\_2 - Agree completely - Agree to some extent - Somewhat disagre

```
by = ~Q10_2.r))

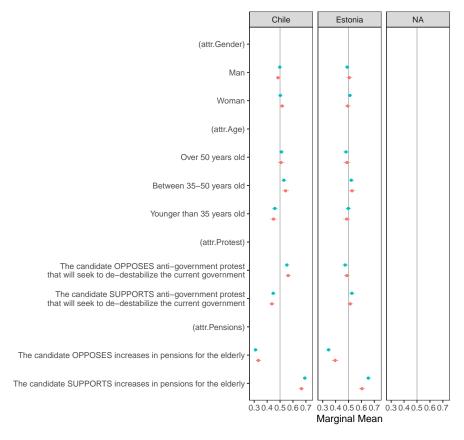
mm_StrongLeader_Chile.r$Country <- "Chile"

mm_StrongLeader_Estonia.r$Country <- "Estonia"

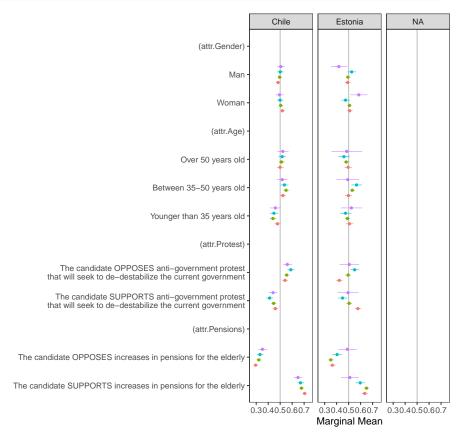
mm_StrongLeader.d.r = rbind(mm_StrongLeader_Chile.r, mm_StrongLeader_Estonia.r)

mm_StrongLeader.p.r <- plot(mm_StrongLeader.d.r, group = "Q10_2.r", vline = 0.5)

mm_StrongLeader.p.r %+% facet_wrap(~Country)</pre>
```



Q10\_2.r → Agree → Disagree



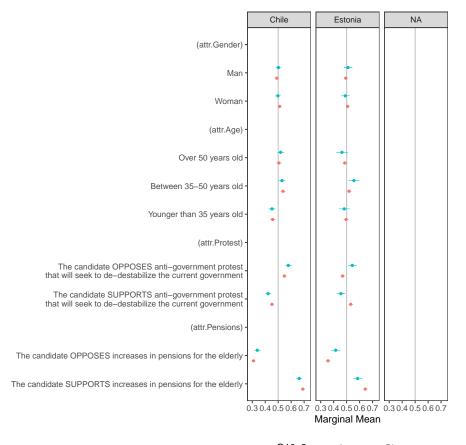
Q10\_3 - Agree completely - Agree to some extent - Somewhat disagre

```
by = ~Q10_3.r))

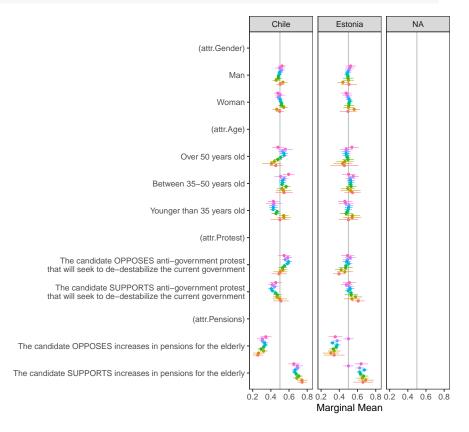
mm_RightToProtest_Estonia.r <- suppressWarnings(cj(conjoint.d.estonia, chosen ~ attr.Gender id = ~respondent, estimate = "mm", by = ~Q10_3.r))

mm_RightToProtest_Chile.r$Country <- "Chile"
mm_RightToProtest_Estonia.r$Country <- "Estonia"

mm_RightToProtest_d.r = rbind(mm_RightToProtest_Chile.r, mm_RightToProtest_Estonia.r)
mm_RightToProtest.p.r <- plot(mm_RightToProtest.d.r, group = "Q10_3.r", vline = 0.5)
mm_RightToProtest.p.r %+% facet_wrap(~Country)</pre>
```

