IICP: Playing with ESS

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```
ess_2002 = haven::read_stata("ESS1e06_6.dta")
ess_2004 = haven::read_stata("ESS2e03_6.dta")
ess 2006 = haven::read stata("ESS3e03 7.dta")
ess_2008 = haven::read_stata("ESS4e04_5.dta")
ess_2010 = haven::read_stata("ESS5e03_4.dta")
# table(ess 2002$cntry)
# table(ess_2002$essround)
ess_2002 = ess_2002 %>%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecntr, cntbrth, gndr, edulvla, facntr, mo
  plyr::rename(c("cntbrth"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn", "wrkctr"
  ess_2002 = ess_2002 %% mutate(hinctnt = hinctnt/12*10) # rescale to fit data from 2008 and 2010
ess_{2004} = ess_{2004} %
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecntr, cntbrtha, gndr, edulvla, facntr, m
  plyr::rename(c("cntbrtha"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn"))
  ess_2004 = ess_2004 %>% mutate(hinctnt = hinctnt/12*10)
ess_2006 = ess_2006 %>%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecntr, cntbrtha, gndr, edulvla, facntr, m
  plyr::rename(c("cntbrtha"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn"))
  ess_2006 = ess_2006 %>% mutate(hinctnt = hinctnt/12*10)
ess_2008 = ess_2008 %>%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecntr, cntbrthb, gndr, edulvla, facntr, m
  plyr::rename(c("cntbrthb"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn", "hinctn
ess_2010 = ess_2010 \%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecnta, cntbrthb, gndr, edulvlb, facntr, m
  plyr::rename(c("cntbrthb"="birthplace", "blgetmg"="ethnic", "edulvlb"="edu", "livecnta" = "livecntr", "b.
ess 2010$livecntr = ess 2010$livecntr - 2010
ess_2010$livecntr = ifelse(ess_2010$livecntr >= 1, 1,
                           ifelse(ess_2010$livecntr %in% c(-1:-5), 2,
                                  ifelse(ess_2010$livecntr %in% c(-6:-10), 3,
                                         ifelse(ess_2010$livecntr %in% c(-11:-20), 4,
                                                ifelse(ess_2010$livecntr < -20, 5, NA)))))</pre>
ess_2010polcmpl = NA
ess_2010poldcs = NA
ess_raw = rbind(ess_2002, ess_2004, ess_2006, ess_2008, ess_2010)
ess_raw$sec.immi = ifelse(ess_raw$facntr == 2 | ess_raw$mocntr == 2, 1, 0)
ess_raw$ethnic = ifelse(ess_raw$ethnic == 1, 1,
                        ifelse(ess_raw$ethnic == 2, 0, NA))
ess_raw$citizen = ifelse(ess_raw$ctzcntr == 1, 1,
                         ifelse(ess_raw$ctzcntr == 2, 0, NA))
ess_raw$residence = ifelse(ess_raw$livecntr <= 3, 1, 0) # 1 = lived less than 10 yrs, 0 = lived more th
ess_raw$birthplace = ifelse(ess_raw$birthplace %in% c(66,77,88,99,"02","03","04","06"), NA, ess_raw$bir
  # ess_raw = ess_raw[complete.cases(ess_raw$birthplace),]
  eu_member = c("BE", "FR", "DE", "IT", "LU", "NL", "DK", "IE", "GB", "GR", "PT", "ES", "AT", "SE")
  ess_raw$eubirth = ifelse(ess_raw$birthplace %in% eu_member, 1, 0)
```

```
ess_raw$female = ifelse(ess_raw$gndr == 2, 1,
                        ifelse(ess_raw$gndr == 1, 0, NA))
ess_raw$edu = ifelse(ess_raw$edu > 5, NA, ess_raw$edu)
ess_raw$fborn = ifelse(ess_raw$fborn == 1, 0, 1) # now 1 as foreign born, 0 as native born
ess_raw$polintr = ifelse(ess_raw$polintr > 4, NA, ess_raw$polintr)
# table(ess_raw$polcmpl) whether politics are too complicated to understand, 5 as always, 1 as never
# table(ess raw$poldcs) how difficult it is to make mind up about political issues, 5 as very easy, 1 a
ess_raw$poldcs = ifelse(ess_raw$poldcs == 5, 1,
                        ifelse(ess_raw$poldcs == 4, 2,
                               ifelse(ess_raw$poldcs == 3, 3,
                                      ifelse(ess_raw$poldcs == 2, 4,
                                             ifelse(ess_raw$poldcs == 1, 5, ess_raw$poldcs)))))
ess_raw$hincfel = ifelse(ess_raw$hincfel > 4, NA, ess_raw$hincfel)
ess_raw$ppltrst = ifelse(ess_raw$ppltrst > 10, NA, ess_raw$ppltrst) # 0 as can't be too careful, 10 as
ess_raw$pplfair = ifelse(ess_raw$pplfair > 10, NA, ess_raw$pplfair) # 0 as most people take advantage,
ess_raw$employ = ifelse(ess_raw$uempla == 0, 1, 0) # 1 = employed, 0 = unemployed
ess_mean = ess_raw %>% filter(citizen == 1, fborn == 0) %>% group_by(cntry) %>%
  select(cntry,polintr, hincfel, employ, ppltrst, pplfair, polcmpl, poldcs) %>%
  summarise(mean.poli = mean(polintr, na.rm = TRUE),
            mean.employ = mean(employ, na.rm = TRUE),
            mean.hincfel = mean(hincfel, na.rm = TRUE),
           mean.ppltrst = mean(ppltrst, na.rm = TRUE),
            mean.pplfair = mean(pplfair, na.rm = TRUE),
            mean.polcmpl = mean(polcmpl, na.rm = TRUE),
            mean.poldcs = mean(poldcs, na.rm = TRUE))
# ess_mean = ess_raw %>% filter(citizen == 1) %>% group_by(cntry) %>%
  select(cntry,polintr, hincfel, employ, ppltrst, pplfair) %>%
   summarise(mean.poli = mean(polintr, na.rm = TRUE),
#
              mean.employ = mean(employ, na.rm = TRUE),
#
              mean.hincfel = mean(hincfel, na.rm = TRUE),
#
              mean.ppltrst = mean(ppltrst, na.rm = TRUE),
#
              mean.pplfair = mean(pplfair, na.rm = TRUE))
# ess_mean.comp = ess_mean %>% left_join(ess_mean.1, by='cntry')
ess_tenyr = ess_raw %>% filter(residence == 1)
ess_tenyr = ess_tenyr %>% left_join(ess_mean, by='cntry')
ess_h.tenyr = ess_tenyr %>% filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR"))
ess_l.tenyr = ess_tenyr %>% filter(cntry %in% c("IE", "SE", "BE", "PT", "ES", "FI", "LU", "IT"))
ess_h.tenyr = ess_h.tenyr %>% mutate(
 poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
 hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
 pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
 poldcs.gap = poldcs - mean.poldcs
```

```
ess_l.tenyr = ess_l.tenyr %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
)
```

Descriptive Analysis: Replicating Goodman and Wright (2015) with different definition of 'immigrants'

```
ess_nonciti = ess_raw %>% filter(citizen == 0)
ess_nonciti = ess_nonciti %>% left_join(ess_mean, by='cntry')
ess h.nonciti = ess nonciti %>% filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR"))
ess_l.nonciti = ess_nonciti %>% filter(cntry %in% c("IE", "SE", "BE", "PT", "ES", "FI", "LU", "IT"))
ess_h.nonciti = ess_h.nonciti %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
ess_l.nonciti = ess_l.nonciti %>% mutate(
 poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
 hincfel.gap = hincfel - mean.hincfel,
 ppltrst.gap = ppltrst - mean.ppltrst,
 pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
ess_fborn = ess_raw %>% filter(fborn == 1)
ess_fborn = ess_fborn %>% left_join(ess_mean, by='cntry')
ess_h.fborn = ess_fborn %>% filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR"))
ess_1.fborn = ess_fborn %>% filter(cntry %in% c("IE", "SE", "BE", "PT", "ES", "FI", "LU", "IT"))
ess_1.fborn = ess_1.fborn %>% mutate(
 poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
```

```
hincfel.gap = hincfel - mean.hincfel,
ppltrst.gap = ppltrst - mean.ppltrst,
pplfair.gap = pplfair - mean.pplfair,
polcmpl.gap = polcmpl - mean.polcmpl,
poldcs.gap = poldcs - mean.poldcs
)

ess_h.fborn = ess_h.fborn %>% mutate(
   poli.gap = polintr - mean.poli,
   employ.gap = employ - mean.employ,
   hincfel.gap = hincfel - mean.hincfel,
   ppltrst.gap = ppltrst - mean.ppltrst,
   pplfair.gap = pplfair - mean.pplfair,
   polcmpl.gap = polcmpl - mean.polcmpl,
   poldcs.gap = poldcs - mean.poldcs
)
```

Noncitizens in ESS

length(polintr.h.1\$residuals) 1803

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # absolute lev
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # absolute lev
polintr.1.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.nonciti) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polintr.h.1\$coefficients[1],confint(polintr.h.1)[1,]))
absolute.1 = as.vector(c(polintr.1.1$coefficients[1],confint(polintr.1.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.1 = as.vector(c(polintr.1.2$coefficients[1],confint(polintr.1.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # absolute lev
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # gap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = ess_1.nonciti) # absolute lev
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.nonciti) # gap
```

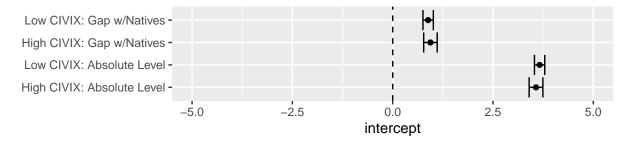


Figure 1: Political interests by CIVIX in EU-15 among Non-citizens

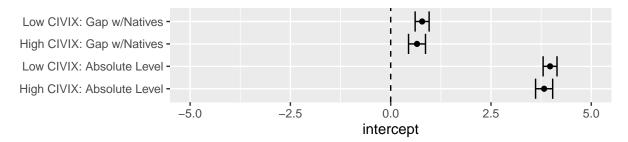


Figure 2: Politics as complicated by CIVIX in EU-15 among Non-citizens

```
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1\$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # absolute level
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # gap
poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # absolute level
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.nonciti) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
```

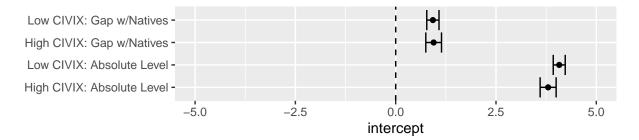


Figure 3: Difficulties in making political decisions by CIVIX in EU-15 among Non-citizens

```
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.l = as.vector(c(poldcs.1.2$coefficients[1],confint(poldcs.1.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # absolute lev
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_1.nonciti) # absolute lev
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.nonciti) # gap
# length(hincfel.h.1$residuals) 1698
absolute.h = as.vector(c(hincfel.h.1\$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

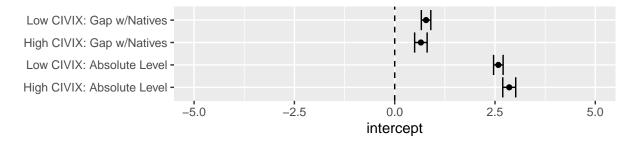


Figure 4: Financial situation by CIVIX in EU-15 among Non-citizens

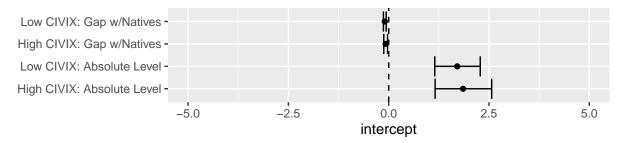


Figure 5: Employment by CIVIX among Non-citizens

```
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti, family = binomi
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess 1.nonciti, family = binomi
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.nonciti) # gap
# length(employ.h.1$residuals) 1813
# length(employ.l.1$residuals) 2673
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.1 = as.vector(c(employ.1.1$coefficients[1],confint(employ.1.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
 geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom vline(xintercept = 0, linetype = "dashed") +
 ylab("")
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # absolute lev
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # qap
```

ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # absolute lev ppltrst.l.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # qap

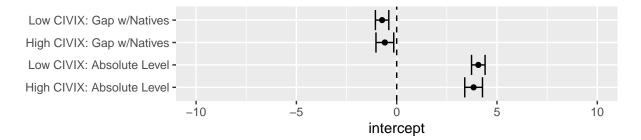


Figure 6: General trust by CIVIX in EU-15 among Non-citizens

```
# length(ppltrst.h.1$residuals) 1804
# length(ppltrst.l.1$residuals) 1657
absolute.h = as.vector(c(ppltrst.h.1$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.1.1$coefficients[1],confint(ppltrst.1.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.1 = as.vector(c(ppltrst.1.2$coefficients[1],confint(ppltrst.1.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # absolute lev
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # absolute lev
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # gap
absolute.h = as.vector(c(pplfair.h.1\$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.1 = as.vector(c(pplfair.1.1$coefficients[1],confint(pplfair.1.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.l = as.vector(c(pplfair.1.2$coefficients[1],confint(pplfair.1.2)[1,]))
pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))
ggplot(pplfair.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
```

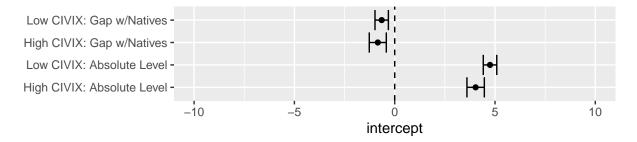


Figure 7: People being fair by CIVIX in EU-15 among Non-citizens

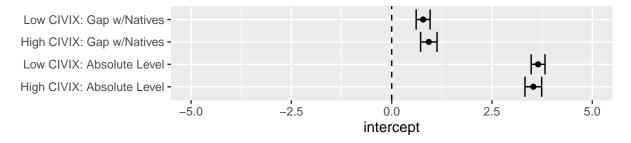


Figure 8: Political interests by CIVIX in EU-15, < 10 yrs

```
ylab("")
```

Less than 10-years of residence

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
polintr.h.2 = lm(poli.gap \sim agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
polintr.1.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
absolute.h = as.vector(c(polintr.h.1$coefficients[1],confint(polintr.h.1)[1,]))
absolute.1 = as.vector(c(polintr.1.1$coefficients[1],confint(polintr.1.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.1 = as.vector(c(polintr.1.2$coefficients[1],confint(polintr.1.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
```

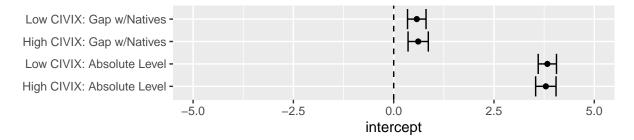


Figure 9: Politics as complicated by CIVIX in EU-15, < 10 yrs

```
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # absolute level
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1\$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # qap
poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.l = as.vector(c(poldcs.l.2$coefficients[1],confint(poldcs.l.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
```

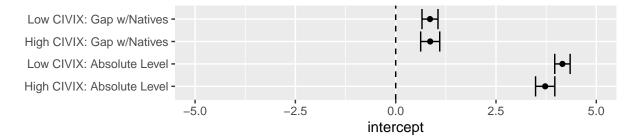


Figure 10: Difficulties in making political decisions by CIVIX in EU-15, < 10 yrs

```
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # absolute level
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
# length(hincfel.h.1$residuals) 1187
# length(hincfel.l.1$residuals) 1622
absolute.h = as.vector(c(hincfel.h.1\$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr, family = binomial
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr, family = binomial
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
```

length(employ.h.1\$residuals) 1238

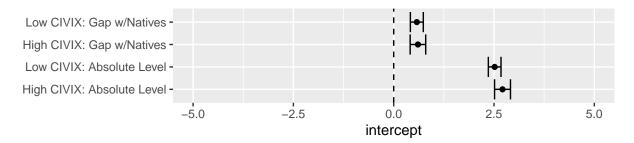


Figure 11: Financial situation by CIVIX in EU-15, < 10 yrs

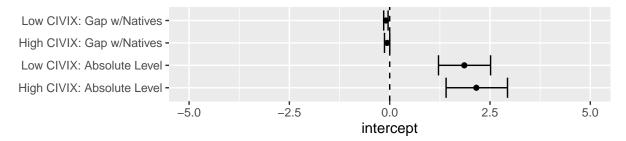


Figure 12: Employment by CIVIX, < 10 yrs

```
# length(employ.l.1$residuals) 1646
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.1 = as.vector(c(employ.1.1$coefficients[1],confint(employ.1.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
ppltrst.1.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
# length(ppltrst.h.1$residuals) 1231
# length(ppltrst.l.1$residuals) 1632
absolute.h = as.vector(c(ppltrst.h.1\$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.1.1$coefficients[1],confint(ppltrst.1.1)[1,]))
```

