

IICP: Descriptive Analysis

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Who Are the Immigrants?

Replicating Goodman and Wright (2015) with different definition of ‘immigrants’

```
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, mocntr) %>%
  plyr::rename(c("cntbrth"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn"))
ess_2004 = ess_2004 %>%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecntr, cntbrtha, gndr, edulvla, facntr, mocntr) %>%
  plyr::rename(c("cntbrtha"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn"))
ess_2006 = ess_2006 %>%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecntr, cntbrtha, gndr, edulvla, facntr, mocntr) %>%
  plyr::rename(c("cntbrtha"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn"))
ess_2008 = ess_2008 %>%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecntr, cntbrthb, gndr, edulvla, facntr, mocntr) %>%
  plyr::rename(c("cntbrthb"="birthplace", "blgetmg"="ethnic", "edulvla"="edu", "brncntr"="fborn"))
ess_2010 = ess_2010 %>%
  select(essround, cntry, agea, blgetmg, brncntr, ctzcntr, livecnta, cntbrthb, gndr, edulvlb, facntr, mocntr) %>%
  plyr::rename(c("cntbrthb"="birthplace", "blgetmg"="ethnic", "edulvlb"="edu", "livecnta" = "livecntr", "brncntr" = "fborn"))
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))))))

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$livecntr <= 3, 1, 0) # 1 = lived less than 10 yrs, 0 = lived more than 10 yrs
ess_raw$birthplace = ifelse(ess_raw$birthplace %in% c(66,77,88,99,"02","03","04","06"), NA, ess_raw$birthplace)
# 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))
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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$polintr)
ess_raw$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) %>%
  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 = 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_nonciti = ess_raw %>% filter(citizen == 0)
ess_tenyr = ess_raw %>% filter(residence == 1)
ess_fborn = ess_raw %>% filter(fborn == 1)

ess_nonciti = ess_nonciti %>% left_join(ess_mean, by='cntry')
ess_tenyr = ess_tenyr %>% left_join(ess_mean, by='cntry')
ess_fborn = ess_fborn %>% 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.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.fborn = ess_fborn %>% filter(cntry %in% c("DK", "NL", "DE", "AT", "FR", "GB", "GR"))
ess_l.fborn = ess_fborn %>% 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
)

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
)

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
)

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
)

ess_l.fborn = ess_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
)

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
)

```

Noncitizens in ESS

```

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.l.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # gap

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

```

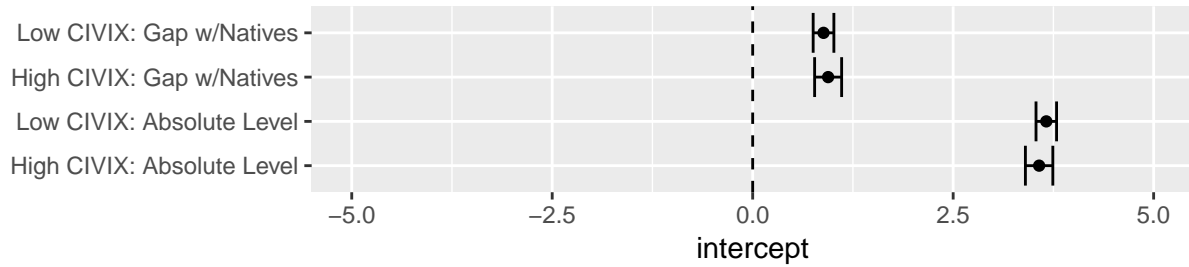


Figure 1: Political interests by CIVIX in EU-15 among Non-citizens

```

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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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("")

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

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

gap.h = as.vector(c(hincfel.h.2$coefficients[1], confint(hincfel.h.2)[1,]))
gap.l = as.vector(c(hincfel.l.2$coefficients[1], confint(hincfel.l.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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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.nonciti, family = binomial)
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.nonciti) # gap
employ.l.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti, family = binomial)
employ.l.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # gap

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,]))