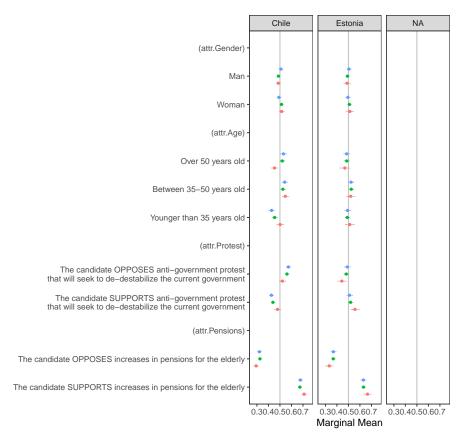


Q10\_3.r → Agree → Disagree

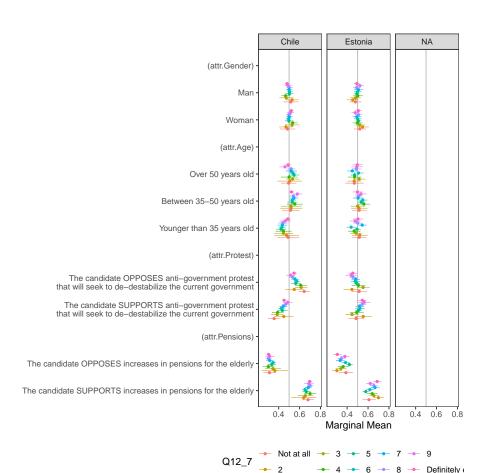


mm\_LeftRight.p %+% facet\_wrap(~Country)

Q8\_1  $\stackrel{\longleftarrow}{}$  Left  $\stackrel{\longleftarrow}{}$  3  $\stackrel{\longleftarrow}{}$  5  $\stackrel{\longleftarrow}{}$  7  $\stackrel{\frown}{}$  9



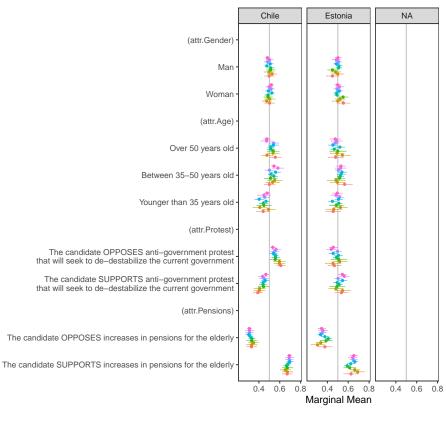
```
# Marginal Means // Subgroup Analyses:
# Q12_7 # The state should ensure that wages are more equal.
mm_Wages_Equal_Chile <- suppressWarnings(cj(conjoint.d.chile, chosen ~ attr.Gender + attr.
                                       id = ~ respondent,
                                       estimate = "mm",
                                       by = ^{\sim}Q12_{-7})
mm_Wages_Equal_Estonia <- suppressWarnings(cj(conjoint.d.estonia, chosen ~ attr.Gender + a
                                         id = ~ respondent,
                                         estimate = "mm",
                                         by = ~Q12_7)
mm_Wages_Equal_Chile$Country <- "Chile"</pre>
mm_Wages_Equal_Estonia$Country <- "Estonia"</pre>
mm_Wages_Equal.d = rbind(mm_Wages_Equal_Chile, mm_Wages_Equal_Estonia)
mm_Wages_Equal.p <- plot(mm_Wages_Equal.d, group = "Q12_7", vline = 0.5)</pre>
mm_Wages_Equal.p %+% facet_wrap(~Country)
```



mm\_Tax\_Rich.d = rbind(mm\_Tax\_Rich\_Chile, mm\_Tax\_Rich\_Estonia)

mm\_Tax\_Rich\_Chile\$Country <- "Chile"
mm\_Tax\_Rich\_Estonia\$Country <- "Estonia"</pre>

```
mm_Tax_Rich.p <- plot(mm_Tax_Rich.d, group = "Q12_1", vline = 0.5)
mm_Tax_Rich.p %+% facet_wrap(~Country)</pre>
```



```
Q12_1  
Not at all  
3  
5  
7  
9

--- 4  
6  
8  
Definitely (
```