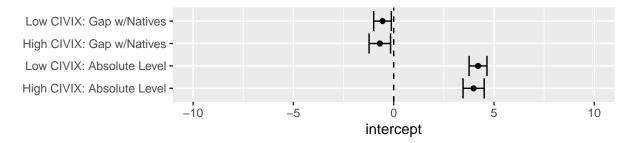


Figure 13: General trust by CIVIX in EU-15, < 10 yrs

```
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.l = as.vector(c(ppltrst.l.2$coefficients[1],confint(ppltrst.l.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
absolute.h = as.vector(c(pplfair.h.1\$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.1 = as.vector(c(pplfair.1.1$coefficients[1],confint(pplfair.1.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.1 = as.vector(c(pplfair.1.2$coefficients[1],confint(pplfair.1.2)[1,]))
pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))
ggplot(pplfair.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

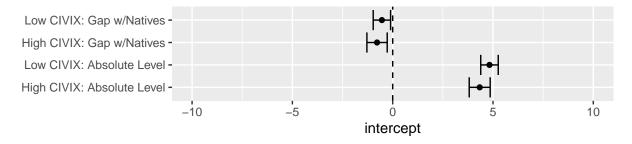


Figure 14: People being fair by CIVIX in EU-15, < 10 yrs

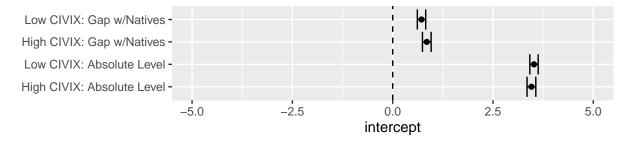


Figure 15: Political interests by CIVIX in EU-15, foreign-borns

Foreign borns

length(polintr.h.1\$residuals) 1803

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # absolute level
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # absolute level
polintr.1.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # qap
absolute.h = as.vector(c(polintr.h.1\$coefficients[1],confint(polintr.h.1)[1,]))
absolute.1 = as.vector(c(polintr.1.1$coefficients[1],confint(polintr.1.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.1 = as.vector(c(polintr.1.2$coefficients[1],confint(polintr.1.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # absolute level
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # gap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # absolute level
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # qap
```

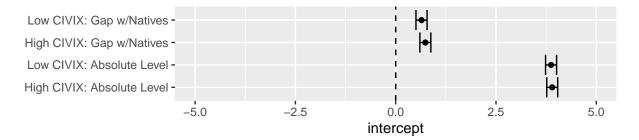


Figure 16: Politics as complicated by CIVIX in EU-15, foreign-borns

```
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1\$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # absolute level
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # gap
poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # absolute level
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.l = as.vector(c(poldcs.l.2$coefficients[1],confint(poldcs.l.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
```

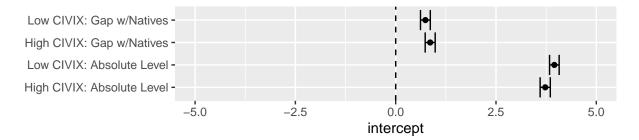


Figure 17: Difficulties in making political decisions by CIVIX in EU-15, foreign-borns

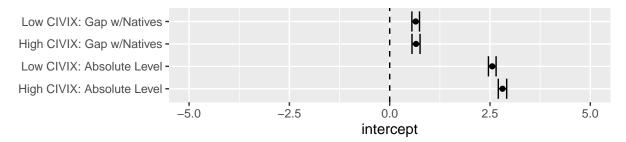


Figure 18: Financial situation by CIVIX in EU-15, foreign-borns

```
geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # absolute level
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # absolute level
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # qap
# length(hincfel.h.1$residuals) 4101
# length(hincfel.l.1$residuals) 4379
absolute.h = as.vector(c(hincfel.h.1\$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
 geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
```

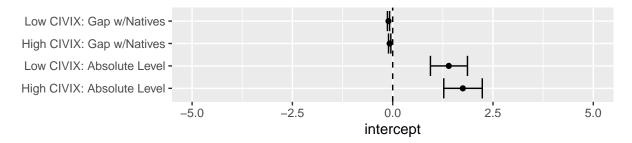


Figure 19: Employment by CIVIX, foreign-borns

```
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn, family = binomial
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn, family = binomial
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # qap
# length(employ.h.1$residuals)
# length(employ.l.1$residuals)
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.1 = as.vector(c(employ.1.1$coefficients[1],confint(employ.1.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # absolute level
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # gap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # absolute level
ppltrst.1.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # qap
# length(ppltrst.h.1$residuals) 4388
# length(ppltrst.l.1$residuals) 4398
absolute.h = as.vector(c(ppltrst.h.1\$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.1.1$coefficients[1],confint(ppltrst.1.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.l = as.vector(c(ppltrst.l.2$coefficients[1],confint(ppltrst.l.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
```

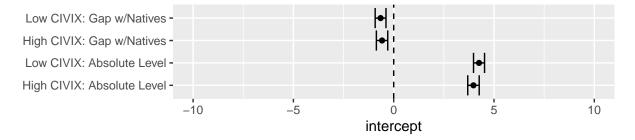


Figure 20: General trust by CIVIX in EU-15, foreign-borns

```
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # absolute level
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # qap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # absolute level
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.fborn) # gap
absolute.h = as.vector(c(pplfair.h.1\$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.1 = as.vector(c(pplfair.1.1$coefficients[1],confint(pplfair.1.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.l = as.vector(c(pplfair.1.2$coefficients[1],confint(pplfair.1.2)[1,]))
pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))
ggplot(pplfair.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
```

Thinking about birthright citizenship

```
list.cntry = as.vector(unique(ess_raw$cntry))
birthright = c("GB", "PT", "DE", "BE", "DK", "FR", "NL")
no.birthright = list.cntry[!list.cntry %in% birthright]
h.civix = c("DK", "NL", "DE", "AT", "FR", "GB", "GR")
```

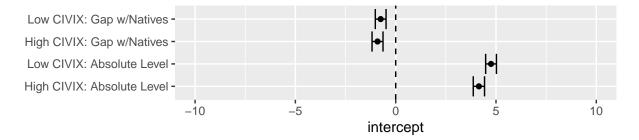


Figure 21: People being fair by CIVIX in EU-15, foreign-borns

```
1.civix = c("IE", "SE", "BE", "PT", "ES", "FI", "LU", "IT")
```

With birthright citizenship

```
b.h = birthright[birthright %in% h.civix]
b.l = birthright[birthright %in% l.civix]
dat.b.h = ess_raw %>% filter(cntry %in% b.h)
dat.b.h = dat.b.h %>% left_join(ess_mean, by='cntry')
dat.b.l = ess_raw %>% filter(cntry %in% b.l)
dat.b.l = dat.b.l %>% left_join(ess_mean, by='cntry')
dat.b.h.nonciti = dat.b.h %>% filter(citizen == 0)
dat.b.h.tenyr = dat.b.h %>% filter(residence == 1)
dat.b.h.fborn = dat.b.h %>% filter(fborn == 1)
dat.b.l.nonciti = dat.b.l %>% filter(citizen == 0)
dat.b.l.tenyr = dat.b.l %>% filter(residence == 1)
dat.b.l.fborn = dat.b.l %>% filter(fborn == 1)
dat.b.h.nonciti = dat.b.h.nonciti %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.b.l.nonciti = dat.b.l.nonciti %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
  )
```

```
dat.b.h.tenyr = dat.b.h.tenyr %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.b.l.tenyr = dat.b.l.tenyr %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
 hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.b.h.fborn = dat.b.h.fborn %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
 hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.b.l.fborn = dat.b.l.fborn %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.tenyr) # absolute lev
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.tenyr) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.tenyr) # absolute lev
polintr.1.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.tenyr) # gap
absolute.h = as.vector(c(polintr.h.1\$coefficients[1],confint(polintr.h.1)[1,]))
absolute.1 = as.vector(c(polintr.1.1$coefficients[1],confint(polintr.1.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.1 = as.vector(c(polintr.1.2$coefficients[1],confint(polintr.1.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
```

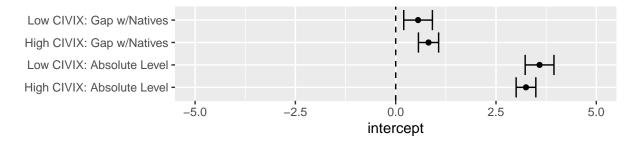


Figure 22: Political interests by CIVIX in countries with birthright citizenship, < 10 yrs

```
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.tenyr) # absolute lev
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.tenyr) # gap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.tenyr) # absolute lev
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.tenyr) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1\$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess h.tenyr) # absolute level
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
poldcs.l.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # gap
# length(polintr.h.1$residuals) 1803
```

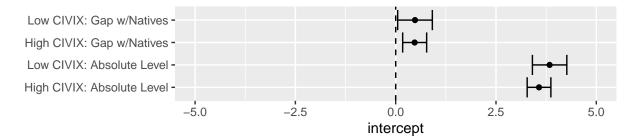


Figure 23: Politics as complicated by CIVIX in countries with birthright citizenship, < 10 yrs

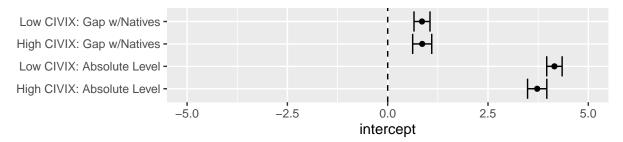


Figure 24: Difficulties in making political decisions by CIVIX in countries with birthright citizenship, < 10 yrs

```
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.l = as.vector(c(poldcs.l.2$coefficients[1],confint(poldcs.l.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # absolute level
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
# length(hincfel.h.1$residuals) 1187
# length(hincfel.l.1$residuals) 1622
absolute.h = as.vector(c(hincfel.h.1$coefficients[1],confint(hincfel.h.1)[1,]))
```

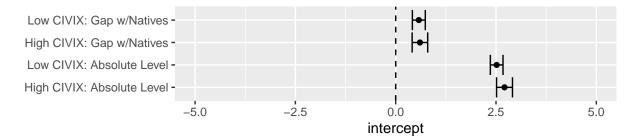


Figure 25: Financial situation by CIVIX in countries with birthright citizenship, < 10 yrs

```
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
  geom point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr, family = binomial
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr, family = binomial
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
# length(employ.h.1$residuals) 1238
# length(employ.l.1$residuals) 1646
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.1 = as.vector(c(employ.1.1$coefficients[1],confint(employ.1.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.1 = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

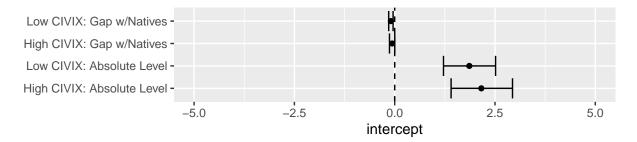


Figure 26: Employment by CIVIX in countries with birthright citizenship, < 10 yrs

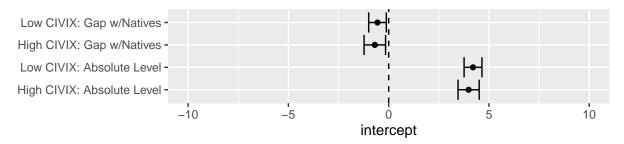


Figure 27: General trust by CIVIX in countries with birthright citizenship, < 10 yrs

```
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
ppltrst.1.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # gap
# length(ppltrst.h.1$residuals) 1231
# length(ppltrst.l.1$residuals) 1632
absolute.h = as.vector(c(ppltrst.h.1$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.l.1\$coefficients[1],confint(ppltrst.l.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.1 = as.vector(c(ppltrst.1.2$coefficients[1],confint(ppltrst.1.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
 geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom vline(xintercept = 0, linetype = "dashed") +
 ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # absolute level
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.tenyr) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
```

pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_1.tenyr) # qap

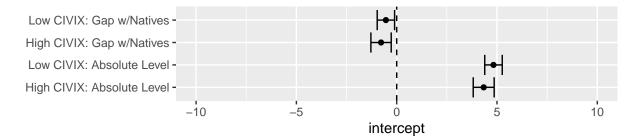


Figure 28: People being fair by CIVIX in countries with birthright citizenship, < 10 yrs

```
absolute.h = as.vector(c(pplfair.h.1$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.l = as.vector(c(pplfair.l.1$coefficients[1],confint(pplfair.l.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.l = as.vector(c(pplfair.l.2$coefficients[1],confint(pplfair.l.2)[1,]))

pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Higi pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))

ggplot(pplfair.1,aes(y=var)) +
   geom_point(aes(x = intercept)) +
   geom_point(aes(x = intercept)) +
   geom_errorbarh(aes(xmin = min, xmax = max)) +
   coord_cartesian(xlim = c(-10, 10)) +
   geom_vline(xintercept = 0, linetype = "dashed") +
   ylab("")
```

Non-citizens

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # absolute l
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # qap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # absolute l
polintr.1.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # gap
absolute.h = as.vector(c(polintr.h.1$coefficients[1],confint(polintr.h.1)[1,]))
absolute.1 = as.vector(c(polintr.1.1$coefficients[1],confint(polintr.1.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.l = as.vector(c(polintr.1.2$coefficients[1],confint(polintr.1.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
```

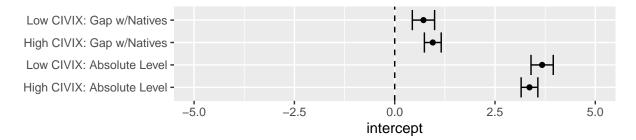


Figure 29: Political interests by CIVIX in countries with birthright citizenship, noncitizens

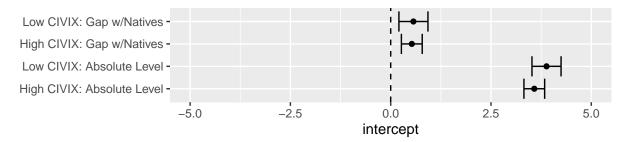


Figure 30: Politics as complicated by CIVIX in countries with birthright citizenship, noncitizens

```
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # absolute l
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # qap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.nonciti) # absolute l
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1\$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # absolute lev
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # qap
```

poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # absolute lev

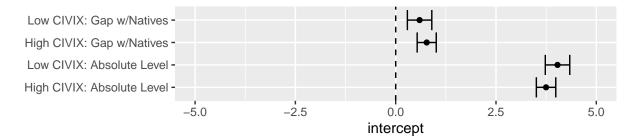


Figure 31: Difficulties in making political decisions by CIVIX in countries with birthright citizenship, noncitizens

```
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.1 = as.vector(c(poldcs.1.2$coefficients[1],confint(poldcs.1.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # absolute l
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.nonciti) # absolute l
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # qap
# length(hincfel.h.1$residuals) 1187
# length(hincfel.l.1$residuals) 1622
absolute.h = as.vector(c(hincfel.h.1$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
```

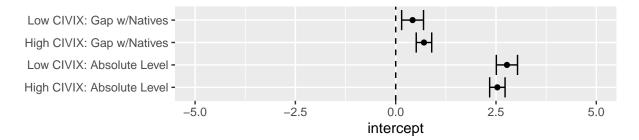


Figure 32: Financial situation by CIVIX in countries with birthright citizenship, noncitizens

```
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti, family = binor
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti, family = binor
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # gap
# length(employ.h.1$residuals) 1238
# length(employ.l.1$residuals) 1646
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.1 = as.vector(c(employ.1.1$coefficients[1],confint(employ.1.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.1 = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # absolute l
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # qap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # absolute l
ppltrst.l.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # gap
# length(ppltrst.h.1$residuals) 1231
# length(ppltrst.l.1$residuals) 1632
```