```

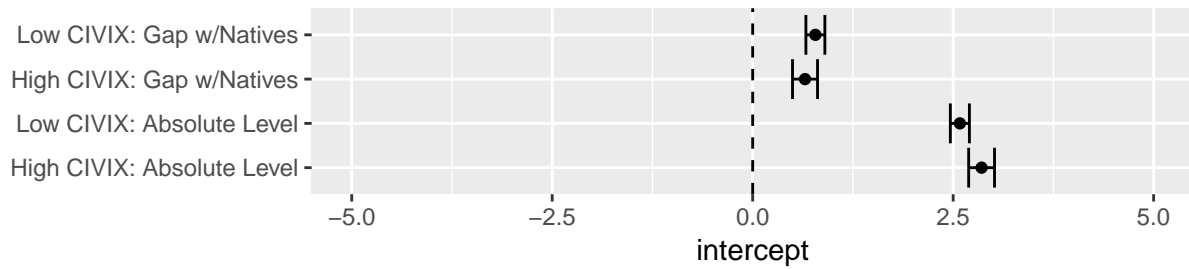


Figure 2: Financial situation by CIVIX in EU-15 among Non-citizens

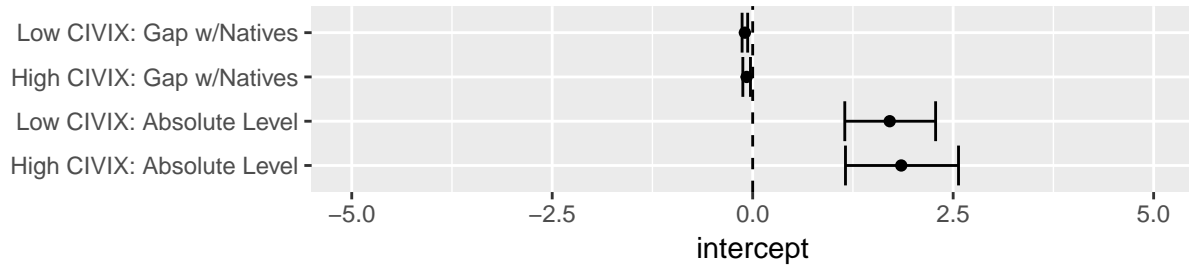


Figure 3: Employment by CIVIX among Non-citizens

```
gap.h = as.vector(c(employ.h.2$coefficients[1], confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.l.2$coefficients[1], confint(employ.l.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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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) # gap
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) # gap
```

```
absolute.h = as.vector(c(ppltrst.h.1$coefficients[1], confint(ppltrst.h.1)[1,]))
absolute.l = as.vector(c(ppltrst.l.1$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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
ppltrst.1$var = factor(ppltrst.1$var, as.character(ppltrst.1$var))
```

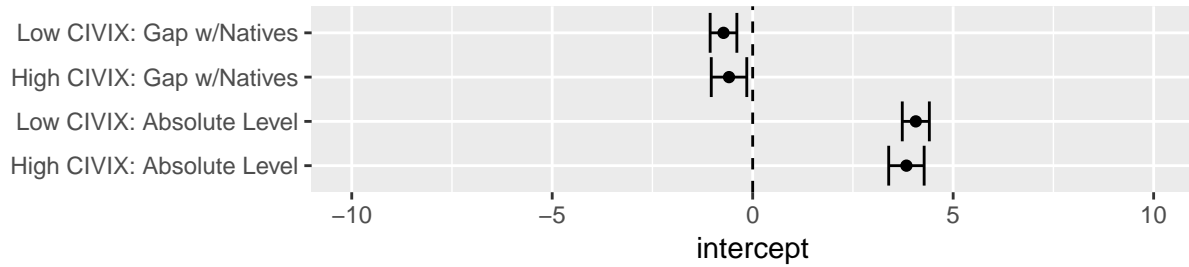


Figure 4: General trust by CIVIX in EU-15 among Non-citizens

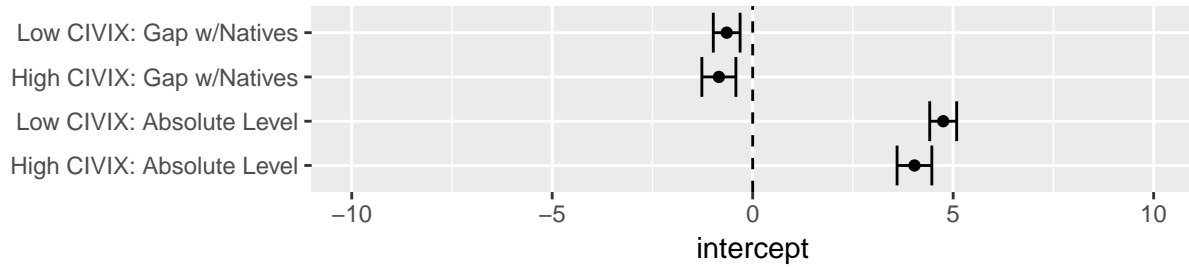


Figure 5: People being fair by CIVIX in EU-15 among Non-citizens

```
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.l.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.nonciti) # gap

absolute.h = as.vector(c(pplfair.h.1$coefficients[1],confint(pplfair.h.1)[1,]))
absolute.l = as.vector(c(pplfair.l.1$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', 'High CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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("")
```

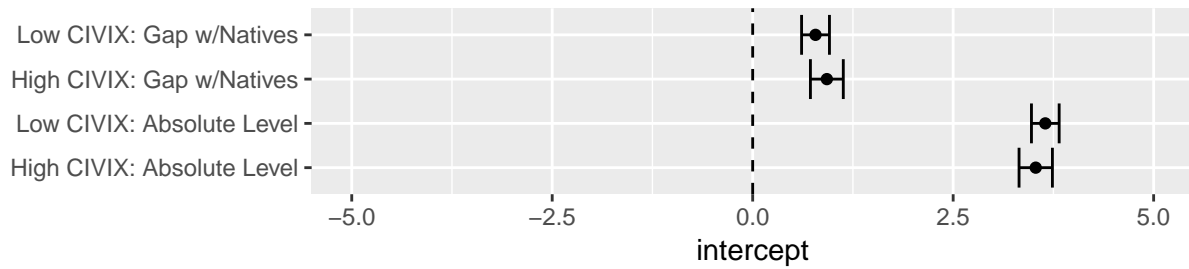


Figure 6: Political interests by CIVIX in EU-15, < 10 yrs

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 ~ 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.l.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # gap