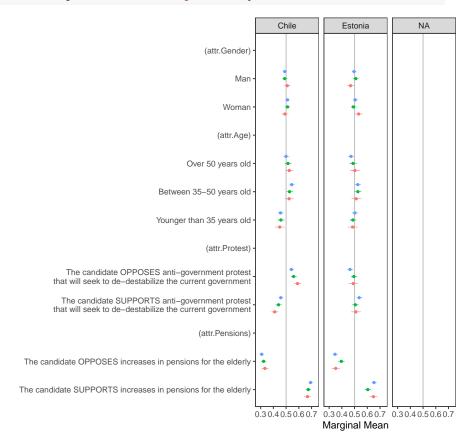
mm\_Tax\_Rich\_Chile.r\$Country <- "Chile"</pre>

```
mm_Tax_Rich_Estonia.r$Country <- "Estonia"

mm_Tax_Rich.d.r = rbind(mm_Tax_Rich_Chile.r, mm_Tax_Rich_Estonia.r)

mm_Tax_Rich.p.r <- plot(mm_Tax_Rich.d.r, group = "Q12_1.r", vline = 0.5)

mm_Tax_Rich.p.r %+% facet_wrap(~Country)</pre>
```



Q12\_1.r 

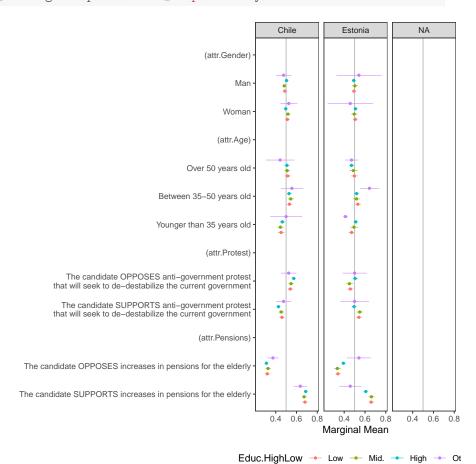
Not essential 

Intermediate 

Definitely

```
mm_EducHighLow_Chile$Country <- "Chile"
mm_EducHighLow_Estonia$Country <- "Estonia"

mm_EducHighLow.d = rbind(mm_EducHighLow_Chile, mm_EducHighLow_Estonia)
mm_EducHighLow.p <- plot(mm_EducHighLow.d, group = "Educ.HighLow", vline = 0.5)
mm_EducHighLow.p %+% facet_wrap(~Country)</pre>
```

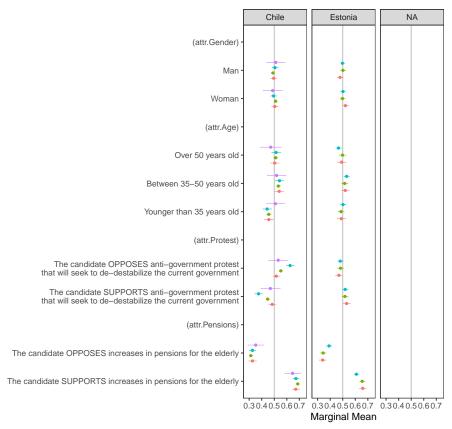


id = ~respondent,

```
estimate = "mm",
by = ~IncomeLowMidHigh))

mm_IncomeHighMidLow_Chile$Country <- "Chile"
mm_IncomeHighMidLow_Estonia$Country <- "Estonia"

mm_IncomeHighMidLow.d = rbind(mm_IncomeHighMidLow_Chile, mm_IncomeHighMidLow_Estonia)
mm_IncomeHighMidLow.p <- plot(mm_IncomeHighMidLow.d, group = "IncomeLowMidHigh", vline = 0
mm_IncomeHighMidLow.p %+% facet_wrap(~Country)
```