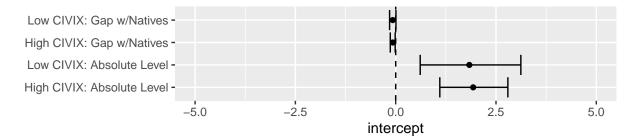


Figure 33: Employment by CIVIX in countries with birthright citizenship, noncitizens

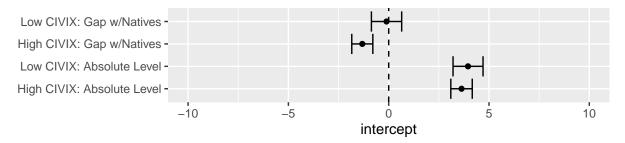


Figure 34: General trust by CIVIX in countries with birthright citizenship, noncitizens

```
absolute.h = as.vector(c(ppltrst.h.1\$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.1.1$coefficients[1],confint(ppltrst.1.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.1 = as.vector(c(ppltrst.1.2$coefficients[1],confint(ppltrst.1.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # absolute l
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.nonciti) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # absolute l
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.nonciti) # gap
absolute.h = as.vector(c(pplfair.h.1\$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.1 = as.vector(c(pplfair.1.1$coefficients[1],confint(pplfair.1.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.1 = as.vector(c(pplfair.1.2$coefficients[1],confint(pplfair.1.2)[1,]))
pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
```

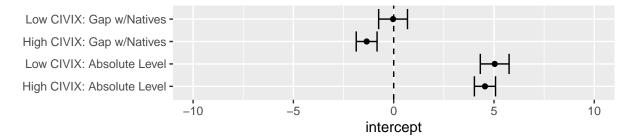


Figure 35: People being fair by CIVIX in countries with birthright citizenship, noncitizens

```
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))

ggplot(pplfair.1,aes(y=var)) +
    geom_point(aes(x = intercept)) +
    geom_errorbarh(aes(xmin = min, xmax = max)) +
    coord_cartesian(xlim = c(-10, 10)) +
    geom_vline(xintercept = 0, linetype = "dashed") +
    ylab("")
```

Foreign-borns

length(polintr.h.2\$residuals) 1803

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # absolute lev
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # absolute lev
polintr.1.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.fborn) # qap
absolute.h = as.vector(c(polintr.h.1$coefficients[1],confint(polintr.h.1)[1,]))
absolute.1 = as.vector(c(polintr.1.1$coefficients[1],confint(polintr.1.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.1 = as.vector(c(polintr.1.2$coefficients[1],confint(polintr.1.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # absolute lev
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # gap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.fborn) # absolute lev
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # qap
# length(polintr.h.1$residuals) 1803
```

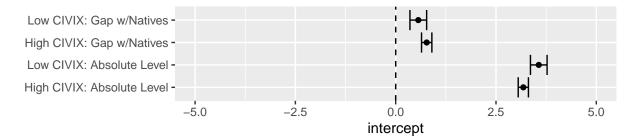


Figure 36: Political interests by CIVIX in countries with birthright citizenship, foreign-borns

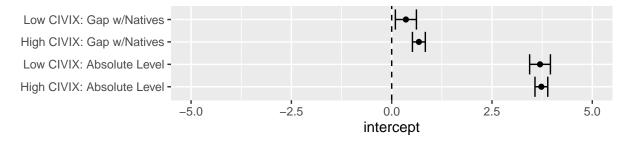


Figure 37: Politics as complicated by CIVIX in countries with birthright citizenship, foreign-borns

```
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.l = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # absolute level
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # gap
poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # absolute level
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
```

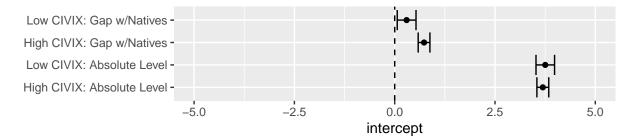


Figure 38: Difficulties in making political decisions by CIVIX in countries with birthright citizenship, foreign-brons

```
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.l = as.vector(c(poldcs.l.2$coefficients[1],confint(poldcs.l.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # absolute lev
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.fborn) # absolute lev
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # gap
# length(hincfel.h.1$residuals) 1187
# length(hincfel.l.1$residuals) 1622
absolute.h = as.vector(c(hincfel.h.1\$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
  geom point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

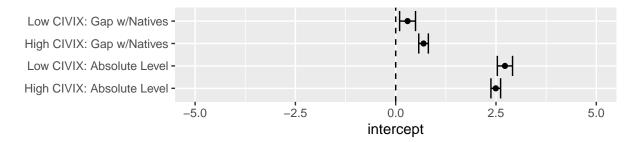


Figure 39: Financial situation by CIVIX in countries with birthright citizenship, foreign-borns

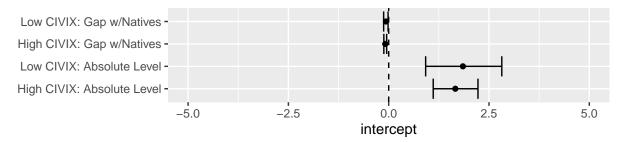


Figure 40: Employment by CIVIX in countries with birthright citizenship, foreign-borns

```
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn, family = binomi
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.b.1.fborn, family = binomi
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # gap
# length(employ.h.1$residuals) 1238
# length(employ.l.1$residuals) 1646
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.l = as.vector(c(employ.l.1$coefficients[1],confint(employ.l.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom vline(xintercept = 0, linetype = "dashed") +
 ylab("")
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # absolute lev
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # gap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # absolute lev
```

ppltrst.1.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # qap

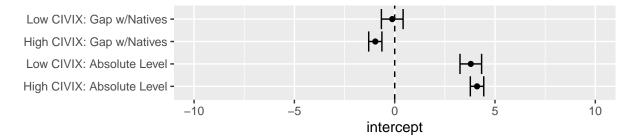


Figure 41: General trust by CIVIX in countries with birthright citizenship, foreign-borns

```
# length(ppltrst.h.1$residuals) 1231
# length(ppltrst.l.1$residuals) 1632
absolute.h = as.vector(c(ppltrst.h.1$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.1.1$coefficients[1],confint(ppltrst.1.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.1 = as.vector(c(ppltrst.1.2$coefficients[1],confint(ppltrst.1.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # absolute lev
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.h.fborn) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # absolute lev
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.b.l.fborn) # gap
absolute.h = as.vector(c(pplfair.h.1\$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.1 = as.vector(c(pplfair.1.1$coefficients[1],confint(pplfair.1.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.l = as.vector(c(pplfair.1.2$coefficients[1],confint(pplfair.1.2)[1,]))
pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))
ggplot(pplfair.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
```

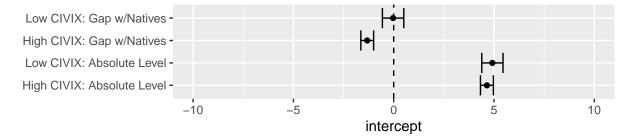


Figure 42: People being fair by CIVIX in countries with birthright citizenship, foreign-borns

```
ylab("")
```

W/o birthright citizenship

```
n.b.h = no.birthright[no.birthright %in% h.civix]
n.b.l = no.birthright[no.birthright %in% l.civix]
dat.n.b.h = ess_raw %>% filter(cntry %in% n.b.h)
dat.n.b.h = dat.n.b.h %>% left_join(ess_mean, by='cntry')
dat.n.b.l = ess_raw %>% filter(cntry %in% n.b.l)
dat.n.b.l = dat.n.b.l %>% left_join(ess_mean, by='cntry')
dat.n.b.h.nonciti = dat.n.b.h %>% filter(citizen == 0)
dat.n.b.h.tenyr = dat.n.b.h %>% filter(residence == 1)
dat.n.b.h.fborn = dat.n.b.h %>% filter(fborn == 1)
dat.n.b.l.nonciti = dat.n.b.l %>% filter(citizen == 0)
dat.n.b.l.tenyr = dat.n.b.l %>% filter(residence == 1)
dat.n.b.l.fborn = dat.n.b.l %>% filter(fborn == 1)
dat.n.b.h.nonciti = dat.n.b.h.nonciti %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.n.b.l.nonciti = dat.n.b.l.nonciti %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
```

```
dat.n.b.h.tenyr = dat.n.b.h.tenyr %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.n.b.l.tenyr = dat.n.b.l.tenyr %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
 hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.n.b.h.fborn = dat.n.b.h.fborn %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
 hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
dat.n.b.l.fborn = dat.n.b.l.fborn %>% mutate(
  poli.gap = polintr - mean.poli,
  employ.gap = employ - mean.employ,
  hincfel.gap = hincfel - mean.hincfel,
  ppltrst.gap = ppltrst - mean.ppltrst,
  pplfair.gap = pplfair - mean.pplfair,
  polcmpl.gap = polcmpl - mean.polcmpl,
  poldcs.gap = poldcs - mean.poldcs
```

Ten-year residence

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # absolute l
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # absolute l
polintr.l.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # gap
absolute.h = as.vector(c(polintr.h.1$coefficients[1],confint(polintr.h.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.l = as.vector(c(polintr.l.2$coefficients[1],confint(polintr.l.2)[1,]))
```

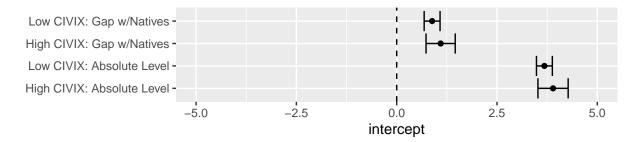


Figure 43: Political interests by CIVIX in countries w/o birthright citizenship, < 10 yrs

```
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # absolute l
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # gap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.1.tenyr) # absolute l
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  vlab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # absolute lev
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # gap
```

poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # absolute lev

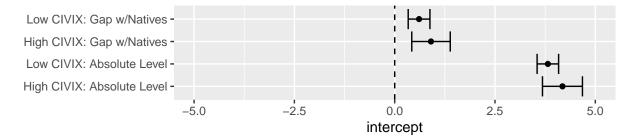


Figure 44: Politics as complicated by CIVIX in countries w/o birthright citizenship, < 10 yrs

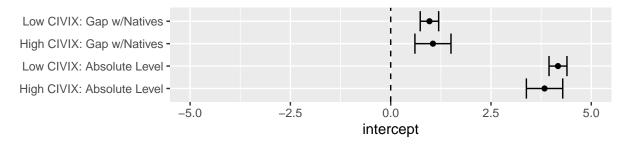


Figure 45: Difficulties in making political decisions by CIVIX in countries w/o birthright citizenship, < 10 yrs

```
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # qap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.1 = as.vector(c(poldcs.1.2$coefficients[1],confint(poldcs.1.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # absolute l
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.1.tenyr) # absolute l
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # gap
# length(hincfel.h.1$residuals) 1187
```

length(hincfel.l.1\$residuals) 1622

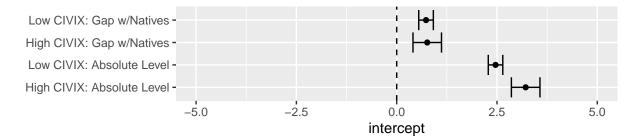


Figure 46: Financial situation by CIVIX in countries w/o birthright citizenship, < 10 yrs

```
absolute.h = as.vector(c(hincfel.h.1\$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr, family = binor
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.1.tenyr, family = binor
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # gap
# length(employ.h.1$residuals) 1238
# length(employ.l.1$residuals) 1646
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.1 = as.vector(c(employ.1.1$coefficients[1],confint(employ.1.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.1 = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
```

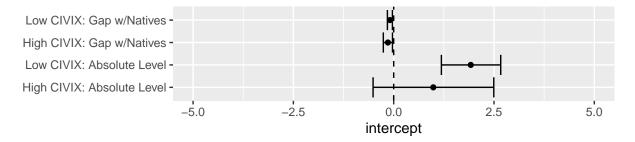


Figure 47: Employment by CIVIX in countries w/o birthright citizenship, < 10 yrs

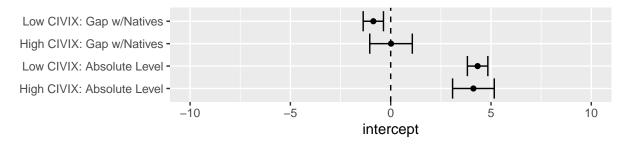


Figure 48: General trust by CIVIX in countries w/o birthright citizenship, < 10 yrs

```
ylab("")
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # absolute l
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # qap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # absolute l
ppltrst.l.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # gap
# length(ppltrst.h.1$residuals) 1231
# length(ppltrst.l.1$residuals) 1632
absolute.h = as.vector(c(ppltrst.h.1\$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.l.1\$coefficients[1],confint(ppltrst.l.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.1 = as.vector(c(ppltrst.1.2$coefficients[1],confint(ppltrst.1.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # absolute l
```

pplfair.h.2 = $lm(pplfair.gap \sim agea + ethnic + female + edu + eubirth, data = dat.n.b.h.tenyr) # gap pplfair.l.1 = <math>lm(pplfair \sim agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # absolute l$

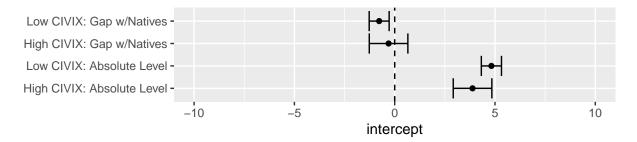


Figure 49: People being fair by CIVIX in countries w/o birthright citizenship, < 10 yrs

```
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.tenyr) # gap
absolute.h = as.vector(c(pplfair.h.1$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.l = as.vector(c(pplfair.l.1$coefficients[1],confint(pplfair.l.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.l = as.vector(c(pplfair.l.2$coefficients[1],confint(pplfair.l.2)[1,]))

pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level','Hig
pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))

ggplot(pplfair.1,aes(y=var)) +
   geom_point(aes(x = intercept)) +
   geom_errorbarh(aes(xmin = min, xmax = max)) +
   coord_cartesian(xlim = c(-10, 10)) +
   geom_vline(xintercept = 0, linetype = "dashed") +
   ylab("")
```

Non-citizens

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # absolute
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # absolute
polintr.l.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # gap

absolute.h = as.vector(c(polintr.h.1$coefficients[1],confint(polintr.h.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.l = as.vector(c(polintr.l.2$coefficients[1],confint(polintr.h.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
polintr.1$var = factor(polintr.1.$var, as.character(polintr.1.$var))

ggplot(polintr.1,aes(y=var)) +
    geom_point(aes(x = intercept)) +
    geom_errorbarh(aes(xmin = min, xmax = max)) +
```

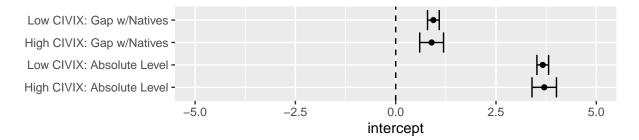


Figure 50: Political interests by CIVIX in countries w/o birthright citizenship, noncitizens

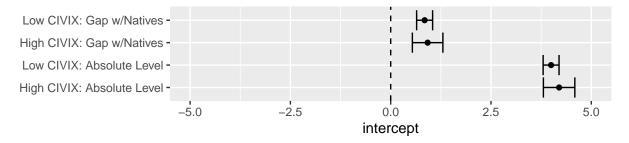


Figure 51: Politics as complicated by CIVIX in countries w/o birthright citizenship, noncitizens

```
coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # absolute
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # gap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.1.nonciti) # absolute
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1\$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

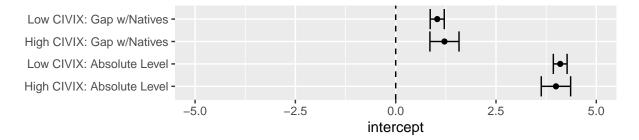


Figure 52: Difficulties in making political decisions by CIVIX in countries w/o birthright citizenship, noncitizens