IncomeLowMidHigh → Low → Mid → High → Do

```
# free up memory
gc()
##
              used (Mb) gc trigger (Mb) limit (Mb) max used (Mb)
## Ncells 3869773 206.7 6798468 363.1 NA
                                                     6798468 363.1
## Vcells 10440219 79.7 106967708 816.1
                                            16384 124981042 953.6
# keep variables
p_load(dplyr)
vdem.d = vdem.d %>% dplyr::select(
  country_name,
  year,
  v2elfrfair, # Election free and fair
 v2elaccept, # Election losers accept results
 v2psbars, # Barriers to parties
  v2psparban, # Party ban
  # v2psbantar, # Party ban target
 v2exrescon, # Executive respects constitution
  # v2regsupgroups, # Regime support groups
 v2regimpgroup, # Regime most important support group
 v2regsupgroupssize, # Regime support groups size
 v2regsuploc, # Regime support location,
 v2regproreg, # Strongest pro-regime preferences
  v2regantireg, # Strongest anti-regime preferences
  v2regpower, # Most powerful group in affecting regime duration and change
  v2dlcommon, # Common good
  v2dlcountr, # Respect counterarguments
  v2dlengage, # Engaged society
  v2dlencmps, # Particularistic or public goods
  v2jupoatck, # Government attacks on judiciary
  v2clrspct, # Rigorous and impartial public administration
  v2clacjust, # Social class equality in respect for civil liberty
  v2clacfree, # Freedom of academic and cultural expression
  v2clstown, # State ownership of economy
  v2clprptym, # Property rights for men
  v2clprptyw, # Property rights for women
 v2stcritapparm, # Criteria for appointment decisions in the armed forces
 v2strenarm, # Remuneration in the Armed Forces
  # v2csanmuch, # Civil Society CSO anti-system movement character
  v2mecenefm, # Government censorship effort / Media
  v2mecenefi, # Internet censorship effort
  v2mecrit, # Print/broadcast media critical
  v2merange, # Print/broadcast media perspectives
  v2meharjrn, # Harassment of journalists
 v2meslfcen, # Media self-censorship
  v2mebias, # Media bias
  v2pepwrses, # Power distributed by socioeconomic position
 v2pepwrsoc, # Power distributed by social group
```

```
v2peapsecon, # Access to public services distributed by socio-economic position
  v2peasjsoecon, # Access to state jobs by socio-economic position
  v2clpolc1, # Political group equality in respect for civil liberties
 v2cacamps, # Political polarization
 v2caviol, # Political violence
  v2caassemb, # Freedom of peaceful assembly
  # v2casoe, # State of emergency
 v2cagenmob, # Mass mobilization
  v2caconmob, # Mass mobilization concentration
 v2cademmob, # Mobilization for democracy
 v2caautmob, # Mobilization for autocracy
 v2catrauni, # Engagement in independent trade unions
  v2capolit, # Engagement in independent political associations
  v2canonpol, # Engagement in independent non-political associations
  v2cauni, # Existence of universities
  v2caprotac, # Constitutional protection for academic freedom
  v2cafres, # Freedom to research and teach
  v2cainsaut, # Institutional autonomy
  v2cacritic, # Academics as critics
  v3partyid, # Party identification
  v3lgbudglo, # Lower chamber budget
  v2xnp_client, # Clientelism Index
  v2x_rule, # Rule of law index
  v2smgovdom, # Government dissemination of false information domestic
  v2smgovab, # Government dissemination of false information abroad
  v2smgovsmmon, # Government social media monitoring
  v2smgovsmcenprc, # Government social media censorship in practice
  v2smregcap, # Government capacity to regulate online content
  # v2smhargr, # Online harassment groups
  v2smarrest, # Arrests for political content
  v2smpolsoc, # Polarization of society
  v2smpolhate, # Political parties hate speech
  e_polcomp, # Political competition
  e_ti_cpi # Corruption perception index
  #everything()
p_load(ggplot2)
p1 = ggplot(vdem.d, aes(year, v2elfrfair, col=country_name)) + geom_smooth() + theme_light
 labs(y="Election free and fair") + theme(legend.position = "none", aspect.ratio=1)
p2 = ggplot(vdem.d, aes(year, v2elaccept, col=country_name)) + geom_smooth() + theme_light
 labs(y="Election losers accept results") + theme(legend.position = "none", aspect.ratio=
p3 = ggplot(vdem.d, aes(year, v2psbars, col=country_name)) + geom_smooth() + theme_light()
 labs(y="Barriers to parties") + theme(legend.position = "none", aspect.ratio=1)
p4 = ggplot(vdem.d, aes(year, v2psparban, col=country_name)) + geom_smooth() + theme_light
 labs(y="Party ban") + theme(legend.position = "none", aspect.ratio=1)
```