```
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # absolute l
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # gap
poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # absolute l
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # qap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.l = as.vector(c(poldcs.1.2$coefficients[1],confint(poldcs.1.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # absolute
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # absolute
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # gap
# length(hincfel.h.1$residuals) 1187
# length(hincfel.l.1$residuals) 1622
absolute.h = as.vector(c(hincfel.h.1\$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.l = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
```

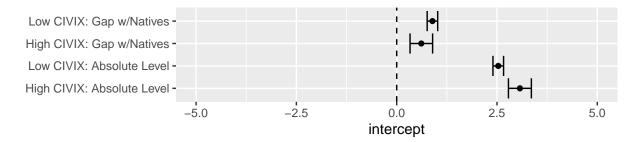


Figure 53: Financial situation by CIVIX in countries w/o birthright citizenship, noncitizens

```
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti, family = bi
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # gap
employ.1.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.1.nonciti, family = bi
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # gap
# length(employ.h.1$residuals) 1238
# length(employ.l.1$residuals) 1646
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.l = as.vector(c(employ.l.1$coefficients[1],confint(employ.l.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # absolute
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # qap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # absolute
```

ppltrst.l.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # gap

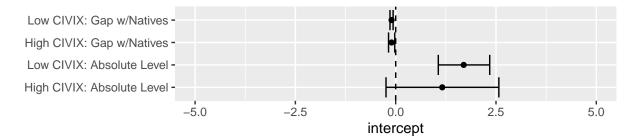


Figure 54: Employment by CIVIX in countries w/o birthright citizenship, noncitizens

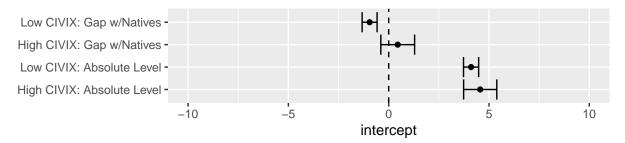


Figure 55: General trust by CIVIX in countries w/o birthright citizenship, noncitizens

```
# length(ppltrst.h.1$residuals) 1231
# length(ppltrst.l.1$residuals) 1632
absolute.h = as.vector(c(ppltrst.h.1\$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.1.1$coefficients[1],confint(ppltrst.1.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.l = as.vector(c(ppltrst.1.2$coefficients[1],confint(ppltrst.1.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # absolute
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.nonciti) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # absolute
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.nonciti) # gap
absolute.h = as.vector(c(pplfair.h.1\$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.1 = as.vector(c(pplfair.1.1$coefficients[1],confint(pplfair.1.1)[1,]))
```

gap.h = as.vector(c(pplfair.h.2\$coefficients[1],confint(pplfair.h.2)[1,]))

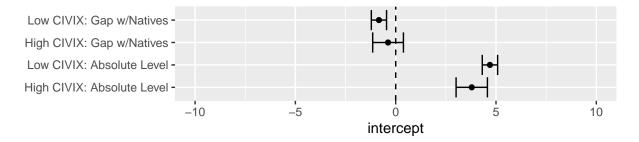


Figure 56: People being fair by CIVIX in countries w/o birthright citizenship, noncitizens

```
gap.1 = as.vector(c(pplfair.1.2$coefficients[1],confint(pplfair.1.2)[1,]))
pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))
ggplot(pplfair.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
```

Foreign-borns

```
polintr.h.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # absolute l
polintr.h.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # gap
polintr.l.1 = lm(polintr ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # absolute l
polintr.1.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # gap
absolute.h = as.vector(c(polintr.h.1\$coefficients[1],confint(polintr.h.1)[1,]))
absolute.1 = as.vector(c(polintr.1.1$coefficients[1],confint(polintr.1.1)[1,]))
gap.h = as.vector(c(polintr.h.2$coefficients[1],confint(polintr.h.2)[1,]))
gap.l = as.vector(c(polintr.1.2$coefficients[1],confint(polintr.1.2)[1,]))
polintr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polintr.1) = c("intercept", "min", "max")
polintr.1 = polintr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
polintr.1$var = factor(polintr.1$var, as.character(polintr.1$var))
ggplot(polintr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
polcmpl.h.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # absolute l
polcmpl.h.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # gap
polcmpl.1.1 = lm(polcmpl ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.1.fborn) # absolute l
```

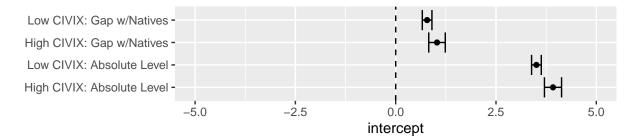


Figure 57: Political interests by CIVIX in countries w/o birthright citizenship, foreign-borns

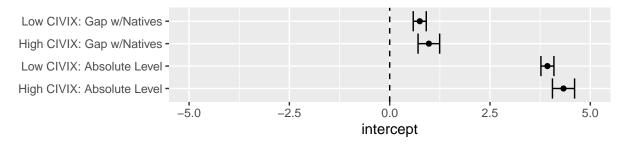


Figure 58: Politics as complicated by CIVIX in countries w/o birthright citizenship, foreign-borns

```
polcmpl.1.2 = lm(polcmpl.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # gap
# length(polintr.h.1$residuals) 1803
# length(polintr.h.2$residuals) 1803
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(polcmpl.h.1\$coefficients[1],confint(polcmpl.h.1)[1,]))
absolute.1 = as.vector(c(polcmpl.1.1$coefficients[1],confint(polcmpl.1.1)[1,]))
gap.h = as.vector(c(polcmpl.h.2$coefficients[1],confint(polcmpl.h.2)[1,]))
gap.1 = as.vector(c(polcmpl.1.2$coefficients[1],confint(polcmpl.1.2)[1,]))
polcmpl.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(polcmpl.1) = c("intercept", "min", "max")
polcmpl.1 = polcmpl.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
polcmpl.1$var = factor(polcmpl.1$var, as.character(polcmpl.1$var))
ggplot(polcmpl.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
poldcs.h.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # absolute lev
poldcs.h.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # gap
poldcs.l.1 = lm(poldcs ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # absolute lev
poldcs.1.2 = lm(poldcs.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # gap
# length(polintr.h.1$residuals) 1803
```

length(polintr.h.2\$residuals) 1803

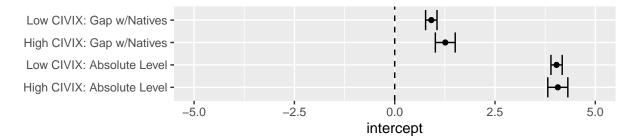


Figure 59: Difficulties in making political decisions by CIVIX in countries w/o birthright citizenship, foreign-borns

```
# length(polintr.l.1$residuals) 2659
absolute.h = as.vector(c(poldcs.h.1$coefficients[1],confint(poldcs.h.1)[1,]))
absolute.1 = as.vector(c(poldcs.1.1$coefficients[1],confint(poldcs.1.1)[1,]))
gap.h = as.vector(c(poldcs.h.2$coefficients[1],confint(poldcs.h.2)[1,]))
gap.l = as.vector(c(poldcs.1.2$coefficients[1],confint(poldcs.1.2)[1,]))
poldcs.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(poldcs.1) = c("intercept", "min", "max")
poldcs.1 = poldcs.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
poldcs.1$var = factor(poldcs.1$var, as.character(poldcs.1$var))
ggplot(poldcs.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
hincfel.h.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # absolute l
hincfel.h.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # gap
hincfel.1.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.1.fborn) # absolute l
hincfel.1.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # gap
# length(hincfel.h.1$residuals) 1187
# length(hincfel.l.1$residuals) 1622
absolute.h = as.vector(c(hincfel.h.1\$coefficients[1],confint(hincfel.h.1)[1,]))
absolute.1 = as.vector(c(hincfel.1.1$coefficients[1],confint(hincfel.1.1)[1,]))
gap.h = as.vector(c(hincfel.h.2$coefficients[1],confint(hincfel.h.2)[1,]))
gap.1 = as.vector(c(hincfel.1.2$coefficients[1],confint(hincfel.1.2)[1,]))
hincfel.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hincfel.1) = c("intercept", "min", "max")
hincfel.1 = hincfel.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))
ggplot(hincfel.1,aes(y=var)) +
 geom_point(aes(x = intercept)) +
```

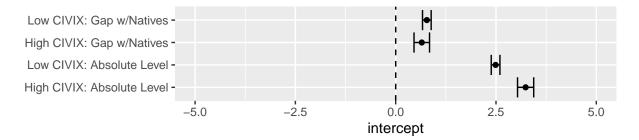


Figure 60: Financial situation by CIVIX in countries w/o birthright citizenship, foreign-borns

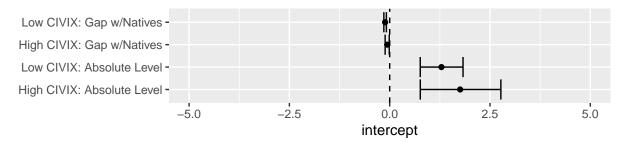


Figure 61: Employment by CIVIX in countries w/o birthright citizenship, foreign-borns

```
geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
employ.h.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn, family = binor
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # gap
employ.l.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn, family = binor
employ.1.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # gap
# length(employ.h.1$residuals) 1238
# length(employ.l.1$residuals) 1646
absolute.h = as.vector(c(employ.h.1$coefficients[1],confint(employ.h.1)[1,]))
absolute.1 = as.vector(c(employ.1.1$coefficients[1],confint(employ.1.1)[1,]))
gap.h = as.vector(c(employ.h.2$coefficients[1],confint(employ.h.2)[1,]))
gap.1 = as.vector(c(employ.1.2$coefficients[1],confint(employ.1.2)[1,]))
employ.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(employ.1) = c("intercept", "min", "max")
employ.1 = employ.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
employ.1$var = factor(employ.1$var, as.character(employ.1$var))
ggplot(employ.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

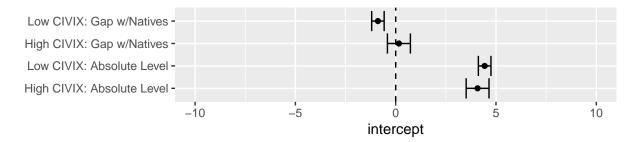


Figure 62: General trust by CIVIX in countries w/o birthright citizenship, foreign-borns

```
ppltrst.h.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # absolute l
ppltrst.h.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # gap
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # absolute l
ppltrst.1.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # gap
# length(ppltrst.h.1$residuals) 1231
# length(ppltrst.l.1$residuals) 1632
absolute.h = as.vector(c(ppltrst.h.1\$coefficients[1],confint(ppltrst.h.1)[1,]))
absolute.1 = as.vector(c(ppltrst.l.1\$coefficients[1],confint(ppltrst.l.1)[1,]))
gap.h = as.vector(c(ppltrst.h.2$coefficients[1],confint(ppltrst.h.2)[1,]))
gap.l = as.vector(c(ppltrst.l.2$coefficients[1],confint(ppltrst.l.2)[1,]))
ppltrst.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(ppltrst.1) = c("intercept", "min", "max")
ppltrst.1 = ppltrst.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
ggplot(ppltrst.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
pplfair.h.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # absolute l
pplfair.h.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.h.fborn) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # absolute l
pplfair.1.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = dat.n.b.l.fborn) # gap
absolute.h = as.vector(c(pplfair.h.1\$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.1 = as.vector(c(pplfair.1.1$coefficients[1],confint(pplfair.1.1)[1,]))
gap.h = as.vector(c(pplfair.h.2$coefficients[1],confint(pplfair.h.2)[1,]))
gap.l = as.vector(c(pplfair.1.2$coefficients[1],confint(pplfair.1.2)[1,]))
pplfair.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplfair.1) = c("intercept", "min", "max")
pplfair.1 = pplfair.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
pplfair.1$var = factor(pplfair.1$var, as.character(pplfair.1$var))
```

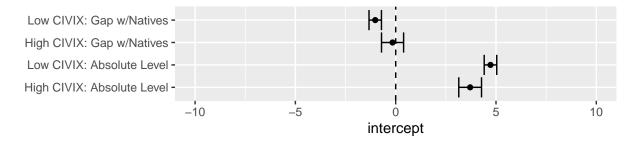


Figure 63: People being fair by CIVIX in countries w/o birthright citizenship, foreign-borns

```
ggplot(pplfair.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

Testing different DVs

Political Incorporation

```
# ess raw$tupol # TV watching news/politics/current affairs on average weekday
# ess_raw$rdpol # Radio listening, news/politics/current affairs on average weekday
# ess_raw$nwsppol # Newspaper reading, politics/current affairs on average weekday
# ess raw$contplt # Contacted politician or government official last 12 months
# ess_raw$wrkprty # Worked in political party or action group last 12 months
# ess_raw$wrkorg # Worked in another organisation or association last 12 months
#
# ess_raw$badge # Worn or displayed campaign badge/sticker last 12 months
# ess_raw$sqnptit # Signed petition last 12 months
# ess_raw$pbldmn # Taken part in lawful public demonstration last 12 months
# ess raw$bctprd # Boycotted certain products last 12 months
## ess_raw$dntmny # Donated money to political organisation or group last 12 months
## ess_raw$ilglpst # Participated illegal protest activities last 12 months
# ess_raw$stfgov # How satisfied with the national government
ess_raw$tvpol = ifelse(ess_raw$tvpol > 8, NA, ess_raw$tvpol)
ess_raw$rdpol = ifelse(ess_raw$rdpol > 8, NA, ess_raw$rdpol)
```

```
ess_raw$nwsppol = ifelse(ess_raw$nwsppol > 8, NA, ess_raw$nwsppol)
pol_mean = ess_raw %>% filter(citizen == 1, fborn == 0) %>% group_by(cntry) %>%
  select(cntry, contplt, wrkprty, wrkorg, badge, sgnptit, pbldmn, bctprd, stfgov, tvpol, rdpol, nwsppol
  summarise(mean.contplt = mean(contplt, na.rm = TRUE),
            mean.wrkprty = mean(wrkprty, na.rm = TRUE),
            mean.wrkorg = mean(wrkorg, na.rm = TRUE),
            mean.badge = mean(badge, na.rm = TRUE),
            mean.sgnptit = mean(sgnptit, na.rm = TRUE),
            mean.pbldmn = mean(pbldmn, na.rm = TRUE),
            mean.bctprd = mean(bctprd, na.rm = TRUE),
            # mean.dntmny = mean(dntmny, na.rm = TRUE),
            # mean.ilqlpst = mean(ilqlpst, na.rm = TRUE),
            mean.stfgov = mean(stfgov, na.rm = TRUE),
            mean.tvpol = mean(tvpol, na.rm = TRUE),
            mean.rdpol = mean(rdpol, na.rm = TRUE),
            mean.nwsppol = mean(nwsppol, na.rm = TRUE))
ess_pol = ess_raw %>% filter(residence == 1)
ess_pol = ess_pol %>% left_join(pol_mean, by='cntry')
pol_h = ess_pol %>% filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR"))
pol_1 = ess_pol %>% filter(cntry %in% c("IE", "SE", "BE", "PT", "ES", "FI", "LU", "IT"))
pol_h = pol_h %>% mutate(
  contplt.gap = contplt - mean.contplt,
  wrkprty.gap = wrkprty - mean.wrkprty,
  wrkorg.gap = wrkorg - mean.wrkorg,
  badge.gap = badge - mean.badge,
  sgnptit.gap = sgnptit - mean.sgnptit,
  pbldmn.gap = pbldmn - mean.pbldmn,
  bctprd.gap = bctprd - mean.bctprd,
  stfgov.gap = stfgov - mean.stfgov,
  tvpol.gap = tvpol - mean.tvpol,
  rdpol.gap = rdpol - mean.rdpol,
  nwsppol.gap = nwsppol - mean.nwsppol
  )
pol_l = pol_l %>% mutate(
  contplt.gap = contplt - mean.contplt,
  wrkprty.gap = wrkprty - mean.wrkprty,
  wrkorg.gap = wrkorg - mean.wrkorg,
  badge.gap = badge - mean.badge,
  sgnptit.gap = sgnptit - mean.sgnptit,
  pbldmn.gap = pbldmn - mean.pbldmn,
  bctprd.gap = bctprd - mean.bctprd,
  stfgov.gap = stfgov - mean.stfgov,
  tvpol.gap = tvpol - mean.tvpol,
  rdpol.gap = rdpol - mean.rdpol,
  nwsppol.gap = nwsppol - mean.nwsppol
  )
pol.h.1 = lm(contplt ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
pol.h.2 = lm(contplt.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
```

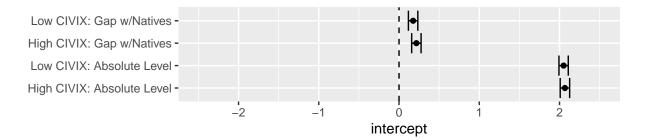


Figure 64: Whether have worked in political party or action group last 12 months

```
pol.l.1 = lm(contplt ~ agea + ethnic + female + edu + eubirth, data = pol 1) # absolute level
pol.1.2 = lm(contplt.gap ~ agea + ethnic + female + edu + eubirth, data = pol_1) # gap
absolute.h = as.vector(c(pol.h.1$coefficients[1],confint(pol.h.1)[1,]))
absolute.1 = as.vector(c(pol.1.1$coefficients[1],confint(pol.1.1)[1,]))
gap.h = as.vector(c(pol.h.2$coefficients[1],confint(pol.h.2)[1,]))
gap.l = as.vector(c(pol.1.2$coefficients[1],confint(pol.1.2)[1,]))
contplt.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(contplt.1) = c("intercept", "min", "max")
contplt.1 = contplt.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
contplt.1$var = factor(contplt.1$var, as.character(contplt.1$var))
ggplot(contplt.1,aes(y=var)) +
  geom point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-2.5, 2.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
wrkprty.h.1 = lm(wrkprty ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
wrkprty.h.2 = lm(wrkprty.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
wrkprty.l.1 = lm(wrkprty ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
wrkprty.1.2 = lm(wrkprty.gap ~ agea + ethnic + female + edu + eubirth, data = pol_1) # gap
absolute.h = as.vector(c(wrkprty.h.1\$coefficients[1],confint(wrkprty.h.1)[1,]))
absolute.1 = as.vector(c(wrkprty.1.1$coefficients[1],confint(wrkprty.1.1)[1,]))
gap.h = as.vector(c(wrkprty.h.2$coefficients[1],confint(wrkprty.h.2)[1,]))
gap.1 = as.vector(c(wrkprty.1.2$coefficients[1],confint(wrkprty.1.2)[1,]))
wrkprty.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(wrkprty.1) = c("intercept", "min", "max")
wrkprty.1 = wrkprty.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
wrkprty.1$var = factor(wrkprty.1$var, as.character(wrkprty.1$var))
ggplot(wrkprty.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2.5, 2.5)) +
```

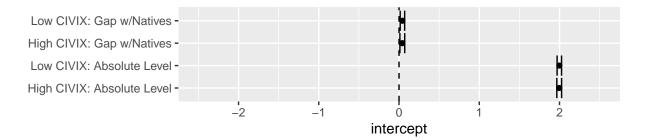


Figure 65: Whether have contacted politician or government official last 12 months

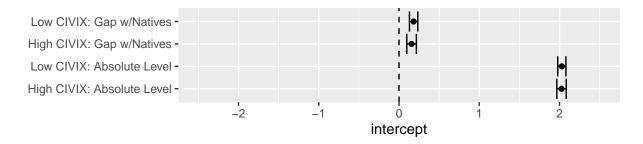


Figure 66: Whether have worked in political party or action group last 12 months

```
geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
wrkorg.h.1 = lm(wrkorg ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
wrkorg.h.2 = lm(wrkorg.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
wrkorg.l.1 = lm(wrkorg ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
wrkorg.1.2 = lm(wrkorg.gap ~ agea + ethnic + female + edu + eubirth, data = pol_1) # qap
absolute.h = as.vector(c(wrkorg.h.1$coefficients[1],confint(wrkorg.h.1)[1,]))
absolute.1 = as.vector(c(wrkorg.1.1$coefficients[1],confint(wrkorg.1.1)[1,]))
gap.h = as.vector(c(wrkorg.h.2$coefficients[1],confint(wrkorg.h.2)[1,]))
gap.l = as.vector(c(wrkorg.l.2$coefficients[1],confint(wrkorg.l.2)[1,]))
wrkorg.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(wrkorg.1) = c("intercept", "min", "max")
wrkorg.1 = wrkorg.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
wrkorg.1$var = factor(wrkorg.1$var, as.character(wrkorg.1$var))
ggplot(wrkorg.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2.5, 2.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  vlab("")
badge.h.1 = lm(badge ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
badge.h.2 = lm(badge.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
badge.l.1 = lm(badge ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
```

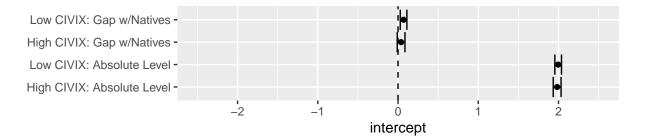


Figure 67: Whether have worn or displayed campaign badge/sticker last 12 months

```
badge.1.2 = lm(badge.gap ~ agea + ethnic + female + edu + eubirth, data = pol_1) # gap
absolute.h = as.vector(c(badge.h.1\$coefficients[1],confint(badge.h.1)[1,]))
absolute.1 = as.vector(c(badge.1.1$coefficients[1],confint(badge.1.1)[1,]))
gap.h = as.vector(c(badge.h.2$coefficients[1],confint(badge.h.2)[1,]))
gap.l = as.vector(c(badge.l.2$coefficients[1],confint(badge.l.2)[1,]))
badge.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(badge.1) = c("intercept", "min", "max")
badge.1 = badge.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High CI
badge.1$var = factor(badge.1$var, as.character(badge.1$var))
ggplot(badge.1,aes(y=var)) +
  geom point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2.5, 2.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
sgnptit.h.1 = lm(sgnptit ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
sgnptit.h.2 = lm(sgnptit.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
sgnptit.l.1 = lm(sgnptit ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
sgnptit.1.2 = lm(sgnptit.gap ~ agea + ethnic + female + edu + eubirth, data = pol_1) # gap
absolute.h = as.vector(c(sgnptit.h.1$coefficients[1],confint(sgnptit.h.1)[1,]))
absolute.1 = as.vector(c(sgnptit.1.1$coefficients[1],confint(sgnptit.1.1)[1,]))
gap.h = as.vector(c(sgnptit.h.2$coefficients[1],confint(sgnptit.h.2)[1,]))
gap.l = as.vector(c(sgnptit.1.2$coefficients[1],confint(sgnptit.1.2)[1,]))
sgnptit.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(sgnptit.1) = c("intercept", "min", "max")
sgnptit.1 = sgnptit.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
sgnptit.1$var = factor(sgnptit.1$var, as.character(sgnptit.1$var))
ggplot(sgnptit.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2.5, 2.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
```

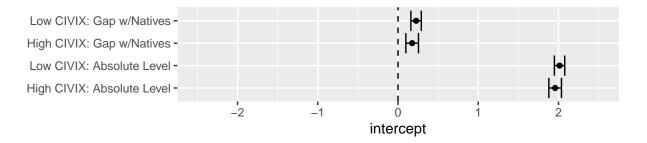


Figure 68: Whether signed petition last 12 months

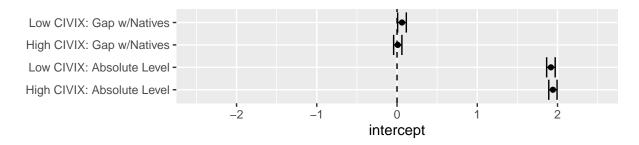


Figure 69: Whether taken part in lawful public demonstration last 12 months

```
ylab("")
pbldmn.h.1 = lm(pbldmn ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
pbldmn.h.2 = lm(pbldmn.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
pbldmn.l.1 = lm(pbldmn ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
pbldmn.1.2 = lm(pbldmn.gap ~ agea + ethnic + female + edu + eubirth, data = pol_1) # qap
absolute.h = as.vector(c(pbldmn.h.1$coefficients[1],confint(pbldmn.h.1)[1,]))
absolute.1 = as.vector(c(pbldmn.1.1$coefficients[1],confint(pbldmn.1.1)[1,]))
gap.h = as.vector(c(pbldmn.h.2$coefficients[1],confint(pbldmn.h.2)[1,]))
gap.l = as.vector(c(pbldmn.1.2$coefficients[1],confint(pbldmn.1.2)[1,]))
pbldmn.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pbldmn.1) = c("intercept", "min", "max")
pbldmn.1 = pbldmn.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
pbldmn.1$var = factor(pbldmn.1$var, as.character(pbldmn.1$var))
ggplot(pbldmn.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2.5, 2.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
bctprd.h.1 = lm(bctprd ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
bctprd.h.2 = lm(bctprd.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # qap
bctprd.l.1 = lm(bctprd ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
bctprd.l.2 = lm(bctprd.gap ~ agea + ethnic + female + edu + eubirth, data = pol_l) # gap
```

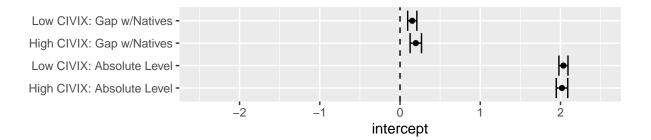


Figure 70: Whether boycotted certain products last 12 months

```
absolute.h = as.vector(c(bctprd.h.1$coefficients[1],confint(bctprd.h.1)[1,]))
absolute.1 = as.vector(c(bctprd.1.1$coefficients[1],confint(bctprd.1.1)[1,]))
gap.h = as.vector(c(bctprd.h.2$coefficients[1],confint(bctprd.h.2)[1,]))
gap.l = as.vector(c(bctprd.1.2$coefficients[1],confint(bctprd.1.2)[1,]))
bctprd.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(bctprd.1) = c("intercept", "min", "max")
bctprd.1 = bctprd.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
bctprd.1$var = factor(bctprd.1$var, as.character(bctprd.1$var))
ggplot(bctprd.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2.5, 2.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  vlab("")
stfgov.h.1 = lm(stfgov ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
stfgov.h.2 = lm(stfgov.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
stfgov.l.1 = lm(stfgov ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
stfgov.1.2 = lm(stfgov ~ agea + ethnic + female + edu + eubirth, data = pol_1) # qap
absolute.h = as.vector(c(stfgov.h.1$coefficients[1],confint(stfgov.h.1)[1,]))
absolute.1 = as.vector(c(stfgov.1.1$coefficients[1],confint(stfgov.1.1)[1,]))
gap.h = as.vector(c(stfgov.h.2$coefficients[1],confint(stfgov.h.2)[1,]))
gap.l = as.vector(c(stfgov.l.2$coefficients[1],confint(stfgov.l.2)[1,]))
stfgov.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(stfgov.1) = c("intercept", "min", "max")
stfgov.1 = stfgov.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High
stfgov.1$var = factor(stfgov.1$var, as.character(stfgov.1$var))
ggplot(stfgov.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

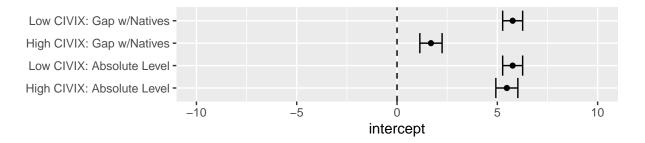


Figure 71: How satisfied with the national government

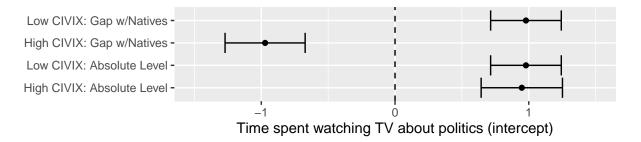
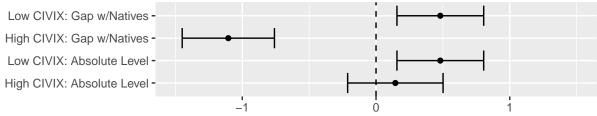


Figure 72: How much of your time watching television is spent watching news or programmes about politics? (0 to 3 hours or more)

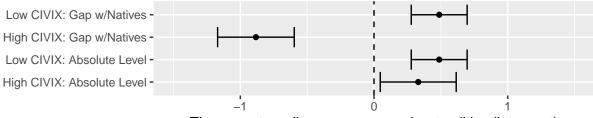
```
tvpol.h.1 = lm(tvpol ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
tvpol.h.2 = lm(tvpol.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # qap
tvpol.l.1 = lm(tvpol ~ agea + ethnic + female + edu + eubirth, data = pol_l) # absolute level
tvpol.1.2 = lm(tvpol ~ agea + ethnic + female + edu + eubirth, data = pol_1) # gap
absolute.h = as.vector(c(tvpol.h.1\$coefficients[1],confint(tvpol.h.1)[1,]))
absolute.1 = as.vector(c(tvpol.1.1$coefficients[1],confint(tvpol.1.1)[1,]))
gap.h = as.vector(c(tvpol.h.2$coefficients[1],confint(tvpol.h.2)[1,]))
gap.l = as.vector(c(tvpol.1.2$coefficients[1],confint(tvpol.1.2)[1,]))
tvpol.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(tvpol.1) = c("intercept", "min", "max")
tvpol.1 = tvpol.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High CI
tvpol.1$var = factor(tvpol.1$var, as.character(tvpol.1$var))
ggplot(tvpol.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-1.5, 1.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")+
  xlab("Time spent watching TV about politics (intercept)")
rdpol.h.1 = lm(rdpol ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
rdpol.h.2 = lm(rdpol.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
rdpol.1.1 = lm(rdpol ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
rdpol.1.2 = lm(rdpol ~ agea + ethnic + female + edu + eubirth, data = pol_1) # gap
```



Time spent listening to the radio about politics (intercept)

Figure 73: How much of your time listening to the radio is spent listening to news or programmes about politics? (0 to 3 hours or more)

```
absolute.h = as.vector(c(rdpol.h.1\$coefficients[1],confint(rdpol.h.1)[1,]))
absolute.1 = as.vector(c(rdpol.1.1$coefficients[1],confint(rdpol.1.1)[1,]))
gap.h = as.vector(c(rdpol.h.2$coefficients[1],confint(rdpol.h.2)[1,]))
gap.l = as.vector(c(rdpol.1.2$coefficients[1],confint(rdpol.1.2)[1,]))
rdpol.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(rdpol.1) = c("intercept", "min", "max")
rdpol.1 = rdpol.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High CI
rdpol.1$var = factor(rdpol.1$var, as.character(rdpol.1$var))
ggplot(rdpol.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1.5, 1.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")+
  xlab("Time spent listening to the radio about politics (intercept)")
nwsppol.h.1 = lm(nwsppol ~ agea + ethnic + female + edu + eubirth, data = pol_h) # absolute level
nwsppol.h.2 = lm(nwsppol.gap ~ agea + ethnic + female + edu + eubirth, data = pol_h) # gap
nwsppol.l.1 = lm(nwsppol ~ agea + ethnic + female + edu + eubirth, data = pol_1) # absolute level
nwsppol.1.2 = lm(nwsppol ~ agea + ethnic + female + edu + eubirth, data = pol_1) # gap
absolute.h = as.vector(c(nwsppol.h.1\$coefficients[1],confint(nwsppol.h.1)[1,]))
absolute.1 = as.vector(c(nwsppol.1.1$coefficients[1],confint(nwsppol.1.1)[1,]))
gap.h = as.vector(c(nwsppol.h.2$coefficients[1],confint(nwsppol.h.2)[1,]))
gap.l = as.vector(c(nwsppol.1.2$coefficients[1],confint(nwsppol.1.2)[1,]))
nwsppol.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(nwsppol.1) = c("intercept", "min", "max")
nwsppol.1 = nwsppol.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
nwsppol.1$var = factor(nwsppol.1$var, as.character(nwsppol.1$var))
ggplot(nwsppol.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1.5, 1.5)) +
```



Time spent reading newspapers about politics (intercept)

Figure 74: How much of your time reading newspapers is spent reading about about politics? (0 to 3 hours or more)

```
geom_vline(xintercept = 0, linetype = "dashed") +
ylab("") +
xlab("Time spent reading newspapers about politics (intercept)")
```