p5 = ggplot(vdem.d, aes(year, v2exrescon, col=country\_name)) + geom\_smooth() + theme\_light

```
p6 = ggplot(vdem.d, aes(year, v2regimpgroup, col=country_name)) + geom_smooth() + theme_li
 labs(y="Regime most important support group") + theme(legend.position = "none", aspect.r
p7 = ggplot(vdem.d, aes(year, v2regsupgroupssize, col=country_name)) + geom_smooth() + the
  labs(y="Regime support groups size") + theme(legend.position = "none", aspect.ratio=1)
p8 = ggplot(vdem.d, aes(year, v2regsuploc, col=country_name)) + geom_smooth() + theme_ligh
 labs(y="Regime support location") + theme(legend.position = "none", aspect.ratio=1)
p9 = ggplot(vdem.d, aes(year, v2regproreg, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Strongest pro-regime preferences") + theme(legend.position = "none", aspect.rati
p10 = ggplot(vdem.d, aes(year, v2regantireg, col=country_name)) + geom_smooth() + theme_li
  labs(y="Strongest anti-regime preferences") + theme(legend.position = "none", aspect.rat
p11 = ggplot(vdem.d, aes(year, v2regpower, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Most powerful group in affecting regime duration and change") + theme(legend.pos
p12 = ggplot(vdem.d, aes(year, v2dlcommon, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Common good") + theme(legend.position = "none", aspect.ratio=1)
p13 = ggplot(vdem.d, aes(year, v2dlcountr, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Respect counterarguments") + theme(legend.position = "none", aspect.ratio=1)
p14 = ggplot(vdem.d, aes(year, v2dlengage, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Engaged society") + theme(legend.position = "none", aspect.ratio=1)
p15 = ggplot(vdem.d, aes(year, v2dlencmps, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Particularistic or public goods") + theme(legend.position = "none", aspect.ratio")
p16 = ggplot(vdem.d, aes(year, v2jupoatck, col=country_name)) + geom_smooth() + theme_light
  abs(y="Government attacks on judiciary") + theme(legend.position = "bottom", aspect.rati
## Error in abs(y = "Government attacks on judiciary"): supplied argument
name 'y' does not match 'x'
p17 = ggplot(vdem.d, aes(year, v2clrspct, col=country_name)) + geom_smooth() + theme_light
  labs(y="Rigorous and impartial public administration") + theme(legend.position = "none",
p18 = ggplot(vdem.d, aes(year, v2clacjust, col=country_name)) + geom_smooth() + theme_light
  labs(y="Social class equality in respect for civil liberty") + theme(legend.position = "
p19 = ggplot(vdem.d, aes(year, v2clacfree, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Freedom of academic and cultural expression") + theme(legend.position = "none",
p20 = ggplot(vdem.d, aes(year, v2clstown, col=country_name)) + geom_smooth() + theme_light
  labs(y="State ownership of economy") + theme(legend.position = "none", aspect.ratio=1)
p21 = ggplot(vdem.d, aes(year, v2clprptym, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Property rights for men") + theme(legend.position = "none", aspect.ratio=1)
p22 = ggplot(vdem.d, aes(year, v2clprptyw, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Property rights for women") + theme(legend.position = "none", aspect.ratio=1)
p23 = ggplot(vdem.d, aes(year, v2stcritapparm, col=country_name)) + geom_smooth() + theme_
  labs(y="Criteria for appointment decisions in the armed forces") + theme(legend.position
p24 = ggplot(vdem.d, aes(year, v2strenarm, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Remuneration in the Armed Forces") + theme(legend.position = "none", aspect.rati
p25 = ggplot(vdem.d, aes(year, v2mecenefm, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Government censorship effort | Media") + theme(legend.position = "none", aspect.
p26 = ggplot(vdem.d, aes(year, v2mecenefi, col=country_name)) + geom_smooth() + theme_light
  labs(y="Internet censorship effort") + theme(legend.position = "none", aspect.ratio=1)
p27 = ggplot(vdem.d, aes(year, v2mecrit, col=country_name)) + geom_smooth() + theme_light(
labs(y="Print/broadcast media critical") + theme(legend.position = "none", aspect.ratio
```