Social Incorporation

```
### social incorporation
# ess_raw$stflife # How satisfied with life as a whole
# table(ess_raw$pplhlp) # Most of the time people helpful or mostly looking out for themselves (0: look
# ess_raw$happy # How happy are you
## ess_raw$inmdisc # Anyone to discuss intimate and personal matters with
# ess_raw$aesfdrk # Feeling of safety of walking alone in local area after dark
# ess_raw$health # Subjective general health
# ess_raw$dscrgrp # Member of a group discriminated against in this country
#
# ess_raw$dscrrce # Discrimination of respondent's group: colour or race
#
# ess_raw$dscrntn # Discrimination of respondent's group: nationality
# # ess_raw$dscretn # Discrimination of respondent's group: ethnic group
# ess_raw$lnqhoma # Lanquage most often spoken at home: first mentioned *** COME BACK FOR THIS
#
 ### citizen involvement
#
 ess_raw$sptcptp # Sports/outdoor activity club, last 12 months: participated
# ess_raw$cltoptp # Cultural/hobby activity organisation, last 12 months: participated
# ess_raw$truptp # Trade union, last 12 months: participated
```

```
# ess_raw$prfoptp # Business/profession/farmers organisation, last 12 months: participated
# ess_raw$cnsoptp # Consumer/automobile organisation, last 12 months: participated
# ess_raw$hmnoptp # Humanitarian organisation etc., last 12 months: participated
# ess_raw$epaoptp # Environmental/peace/animal organisation, last 12 months: participated
# ess raw$rlqoptp # Religious/church organisation, last 12 months: participated
#
# ess_raw$prtyptp # Political party, last 12 months: participated
# ess_raw$setoptp # Science/education/teacher organisation, last 12 months: participated
# ess_raw$sclcptp # Social club etc., last 12 months: participated
# ess_raw$othuptp # Other voluntary organisation, last 12 months: participated
ess_raw$dscrgrp = ifelse(ess_raw$dscrgrp == 2, 0, ess_raw$dscrgrp) # 1 as yes, 0 as no
ess_raw = ess_raw %>%
 filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR", "IE", "SE", "BE", "PT", "ES", "FI", "LU"
main.lan.1 = ess_raw %>% group_by(cntry) %>%
  filter(lnghoma != 999, lnghoma != 888, lnghoma != 777) %>%
  summarise(main.lan.1 = tail(names(sort(table(lnghoma))),1))
main.lan.2 = ess_raw %>% group_by(cntry) %>%
  filter(lnghoma != 999, lnghoma != 888, lnghoma != 777) %>%
  summarise(main.lan.2 = tail(names(sort(table(lnghoma))),2)[1])
ess_raw = ess_raw %>%
 left_join(main.lan.1, by = "cntry") %>%
  left_join(main.lan.2, by = "cntry")
ess_raw = ess_raw %>% group_by(cntry) %>%
  mutate(main.lan = ifelse(lnghoma == main.lan.1 |lnghoma == main.lan.2 , 1, 0))
  # 1: speak majority language at home, 0: minority language
soc_mean = ess_raw %>% filter(citizen == 1, fborn == 0) %>% group_by(cntry) %>%
  select(cntry, stflife, pplhlp, happy, aesfdrk, health, dscrgrp, dscrrce, dscrntn, main.lan) %>%
  summarise(mean.stflife = mean(stflife, na.rm = TRUE),
            mean.pplhlp = mean(pplhlp, na.rm = TRUE),
            mean.happy = mean(happy, na.rm = TRUE),
            # mean.inmdisc = mean(inmdisc, na.rm = TRUE),
            mean.aesfdrk = mean(aesfdrk, na.rm = TRUE),
            mean.health = mean(health, na.rm = TRUE),
            mean.dscrgrp = mean(dscrgrp, na.rm = TRUE),
            mean.dscrrce = mean(dscrrce, na.rm = TRUE),
            mean.dscrntn = mean(dscrntn, na.rm = TRUE),
            mean.lan = mean(main.lan, na.rm = TRUE))
            # mean.dscretn = mean(dscretn, na.rm = TRUE),
            # mean.lnqhoma = mean(lnqhoma, na.rm = TRUE))
```

```
# mean.sptcptp = mean(sptcptp, na.rm = TRUE),
            # mean.cltoptp = mean(cltoptp, na.rm = TRUE),
            # mean.truptp = mean(truptp, na.rm = TRUE),
            # mean.prfoptp = mean(prfoptp, na.rm = TRUE),
            # mean.cnsoptp = mean(cnsoptp, na.rm = TRUE),
            # mean.hmnoptp = mean(hmnoptp, na.rm = TRUE),
            # mean.epaoptp = mean(epaoptp, na.rm = TRUE),
            # mean.rlqoptp = mean(rlqoptp, na.rm = TRUE),
            # mean.prtyptp = mean(prtyptp, na.rm = TRUE),
            # mean.setoptp = mean(setoptp, na.rm = TRUE),
            # mean.sclcptp = mean(sclcptp, na.rm = TRUE),
            # mean.othuptp = mean(othuptp, na.rm = TRUE))
ess_soc = ess_raw %>% filter(residence == 1)
ess_soc = ess_soc %>% left_join(soc_mean, by='cntry')
soc_h = ess_soc %>% filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR"))
soc_l = ess_soc %>% filter(cntry %in% c("IE", "SE", "BE", "PT", "ES", "FI", "LU", "IT"))
soc_h = soc_h %>% mutate(
  stflife.gap = stflife - mean.stflife,
  pplhlp.gap = pplhlp - mean.pplhlp,
 happy.gap = happy - mean.happy,
  aesfdrk.gap = aesfdrk - mean.aesfdrk,
 health.gap = health - mean.health,
  dscrgrp.gap = dscrgrp - mean.dscrgrp,
 dscrrce.gap = dscrrce - mean.dscrrce,
 dscrntn.gap = dscrntn - mean.dscrntn,
 lan.gap = main.lan - mean.lan
  # lnghoma.gap = lnghoma - mean.lnghoma
soc_l = soc_l %>% mutate(
  stflife.gap = stflife - mean.stflife,
  pplhlp.gap = pplhlp - mean.pplhlp,
  happy.gap = happy - mean.happy,
  aesfdrk.gap = aesfdrk - mean.aesfdrk,
 health.gap = health - mean.health,
  dscrgrp.gap = dscrgrp - mean.dscrgrp,
  dscrrce.gap = dscrrce - mean.dscrrce,
  dscrntn.gap = dscrntn - mean.dscrntn,
 lan.gap = main.lan - mean.lan
  # lnghoma.gap = lnghoma - mean.lnghoma
 )
stflife.h.1 = lm(stflife ~ agea + ethnic + female + edu + eubirth, data = soc_h) # absolute level
stflife.h.2 = lm(stflife.gap ~ agea + ethnic + female + edu + eubirth, data = soc_h) # gap
stflife.l.1 = lm(stflife ~ agea + ethnic + female + edu + eubirth, data = soc_l) # absolute level
stflife.1.2 = lm(stflife.gap ~ agea + ethnic + female + edu + eubirth, data = soc_1) # gap
absolute.h = as.vector(c(stflife.h.1\$coefficients[1],confint(stflife.h.1)[1,]))
absolute.l = as.vector(c(stflife.l.1\$coefficients[1],confint(stflife.l.1)[1,]))
gap.h = as.vector(c(stflife.h.2$coefficients[1],confint(stflife.h.2)[1,]))
```

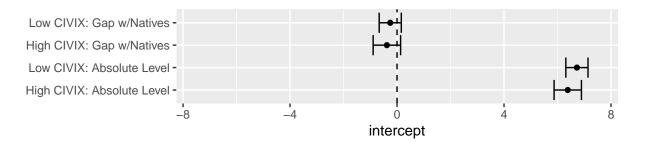


Figure 75: How satisfied with life as a whole

```
gap.1 = as.vector(c(stflife.1.2$coefficients[1],confint(stflife.1.2)[1,]))
stflife.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(stflife.1) = c("intercept", "min", "max")
stflife.1 = stflife.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
stflife.1$var = factor(stflife.1$var, as.character(stflife.1$var))
ggplot(stflife.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-7.5, 7.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
pplhlp.h.1 = lm(pplhlp ~ agea + ethnic + female + edu + eubirth, data = soc_h) # absolute level
pplhlp.h.2 = lm(pplhlp.gap ~ agea + ethnic + female + edu + eubirth, data = soc_h) # gap
pplhlp.l.1 = lm(pplhlp ~ agea + ethnic + female + edu + eubirth, data = soc_l) # absolute level
pplhlp.1.2 = lm(pplhlp.gap ~ agea + ethnic + female + edu + eubirth, data = soc_1) # gap
absolute.h = as.vector(c(pplhlp.h.1$coefficients[1],confint(pplhlp.h.1)[1,]))
absolute.1 = as.vector(c(pplhlp.1.1$coefficients[1],confint(pplhlp.1.1)[1,]))
gap.h = as.vector(c(pplhlp.h.2$coefficients[1],confint(pplhlp.h.2)[1,]))
gap.1 = as.vector(c(pplhlp.1.2$coefficients[1],confint(pplhlp.1.2)[1,]))
pplhlp.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pplhlp.1) = c("intercept", "min", "max")
pplhlp.1 = pplhlp.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
pplhlp.1$var = factor(pplhlp.1$var, as.character(pplhlp.1$var))
ggplot(pplhlp.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-7.5, 7.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
happy.h.1 = lm(happy ~ agea + ethnic + female + edu + eubirth, data = soc_h) # absolute level
happy.h.2 = lm(happy.gap ~ agea + ethnic + female + edu + eubirth, data = soc h) # qap
happy.l.1 = lm(happy ~ agea + ethnic + female + edu + eubirth, data = soc_l) # absolute level
happy.1.2 = lm(happy.gap ~ agea + ethnic + female + edu + eubirth, data = soc_l) # gap
```

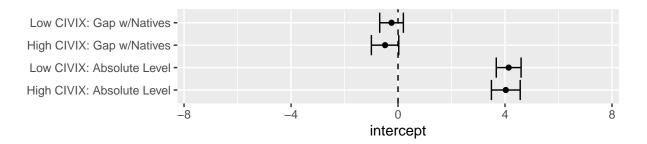


Figure 76: Most of the time people helpful (10) or mostly looking out for themselves (0)

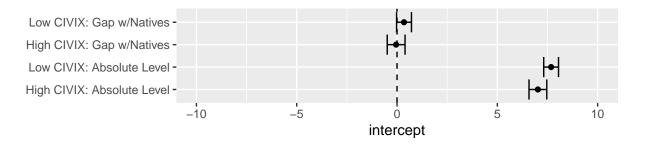


Figure 77: How happy are you (0: exteremely unhappy, 10: extremely happy)

```
absolute.h = as.vector(c(happy.h.1$coefficients[1],confint(happy.h.1)[1,]))
absolute.1 = as.vector(c(happy.1.1$coefficients[1],confint(happy.1.1)[1,]))
gap.h = as.vector(c(happy.h.2$coefficients[1],confint(happy.h.2)[1,]))
gap.1 = as.vector(c(happy.1.2$coefficients[1],confint(happy.1.2)[1,]))
happy.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(happy.1) = c("intercept", "min", "max")
happy.1 = happy.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High CI
happy.1$var = factor(happy.1$var, as.character(happy.1$var))
ggplot(happy.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-10, 10)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
aesfdrk.h.1 = lm(aesfdrk ~ agea + ethnic + female + edu + eubirth, data = soc_h) # absolute level
aesfdrk.h.2 = lm(aesfdrk.gap ~ agea + ethnic + female + edu + eubirth, data = soc_h) # gap
aesfdrk.l.1 = lm(aesfdrk ~ agea + ethnic + female + edu + eubirth, data = soc_1) # absolute level
aesfdrk.1.2 = lm(aesfdrk.gap ~ agea + ethnic + female + edu + eubirth, data = soc_1) # gap
absolute.h = as.vector(c(aesfdrk.h.1$coefficients[1],confint(aesfdrk.h.1)[1,]))
absolute.1 = as.vector(c(aesfdrk.1.1$coefficients[1],confint(aesfdrk.1.1)[1,]))
gap.h = as.vector(c(aesfdrk.h.2$coefficients[1],confint(aesfdrk.h.2)[1,]))
gap.l = as.vector(c(aesfdrk.l.2$coefficients[1],confint(aesfdrk.l.2)[1,]))
```

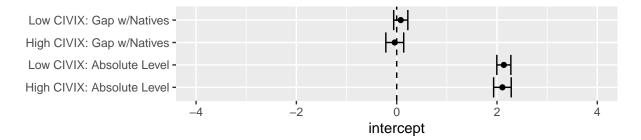


Figure 78: Feeling of safety of walking alone in local area after dark (1: very safe, 4: very unsafe)

```
aesfdrk.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(aesfdrk.1) = c("intercept", "min", "max")
aesfdrk.1 = aesfdrk.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
aesfdrk.1$var = factor(aesfdrk.1$var, as.character(aesfdrk.1$var))
ggplot(aesfdrk.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-4, 4)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
health.h.1 = lm(health ~ agea + ethnic + female + edu + eubirth, data = soc_h) # absolute level
health.h.2 = lm(health.gap ~ agea + ethnic + female + edu + eubirth, data = soc_h) # gap
health.l.1 = lm(health ~ agea + ethnic + female + edu + eubirth, data = soc_l) # absolute level
health.1.2 = lm(health.gap ~ agea + ethnic + female + edu + eubirth, data = soc_1) # gap
absolute.h = as.vector(c(health.h.1$coefficients[1],confint(health.h.1)[1,]))
absolute.1 = as.vector(c(health.1.1$coefficients[1],confint(health.1.1)[1,]))
gap.h = as.vector(c(health.h.2$coefficients[1],confint(health.h.2)[1,]))
gap.l = as.vector(c(health.1.2$coefficients[1],confint(health.1.2)[1,]))
health.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(health.1) = c("intercept", "min", "max")
health.1 = health.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
health.1$var = factor(health.1$var, as.character(health.1$var))
ggplot(health.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
dscrgrp.h.1 = glm(dscrgrp ~ agea + ethnic + female + edu + eubirth, data = soc_h, family = 'binomial')
dscrgrp.h.2 = lm(dscrgrp.gap ~ agea + ethnic + female + edu + eubirth, data = soc_h) # gap
dscrgrp.l.1 = glm(dscrgrp ~ agea + ethnic + female + edu + eubirth, data = soc_1, family = 'binomial')
dscrgrp.1.2 = lm(dscrgrp.gap ~ agea + ethnic + female + edu + eubirth, data = soc_1) # gap
```

absolute.h = as.vector(c(dscrgrp.h.1\$coefficients[1],confint(dscrgrp.h.1)[1,]))

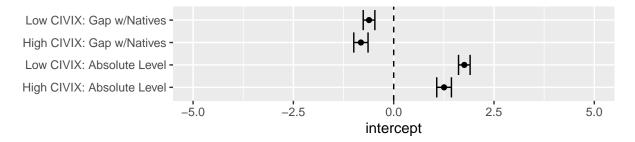


Figure 79: Subjective general health (1 very good, 5 very bad)

```
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
dscrigrp.dat.h = with(soc_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = dscrgrp.h.1 %>%
  broom::augment(newdata = dscrigrp.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
dscrigrp.dat.l = with(soc_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.l = dscrgrp.l.1 %>%
  broom::augment(newdata = dscrigrp.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) %>%
  select(.fitted, upper, lower)
gap.h = as.vector(c(dscrgrp.h.2$coefficients[1],confint(dscrgrp.h.2)[1,]))
gap.1 = as.vector(c(dscrgrp.1.2$coefficients[1],confint(dscrgrp.1.2)[1,]))
dscrgrp.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(dscrgrp.1) = c("intercept", "min", "max")
dscrgrp.1 = dscrgrp.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (
dscrgrp.1$var = factor(dscrgrp.1$var, as.character(dscrgrp.1$var))
ggplot(dscrgrp.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-2, 2)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
```