labs(y="Executive respects constitution") + theme(legend.position = "none", aspect.ratio

```
p28 = ggplot(vdem.d, aes(year, v2merange, col=country_name)) + geom_smooth() + theme_light
  labs(y="Print/broadcast media perspectives") + theme(legend.position = "none", aspect.ra
p29 = ggplot(vdem.d, aes(year, v2meharjrn, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Harassment of journalists") + theme(legend.position = "none", aspect.ratio=1)
p30 = ggplot(vdem.d, aes(year, v2meslfcen, col=country_name)) + geom_smooth() + theme_light
  labs(y="Media self-censorship") + theme(legend.position = "none", aspect.ratio=1)
p31 = ggplot(vdem.d, aes(year, v2mebias, col=country_name)) + geom_smooth() + theme_light(
  labs(y="Media bias") + theme(legend.position = "none", aspect.ratio=1)
p32 = ggplot(vdem.d, aes(year, v2pepwrses, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Power distributed by socioeconomic position") + theme(legend.position = "bottom"
p33 = ggplot(vdem.d, aes(year, v2pepwrsoc, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Power distributed by social group") + theme(legend.position = "none", aspect.rat
p34 = ggplot(vdem.d, aes(year, v2peapsecon, col=country_name)) + geom_smooth() + theme_lig
  labs(y="Access to public services distributed by socio-economic position") + theme(legen
p35 = ggplot(vdem.d, aes(year, v2peasjsoecon, col=country_name)) + geom_smooth() + theme_l
  labs(y="Access to state jobs by socio-economic position") + theme(legend.position = "non
p36 = ggplot(vdem.d, aes(year, v2clpolcl, col=country_name)) + geom_smooth() + theme_light
  labs(y="Political group equality in respect for civil liberties") + theme(legend.position)
p37 = ggplot(vdem.d, aes(year, v2cacamps, col=country_name)) + geom_smooth() + theme_light
  labs(y="Political polarization") + theme(legend.position = "none", aspect.ratio=1)
p38 = ggplot(vdem.d, aes(year, v2caviol, col=country_name)) + geom_smooth() + theme_light(
  labs(y="Political violence") + theme(legend.position = "none", aspect.ratio=1)
p39 = ggplot(vdem.d, aes(year, v2caassemb, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Freedom of peaceful assembly") + theme(legend.position = "none", aspect.ratio=1)
p40 = ggplot(vdem.d, aes(year, v2cagenmob, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Mass mobilization") + theme(legend.position = "none", aspect.ratio=1)
p41 = ggplot(vdem.d, aes(year, v2caconmob, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Mass mobilization concentration") + theme(legend.position = "none", aspect.ratio")
p42 = ggplot(vdem.d, aes(year, v2cademmob, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Mobilization for democracy") + theme(legend.position = "none", aspect.ratio=1)
p43 = ggplot(vdem.d, aes(year, v2caautmob, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Mobilization for autocracy") + theme(legend.position = "none", aspect.ratio=1)
p44 = ggplot(vdem.d, aes(year, v2catrauni, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Engagement in independent trade unions") + theme(legend.position = "none", aspec
p45 = ggplot(vdem.d, aes(year, v2capolit, col=country_name)) + geom_smooth() + theme_light
  labs(y="Engagement in independent political associations") + theme(legend.position = "no
p46 = ggplot(vdem.d, aes(year, v2canonpol, col=country_name)) + geom_smooth() + theme_light
  labs(y="Engagement in independent non-political associations") + theme(legend.position =
p47 = ggplot(vdem.d, aes(year, v2cauni, col=country_name)) + geom_smooth() + theme_light()
  labs(y="Existence of universities") + theme(legend.position = "none", aspect.ratio=1)
p48 = ggplot(vdem.d, aes(year, v2caprotac, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Constitutional protection for academic freedom") + theme(legend.position = "bott
p49 = ggplot(vdem.d, aes(year, v2cafres, col=country_name)) + geom_smooth() + theme_light(
 labs(y="Freedom to research and teach") + theme(legend.position = "none", aspect.ratio=1
p50 = ggplot(vdem.d, aes(year, v2cainsaut, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Institutional autonomy") + theme(legend.position = "none", aspect.ratio=1)
p51 = ggplot(vdem.d, aes(year, v2cacritic, col=country_name)) + geom_smooth() + theme_ligh
```

```
labs(y="Academics as critics") + theme(legend.position = "none", aspect.ratio=1)
p52 = ggplot(vdem.d, aes(year, v3partyid, col=country_name)) + geom_smooth() + theme_light
 labs(y="Party identification") + theme(legend.position = "none", aspect.ratio=1)
p53 = ggplot(vdem.d, aes(year, v3lgbudglo, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Lower chamber budget") + theme(legend.position = "none", aspect.ratio=1)
p54 = ggplot(vdem.d, aes(year, v2xnp_client, col=country_name)) + geom_smooth() + theme_li
 labs(y="Clientelism Index") + theme(legend.position = "none", aspect.ratio=1)
p55 = ggplot(vdem.d, aes(year, v2x_rule, col=country_name)) + geom_smooth() + theme_light(
  labs(y="Rule of law index") + theme(legend.position = "none", aspect.ratio=1)
p56 = ggplot(vdem.d, aes(year, v2smgovdom, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Government dissemination of false information domestic") + theme(legend.position
p57 = ggplot(vdem.d, aes(year, v2smgovab, col=country_name)) + geom_smooth() + theme_light
  labs(y="Government dissemination of false information abroad") + theme(legend.position =
p58 = ggplot(vdem.d, aes(year, v2smgovsmmon, col=country_name)) + geom_smooth() + theme_li
  labs(y="Government social media monitoring") + theme(legend.position = "none", aspect.ra
p59 = ggplot(vdem.d, aes(year, v2smgovsmcenprc, col=country_name)) + geom_smooth() + theme
  labs(y="Government social media censorship in practice") + theme(legend.position = "none
p60 = ggplot(vdem.d, aes(year, v2smregcap, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Government capacity to regulate online content") + theme(legend.position = "none
p61 = ggplot(vdem.d, aes(year, v2smarrest, col=country_name)) + geom_smooth() + theme_ligh
  labs(y="Arrests for political content") + theme(legend.position = "none", aspect.ratio=1
p62 = ggplot(vdem.d, aes(year, v2smpolsoc, col=country_name)) + geom_smooth() + theme_light
  labs(y="Polarization of society") + theme(legend.position = "none", aspect.ratio=1)
p63 = ggplot(vdem.d, aes(year, v2smpolhate, col=country_name)) + geom_smooth() + theme_lig
  labs(y="Political parties hate speech") + theme(legend.position = "none", aspect.ratio=1
p64 = ggplot(vdem.d, aes(year, e_polcomp, col=country_name)) + geom_smooth() + theme_light
  labs(y="Political competition") + theme(legend.position = "none", aspect.ratio=1)
p65 = ggplot(vdem.d, aes(year, e_ti_cpi, col=country_name)) + geom_smooth() + theme_light(
 labs(y="Corruption perception index") + theme(legend.position = "bottom", aspect.ratio=1
cowplot::plot_grid(p1,p2,p3,p4,p5,p6,p7,p8,p9,p10,p11,p12,p13,p14,p15,p16, align = "hv",ax
## Error in eval(expr, envir, enclos): object 'p16' not found
cowplot::plot_grid(p17, p18, p19, p20, p21, p22, p23, p24, p25, p26, p27, p28, p29, p30, p
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 229 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
```

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## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'qeom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## 'geom\_smooth()' using method = 'loess' and formula = 'y ~ x'
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x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
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x$y, : conversion failure on 'Government censorship effort | Media'
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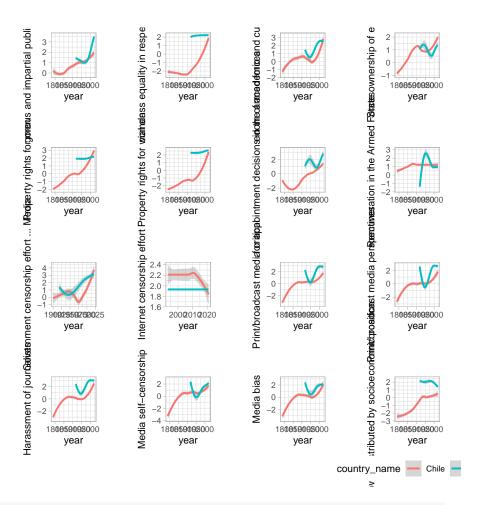
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x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
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x$y, : conversion failure on 'Government censorship effort | Media'
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x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
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x$y, : conversion failure on 'Government censorship effort | Media'
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x$y, : conversion failure on 'Government censorship effort | Media'
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x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
```

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
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x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
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x$y, : conversion failure on 'Government censorship effort | Media'
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
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x$y, : conversion failure on 'Government censorship effort | Media'
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x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
```