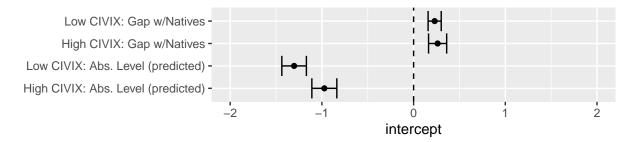


Figure 80: Whether a member of a group discriminated against in this country (1 yes)

```
lan.h.1 = glm(main.lan ~ agea + ethnic + female + edu + eubirth, data = soc_h, family = 'binomial') # a
lan.h.2 = lm(lan.gap ~ agea + ethnic + female + edu + eubirth, data = soc_h) # gap
lan.l.1 = glm(main.lan ~ agea + ethnic + female + edu + eubirth, data = soc_1, family = 'binomial') # a
lan.l.2 = lm(lan.gap ~ agea + ethnic + female + edu + eubirth, data = soc_l) # gap
# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
lan.dat.h = with(soc_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = lan.h.1 %>%
  broom::augment(newdata = lan.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
lan.dat.1 = with(soc_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = lan.1.1 %>%
  broom::augment(newdata = lan.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(lan.h.2$coefficients[1],confint(lan.h.2)[1,]))
gap.l = as.vector(c(lan.1.2$coefficients[1],confint(lan.1.2)[1,]))
lan.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(lan.1) = c("intercept", "min", "max")
lan.1 = lan.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (predicted)',
lan.1$var = factor(lan.1$var, as.character(lan.1$var))
ggplot(lan.1,aes(y=var)) +
```

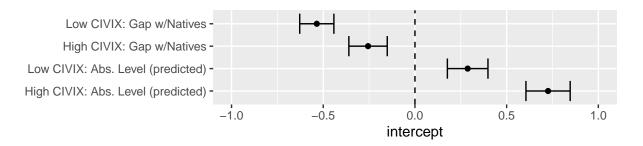


Figure 81: Language at home (1 for majority language)

```
geom_point(aes(x = intercept)) +
geom_errorbarh(aes(xmin = min, xmax = max)) +
coord_cartesian(xlim = c(-1, 1)) +
geom_vline(xintercept = 0, linetype = "dashed") +
ylab("")
```

Socio-economic incorporation

```
# pdjobev - Ever had a paid job
# pdjobyr - Year last in paid job
# emplrel - Employment relation
# emplno - Number of employees respondent has/had
# wrkctra - Employment contract unlimited or limited duration
# jbspv - Responsible for supervising other employees
# wkdcorga - Allowed to decide how daily work is organised
# wkhtot - Total hours normally worked per week in main job overtime included
# iscoco - Occupation, ISCO88 (com)
# uemp3m - Ever unemployed and seeking work for a period more than three months
# uemp12m - Any period of unemployment and work seeking lasted 12 months or more
# uemp5yr - Any period of unemployment and work seeking within last 5 years
# hinctnta - Household's total net income, all sources
ess_raw$pdjobev = ifelse(ess_raw$pdjobev > 5, NA,
                         ifelse(ess raw$pdjobev == 2, 0, ess raw$pdjobev)) # 1 as yes, 0 as no
ess_raw$pdjobyr = ifelse(ess_raw$pdjobyr > 2010, NA, ess_raw$pdjobyr)
essr = c(2002, 2004, 2006, 2008, 2010)
essround = c(1:5)
essround = as.data.frame(t(rbind(essr, essround)))
ess_raw = ess_raw %>% left_join(essround, by='essround')
ess_raw = ess_raw %>% mutate(pdjobyr = essr - pdjobyr)
ess_raw$self.emply = ifelse(ess_raw$emplrel == 1, 0,
                            ifelse(ess_raw$emplrel == 2, 1,
                                   ifelse(ess_raw$emplrel == 3, 1, NA))) # remember that there's no "ga
ess_raw$wrkctr = ifelse(ess_raw$wrkctra == 1, 0,
                         ifelse(ess raw$wrkctra == 2, 1,
                                ifelse(ess_raw$wrkctra == 3, 1, NA))) # 1 as w/ limited contract or no
ess_raw$contract = ifelse(ess_raw$wrkctra == 1, 1,
```

```
ifelse(ess_raw$wrkctra == 2, 1,
                                    ifelse(ess_raw$wrkctra == 3, 0, NA))) # 1 as with contract, 0 as w/
ess_raw$jbspv = ifelse(ess_raw$jbspv == 2, 0,
                       ifelse(ess_raw$jbspv == 1, 1, NA))
ess_raw$wkdcorga = ifelse(ess_raw$wkdcorga > 10, NA, ess_raw$wkdcorga)
ess raw$wkhtot = ifelse(ess raw$wkhtot > 168, NA, ess raw$wkhtot)
iscoco.h.w = c(100:3500) # high skilled white collar
iscoco.l.w = c(4000:5500) # low skilled white collar
iscoco.h.b = c(6000:7500) # high skilled blue collar
iscoco.l.b = c(8000:9330) # low skilled blue collar
ess_raw$skill = ifelse(ess_raw$iscoco %in% iscoco.h.w, 1,
                       ifelse(ess_raw$iscoco %in% iscoco.h.b, 1,
                              ifelse(ess_raw$iscoco %in% iscoco.l.w, 0,
                                     ifelse(ess_raw$iscoco %in% iscoco.l.b, 0, NA)))) # 1 as high skill
ess_raw$blue = ifelse(ess_raw$iscoco %in% iscoco.h.w, 0,
                       ifelse(ess_raw$iscoco %in% iscoco.l.w, 0,
                              ifelse(ess_raw$iscoco %in% iscoco.h.b, 1,
                                     ifelse(ess_raw$iscoco %in% iscoco.l.b, 1, NA)))) # 1 as blue colla
ess_raw$uemp3m = ifelse(ess_raw$uemp3m == 2, 0,
                        ifelse(ess raw$uemp3m == 1, 1, NA))
ess_raw$uemp12m = ifelse(ess_raw$uemp12m == 2, 0,
                        ifelse(ess_raw$uemp12m == 1, 1, NA))
ess_raw$uemp5yr = ifelse(ess_raw$uemp5yr == 2, 0,
                        ifelse(ess_raw$uemp5yr == 1, 1, NA))
ses_mean = ess_raw %>% filter(citizen == 1, fborn == 0) %>% group_by(cntry) %>%
  select(pdjobev, pdjobyr, emplno, wrkctr, jbspv, wkdcorga, wkhtot, skill, blue, contract, hinctnt, uem
  summarise(mean.pdjobev = mean(pdjobev, na.rm = TRUE),
            mean.pdjobyr = mean(pdjobyr, na.rm = TRUE),
           mean.emplno = mean(emplno, na.rm = TRUE),
            mean.wrkctr = mean(wrkctr, na.rm = TRUE),
            mean.jbspv = mean(jbspv, na.rm = TRUE),
            mean.wkdcorga = mean(wkdcorga, na.rm = TRUE),
            mean.wkhtot = mean(wkhtot, na.rm = TRUE),
            mean.skill = mean(skill, na.rm = TRUE),
            mean.blue = mean(blue, na.rm = TRUE),
            mean.contract = mean(contract, na.rm = TRUE),
           mean.hinctnt = mean(hinctnt, na.rm = TRUE),
           mean.uemp3m = mean(uemp3m, na.rm = TRUE),
            mean.uemp12m = mean(uemp12m, na.rm = TRUE),
            mean.uemp5yr = mean(uemp5yr, na.rm = TRUE))
ess_ses = ess_raw %>% filter(residence == 1)
ess_ses = ess_ses %>% left_join(ses_mean, by='cntry')
ses_h = ess_ses %>% filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR"))
```

```
ses_l = ess_ses %>% filter(cntry %in% c("IE", "SE", "BE", "PT", "ES", "FI", "LU", "IT"))
ses_h = ses_h %>% mutate(
  pdjobev.gap = pdjobev - mean.pdjobev,
  pdjobyr.gap = pdjobyr - mean.pdjobyr,
  emplno.gap = emplno - mean.emplno,
  wrkctr.gap = wrkctr - mean.wrkctr,
  jbspv.gap = jbspv - mean.jbspv,
  wkdcorga.gap = wkdcorga - mean.wkdcorga,
  wkhtot.gap = wkhtot - mean.wkhtot,
  skill.gap = skill - mean.skill,
  blue.gap = blue - mean.blue,
  contract.gap = contract - mean.contract,
  hinctnt.gap = hinctnt - mean.hinctnt,
  uemp3m.gap = uemp3m - mean.uemp3m,
  uemp12m.gap = uemp12m - mean.uemp12m,
  uemp5yr.gap = uemp5yr - mean.uemp5yr
ses_1 = ses_1 %>% mutate(
  pdjobev.gap = pdjobev - mean.pdjobev,
  pdjobyr.gap = pdjobyr - mean.pdjobyr,
  emplno.gap = emplno - mean.emplno,
  wrkctr.gap = wrkctr - mean.wrkctr,
  jbspv.gap = jbspv - mean.jbspv,
  wkdcorga.gap = wkdcorga - mean.wkdcorga,
  wkhtot.gap = wkhtot - mean.wkhtot,
  skill.gap = skill - mean.skill,
  blue.gap = blue - mean.blue,
  contract.gap = contract - mean.contract,
 hinctnt.gap = hinctnt - mean.hinctnt,
  uemp3m.gap = uemp3m - mean.uemp3m,
  uemp12m.gap = uemp12m - mean.uemp12m,
  uemp5yr.gap = uemp5yr - mean.uemp5yr
 )
pdjobev.h.1 = glm(pdjobev ~ agea + ethnic + female + edu + eubirth, data = ses h, family = 'binomial')
pdjobev.h.2 = lm(pdjobev.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
pdjobev.l.1 = glm(pdjobev ~ agea + ethnic + female + edu + eubirth, data = ses_l, family = 'binomial')
pdjobev.1.2 = lm(pdjobev.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
# absolute.h = as.vector(c(dscrqrp.h.1$coefficients[1],confint(dscrqrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrqrp.l.1$coefficients[1],confint(dscrqrp.l.1)[1,]))
pdjobev.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = pdjobev.h.1 %>%
 broom::augment(newdata = pdjobev.dat.h, predict = "response") %>%
 mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) %>%
```

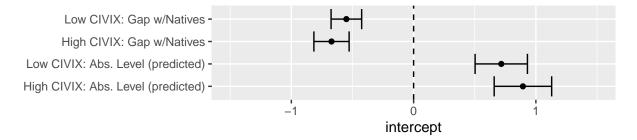


Figure 82: Ever had a paid job (1 as yes)

```
select(.fitted, upper, lower)
pdjobev.dat.1 = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = pdjobev.1.1 %>%
  broom::augment(newdata = pdjobev.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) %>%
  select(.fitted, upper, lower)
gap.h = as.vector(c(pdjobev.h.2$coefficients[1],confint(pdjobev.h.2)[1,]))
gap.1 = as.vector(c(pdjobev.1.2$coefficients[1],confint(pdjobev.1.2)[1,]))
pdjobev.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pdjobev.1) = c("intercept", "min", "max")
pdjobev.1 = pdjobev.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (
pdjobev.1$var = factor(pdjobev.1$var, as.character(pdjobev.1$var))
ggplot(pdjobev.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord cartesian(xlim = c(-1.5, 1.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
pdjobyr.h.1 = lm(pdjobyr ~ agea + ethnic + female + edu + eubirth, data = ses_h) # absolute level
pdjobyr.h.2 = lm(pdjobyr.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
pdjobyr.l.1 = lm(pdjobyr ~ agea + ethnic + female + edu + eubirth, data = ses_1) # absolute level
pdjobyr.1.2 = lm(pdjobyr.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
absolute.h = as.vector(c(pdjobyr.h.1\$coefficients[1],confint(pdjobyr.h.1)[1,]))
absolute.1 = as.vector(c(pdjobyr.1.1$coefficients[1],confint(pdjobyr.1.1)[1,]))
gap.h = as.vector(c(pdjobyr.h.2$coefficients[1],confint(pdjobyr.h.2)[1,]))
gap.l = as.vector(c(pdjobyr.l.2$coefficients[1],confint(pdjobyr.l.2)[1,]))
pdjobyr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(pdjobyr.1) = c("intercept", "min", "max")
```

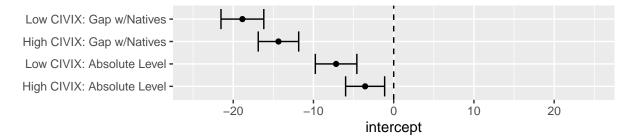


Figure 83: Number of years to the last paid job

```
pdjobyr.1 = pdjobyr.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig'
pdjobyr.1$var = factor(pdjobyr.1$var, as.character(pdjobyr.1$var))
ggplot(pdjobyr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-25, 25)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
self.emply.h.1 = glm(self.emply ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binom
self.emply.1.1 = glm(self.emply ~ agea + ethnic + female + edu + eubirth, data = ses_1, family = 'binom
# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
self.emply.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = self.emply.h.1 %>%
  broom::augment(newdata = self.emply.dat.h, predict = "response") %%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
self.emply.dat.1 = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = self.emply.1.1 %>%
  broom::augment(newdata = self.emply.dat.1, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
\# gap.h = as.vector(c(pdjobev.h.2$coefficients[1],confint(pdjobev.h.2)[1,]))
\# qap.l = as.vector(c(pdjobev.l.2$coefficients[1], confint(pdjobev.l.2)[1,]))
```

```
self.emply.1 = as.data.frame(rbind(absolute.h, absolute.l))
colnames(self.emply.1) = c("intercept", "min", "max")
self.emply.1 = self.emply.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. L
self.emply.1$var = factor(self.emply.1$var, as.character(self.emply.1$var))
ggplot(self.emply.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-4, 4)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
Low CIVIX: Abs. Level (predicted) -
High CIVIX: Abs. Level (predicted) -
                                                                     2
                                                        0
                                                    intercept
emplno.h.1 = lm(emplno ~ agea + ethnic + female + edu + eubirth, data = ses_h) # absolute level
emplno.h.2 = lm(emplno.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
emplno.l.1 = lm(emplno ~ agea + ethnic + female + edu + eubirth, data = ses_l) # absolute level
emplno.1.2 = lm(emplno.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
absolute.h = as.vector(c(emplno.h.1$coefficients[1],confint(emplno.h.1)[1,]))
absolute.1 = as.vector(c(emplno.1.1$coefficients[1],confint(emplno.1.1)[1,]))
gap.h = as.vector(c(emplno.h.2$coefficients[1],confint(emplno.h.2)[1,]))
gap.l = as.vector(c(emplno.1.2$coefficients[1],confint(emplno.1.2)[1,]))
emplno.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(emplno.1) = c("intercept", "min", "max")
emplno.1 = emplno.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
emplno.1$var = factor(emplno.1$var, as.character(emplno.1$var))
ggplot(emplno.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-25, 50)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
wrkctr.h.1 = glm(wrkctr ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial') #
wrkctr.h.2 = lm(wrkctr.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
wrkctr.l.1 = glm(wrkctr ~ agea + ethnic + female + edu + eubirth, data = ses_l, family = 'binomial') #
wrkctr.1.2 = lm(wrkctr.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
wrkctr.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
```

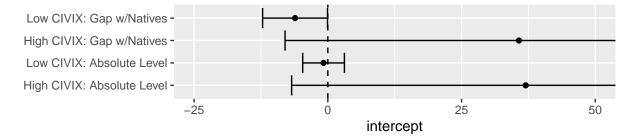


Figure 84: Number of employees

```
female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = wrkctr.h.1 %>%
  broom::augment(newdata = wrkctr.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
wrkctr.dat.l = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.l = wrkctr.l.1 %>%
  broom::augment(newdata = wrkctr.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(wrkctr.h.2$coefficients[1],confint(wrkctr.h.2)[1,]))
gap.l = as.vector(c(wrkctr.l.2$coefficients[1],confint(wrkctr.l.2)[1,]))
wrkctr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(wrkctr.1) = c("intercept", "min", "max")
wrkctr.1 = wrkctr.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (pr
wrkctr.1$var = factor(wrkctr.1$var, as.character(wrkctr.1$var))
ggplot(wrkctr.1,aes(y=var)) +
 geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1.5, 1.5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
contract.h.1 = glm(contract ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial'
contract.h.2 = lm(contract.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
contract.l.1 = glm(contract ~ agea + ethnic + female + edu + eubirth, data = ses_l, family = 'binomial'
```

contract.1.2 = lm(contract.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap

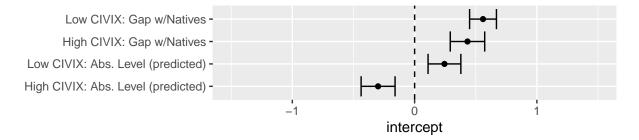


Figure 85: Whether employeed under contract with limited duration

```
# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
contract.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = contract.h.1 %>%
  broom::augment(newdata = contract.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
contract.dat.l = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = contract.1.1 %>%
  broom::augment(newdata = contract.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(contract.h.2$coefficients[1],confint(contract.h.2)[1,]))
gap.1 = as.vector(c(contract.1.2$coefficients[1],confint(contract.1.2)[1,]))
contract.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(contract.1) = c("intercept", "min", "max")
contract.1 = contract.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level
contract.1$var = factor(contract.1$var, as.character(contract.1$var))
ggplot(contract.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2, 2)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
```

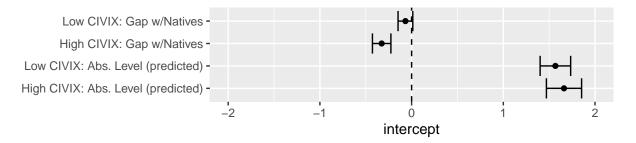


Figure 86: Whether employeed under contract at all

```
jbspv.h.1 = glm(jbspv ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial') # ab
jbspv.h.2 = lm(jbspv.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
jbspv.l.1 = glm(jbspv ~ agea + ethnic + female + edu + eubirth, data = ses_1, family = 'binomial') # ab
jbspv.l.2 = lm(jbspv.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # qap
# absolute.h = as.vector(c(dscrqrp.h.1$coefficients[1],confint(dscrqrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
jbspv.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = jbspv.h.1 %>%
  broom::augment(newdata = jbspv.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
jbspv.dat.1 = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = jbspv.1.1 %>%
  broom::augment(newdata = jbspv.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(jbspv.h.2$coefficients[1],confint(jbspv.h.2)[1,]))
gap.l = as.vector(c(jbspv.l.2$coefficients[1],confint(jbspv.l.2)[1,]))
jbspv.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(jbspv.1) = c("intercept", "min", "max")
jbspv.1 = jbspv.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (pred
jbspv.1$var = factor(jbspv.1$var, as.character(jbspv.1$var))
ggplot(jbspv.1,aes(y=var)) +
```

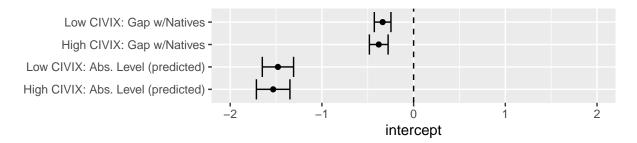


Figure 87: Whether supervise other employees

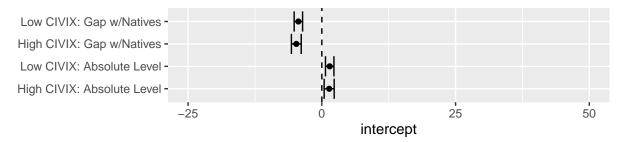


Figure 88: How much control over organization of daily work (0 as no influence, 10 as complete control)

```
geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-2, 2)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
wkdcorga.h.1 = lm(wkdcorga ~ agea + ethnic + female + edu + eubirth, data = ses_h) # absolute level
wkdcorga.h.2 = lm(wkdcorga.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
wkdcorga.l.1 = lm(wkdcorga ~ agea + ethnic + female + edu + eubirth, data = ses_1) # absolute level
wkdcorga.1.2 = lm(wkdcorga.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # qap
absolute.h = as.vector(c(wkdcorga.h.1$coefficients[1],confint(wkdcorga.h.1)[1,]))
absolute.1 = as.vector(c(wkdcorga.1.1$coefficients[1],confint(wkdcorga.1.1)[1,]))
gap.h = as.vector(c(wkdcorga.h.2$coefficients[1],confint(wkdcorga.h.2)[1,]))
gap.1 = as.vector(c(wkdcorga.1.2$coefficients[1],confint(wkdcorga.1.2)[1,]))
wkdcorga.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(wkdcorga.1) = c("intercept", "min", "max")
wkdcorga.1 = wkdcorga.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'H
wkdcorga.1$var = factor(wkdcorga.1$var, as.character(wkdcorga.1$var))
ggplot(wkdcorga.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-25, 50)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("")
wkhtot.h.1 = lm(wkhtot ~ agea + ethnic + female + edu + eubirth, data = ses_h) # absolute level
wkhtot.h.2 = lm(wkhtot.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
```

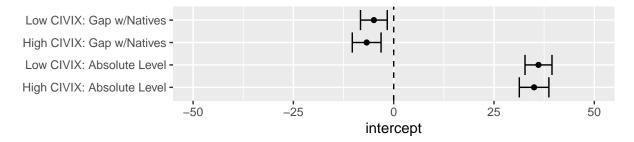


Figure 89: Hours normally worked per week

```
wkhtot.l.1 = lm(wkhtot ~ agea + ethnic + female + edu + eubirth, data = ses_l) # absolute level
wkhtot.1.2 = lm(wkhtot.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
absolute.h = as.vector(c(wkhtot.h.1$coefficients[1],confint(wkhtot.h.1)[1,]))
absolute.l = as.vector(c(wkhtot.l.1$coefficients[1],confint(wkhtot.l.1)[1,]))
gap.h = as.vector(c(wkhtot.h.2$coefficients[1],confint(wkhtot.h.2)[1,]))
gap.1 = as.vector(c(wkhtot.l.2$coefficients[1],confint(wkhtot.l.2)[1,]))
wkhtot.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(wkhtot.1) = c("intercept", "min", "max")
wkhtot.1 = wkhtot.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'High '
wkhtot.1$var = factor(wkhtot.1$var, as.character(wkhtot.1$var))
ggplot(wkhtot.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-50, 50)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
skill.h.1 = glm(skill ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial') # ab
skill.h.2 = lm(skill.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
skill.1.1 = glm(skill ~ agea + ethnic + female + edu + eubirth, data = ses_1, family = 'binomial') # ab
skill.1.2 = lm(skill.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
\# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
skill.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = skill.h.1 %>%
  broom::augment(newdata = skill.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
skill.dat.l = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
```

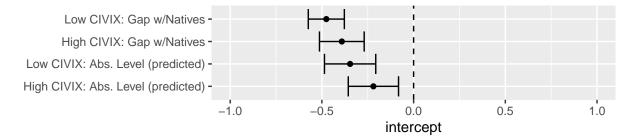


Figure 90: Skilled worker (1) or not (0)

```
ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = skill.1.1 %>%
  broom::augment(newdata = skill.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) %>%
  select(.fitted, upper, lower)
gap.h = as.vector(c(skill.h.2$coefficients[1],confint(skill.h.2)[1,]))
gap.l = as.vector(c(skill.l.2$coefficients[1],confint(skill.l.2)[1,]))
skill.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(skill.1) = c("intercept", "min", "max")
skill.1 = skill.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (pred
skill.1$var = factor(skill.1$var, as.character(skill.1$var))
ggplot(skill.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1, 1)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
blue.h.1 = glm(blue ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial') # abso
blue.h.2 = lm(blue.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
blue.1.1 = glm(blue ~ agea + ethnic + female + edu + eubirth, data = ses_1, family = 'binomial') # abso
blue.1.2 = lm(blue.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
blue.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = blue.h.1 %>%
  broom::augment(newdata = blue.dat.h, predict = "response") %>%
```

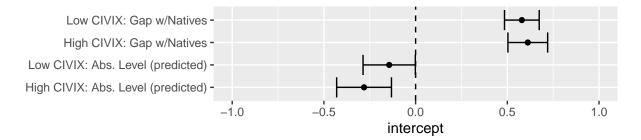


Figure 91: Blue collar (1) or not (0)

```
mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
blue.dat.l = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = blue.1.1 %>%
  broom::augment(newdata = blue.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(blue.h.2$coefficients[1],confint(blue.h.2)[1,]))
gap.l = as.vector(c(blue.1.2$coefficients[1],confint(blue.1.2)[1,]))
blue.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(blue.1) = c("intercept", "min", "max")
blue.1 = blue.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (predic
blue.1$var = factor(blue.1$var, as.character(blue.1$var))
ggplot(blue.1,aes(y=var)) +
  geom point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1, 1)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("")
hinctnt.h.1 = lm(hinctnt ~ agea + ethnic + female + edu + eubirth, data = ses_h) # absolute level
hinctnt.h.2 = lm(hinctnt.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
hinctnt.l.1 = lm(hinctnt ~ agea + ethnic + female + edu + eubirth, data = ses_1) # absolute level
hinctnt.1.2 = lm(hinctnt.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
absolute.h = as.vector(c(hinctnt.h.1\$coefficients[1],confint(hinctnt.h.1)[1,]))
absolute.1 = as.vector(c(hinctnt.1.1$coefficients[1],confint(hinctnt.1.1)[1,]))
gap.h = as.vector(c(hinctnt.h.2$coefficients[1],confint(hinctnt.h.2)[1,]))
gap.1 = as.vector(c(hinctnt.1.2$coefficients[1],confint(hinctnt.1.2)[1,]))
```

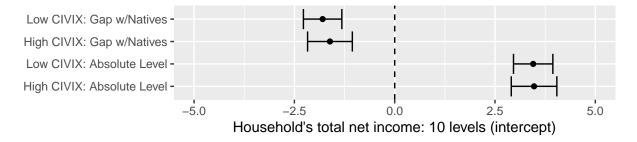


Figure 92: Household total net income (10 levels)

```
hinctnt.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(hinctnt.1) = c("intercept", "min", "max")
hinctnt.1 = hinctnt.1 %>% mutate(var = c('High CIVIX: Absolute Level', 'Low CIVIX: Absolute Level', 'Hig
hinctnt.1$var = factor(hinctnt.1$var, as.character(hinctnt.1$var))
ggplot(hinctnt.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-5, 5)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("") +
  xlab("Household's total net income: 10 levels (intercept)")
uemp3m.h.1 = glm(uemp3m ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial') #
uemp3m.h.2 = lm(uemp3m.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
uemp3m.l.1 = glm(uemp3m ~ agea + ethnic + female + edu + eubirth, data = ses_l, family = 'binomial') #
uemp3m.1.2 = lm(uemp3m.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
\# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
uemp3m.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = uemp3m.h.1 %>%
  broom::augment(newdata = uemp3m.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) %>%
  select(.fitted, upper, lower)
uemp3m.dat.l = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.1 = uemp3m.1.1 %>%
  broom::augment(newdata = uemp3m.dat.1, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
```

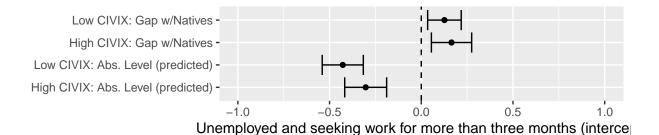


Figure 93: Unemployed and seeking work for more than three mos (1 as yes)

```
lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(uemp3m.h.2$coefficients[1],confint(uemp3m.h.2)[1,]))
gap.1 = as.vector(c(uemp3m.1.2$coefficients[1],confint(uemp3m.1.2)[1,]))
uemp3m.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(uemp3m.1) = c("intercept", "min", "max")
uemp3m.1 = uemp3m.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (pr
uemp3m.1$var = factor(uemp3m.1$var, as.character(uemp3m.1$var))
ggplot(uemp3m.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1, 1)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("") +
  xlab("Unemployed and seeking work for more than three months (intercept)")
uemp12m.h.1 = glm(uemp12m ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial')
uemp12m.h.2 = lm(uemp12m.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # gap
uemp12m.l.1 = glm(uemp12m ~ agea + ethnic + female + edu + eubirth, data = ses_l, family = 'binomial')
uemp12m.1.2 = lm(uemp12m.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
# absolute.h = as.vector(c(dscrgrp.h.1$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
uemp12m.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = uemp12m.h.1 %>%
  broom::augment(newdata = uemp12m.dat.h, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
uemp12m.dat.1 = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
```

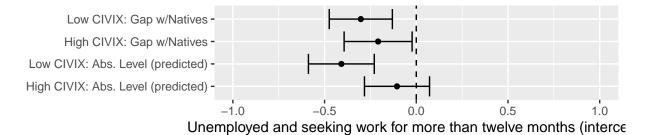


Figure 94: Unemployed and seeking work for more than 12 mos (1 as yes)

```
eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.l = uemp12m.l.1 %>%
  broom::augment(newdata = uemp12m.dat.1, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(uemp12m.h.2$coefficients[1],confint(uemp12m.h.2)[1,]))
gap.1 = as.vector(c(uemp12m.1.2$coefficients[1],confint(uemp12m.1.2)[1,]))
uemp12m.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(uemp12m.1) = c("intercept", "min", "max")
uemp12m.1 = uemp12m.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (
uemp12m.1$var = factor(uemp12m.1$var, as.character(uemp12m.1$var))
ggplot(uemp12m.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom_errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1, 1)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
 ylab("") +
  xlab("Unemployed and seeking work for more than twelve months (intercept)")
uemp5yr.h.1 = glm(uemp5yr ~ agea + ethnic + female + edu + eubirth, data = ses_h, family = 'binomial')
uemp5yr.h.2 = lm(uemp5yr.gap ~ agea + ethnic + female + edu + eubirth, data = ses_h) # qap
uemp5yr.l.1 = glm(uemp5yr ~ agea + ethnic + female + edu + eubirth, data = ses_l, family = 'binomial')
uemp5yr.1.2 = lm(uemp5yr.gap ~ agea + ethnic + female + edu + eubirth, data = ses_1) # gap
\# absolute.h = as.vector(c(dscrgrp.h.1\$coefficients[1],confint(dscrgrp.h.1)[1,]))
# absolute.l = as.vector(c(dscrgrp.l.1$coefficients[1],confint(dscrgrp.l.1)[1,]))
uemp5yr.dat.h = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.h = uemp5yr.h.1 %>%
  broom::augment(newdata = uemp5yr.dat.h, predict = "response") %>%
 mutate(upper = .fitted + 1.96 * .se.fit,
```

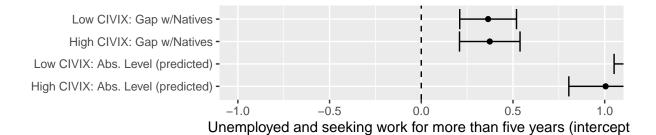


Figure 95: Unemployed and seeking work for more than 5 yrs (1 as yes)

```
lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
uemp5yr.dat.1 = with(ses_h, data.frame(agea = mean(agea, na.rm = T),
                                        ethnic = mean(ethnic, na.rm = T),
                                        female = mean(female, na.rm = T),
                                        eubirth = mean(eubirth, na.rm = T),
                                        edu = mean(edu, na.rm = T)))
absolute.l = uemp5yr.l.1 %>%
  broom::augment(newdata = uemp5yr.dat.l, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit) \%%
  select(.fitted, upper, lower)
gap.h = as.vector(c(uemp5yr.h.2$coefficients[1],confint(uemp5yr.h.2)[1,]))
gap.l = as.vector(c(uemp5yr.l.2$coefficients[1],confint(uemp5yr.l.2)[1,]))
uemp5yr.1 = as.data.frame(rbind(absolute.h, absolute.l, gap.h, gap.l))
colnames(uemp5yr.1) = c("intercept", "min", "max")
uemp5yr.1 = uemp5yr.1 %>% mutate(var = c('High CIVIX: Abs. Level (predicted)', 'Low CIVIX: Abs. Level (
uemp5yr.1$var = factor(uemp5yr.1$var, as.character(uemp5yr.1$var))
ggplot(uemp5yr.1,aes(y=var)) +
  geom_point(aes(x = intercept)) +
  geom errorbarh(aes(xmin = min, xmax = max)) +
  coord_cartesian(xlim = c(-1, 1)) +
  geom_vline(xintercept = 0, linetype = "dashed") +
  ylab("") +
  xlab("Unemployed and seeking work for more than five years (intercept)")
```