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
x$y, : conversion failure on 'Government censorship effort | Media'
in 'mbcsToSbcs': dot substituted for <94>
```



cowplot::plot\_grid(p33, p34, p35, p36, p37, p38, p39, p40, p41, p42, p43, p44, p45, p46, p ## 'qeom\_smooth()' using method = 'loess' and formula = 'y ~ x' ## 'geom\_smooth()' using method = 'loess' and formula = 'y ~ x' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ ' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ ' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ ' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ ' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ ' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ ' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ ' ## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()'). ## 'geom\_smooth()' using method = 'loess' and formula = ' $y \sim x$ '

```
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'qeom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 114 rows containing non-finite values ('stat_smooth()').
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cowplot::plot_grid(p49, p50, p51, p52, p53, p55, p56, p57, p58, p59, p60, p61, p62, p63, p
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
```

## Warning: Removed 111 rows containing non-finite values ('stat\_smooth()').

```
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 111 rows containing non-finite values ('stat_smooth()').
## 'qeom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 155 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 177 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'geom\_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'qeom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'geom_smooth()' using method = 'loess' and formula = 'y \sim x'
## Warning: Removed 243 rows containing non-finite values ('stat_smooth()').
## 'qeom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 36 rows containing non-finite values ('stat_smooth()').
## 'qeom_smooth()' using method = 'loess' and formula = 'y ~ x'
## Warning: Removed 267 rows containing non-finite values ('stat_smooth()').
```