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

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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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("")

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.l.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
hincfel.l.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # gap

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

gap.h = as.vector(c(hincfel.h.2$coefficients[1], confint(hincfel.h.2)[1,]))
gap.l = as.vector(c(hincfel.l.2$coefficients[1], confint(hincfel.l.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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
hincfel.1$var = factor(hincfel.1$var, as.character(hincfel.1$var))

ggplot(hincfel.1, aes(y=var)) +

```

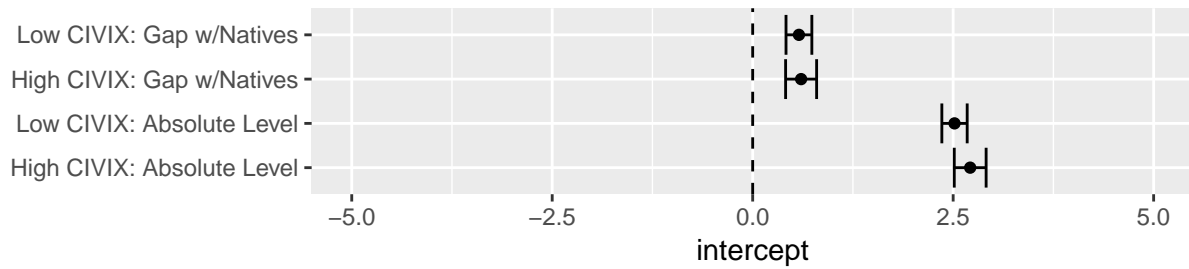


Figure 7: Financial situation by CIVIX in EU-15, < 10 yrs

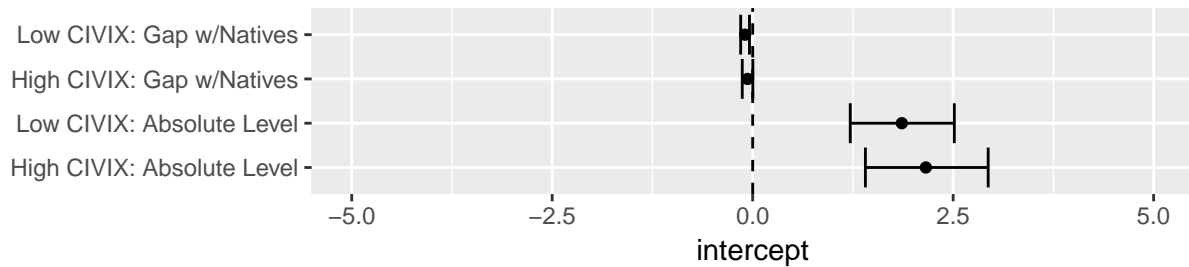


Figure 8: Employment by CIVIX, < 10 yrs

```
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.l.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr, family = binomial)
employ.l.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # gap
```

```
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$coefficients[1], confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.l.2$coefficients[1], confint(employ.l.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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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
```

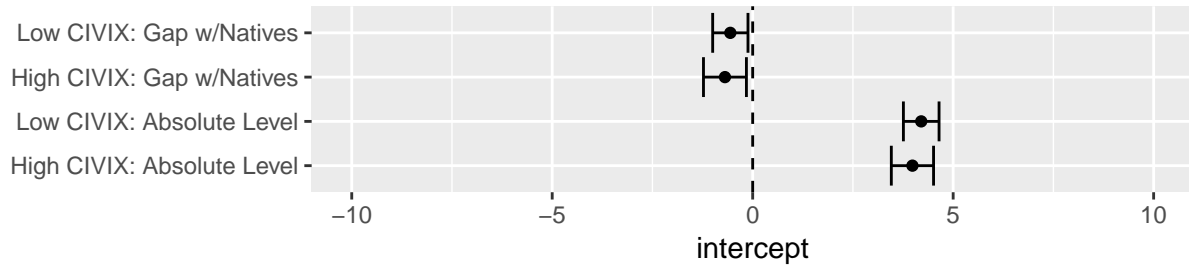



Figure 9: General trust by CIVIX in EU-15, < 10 yrs

```
ppltrst.l.1 = lm(ppltrst ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # absolute level
ppltrst.l.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.tenyr) # gap

absolute.h = as.vector(c(ppltrst.h.1$coefficients[1], confint(ppltrst.h.1)[1,]))
absolute.l = as.vector(c(ppltrst.l.1$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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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.l.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_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', 'High CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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("")
```

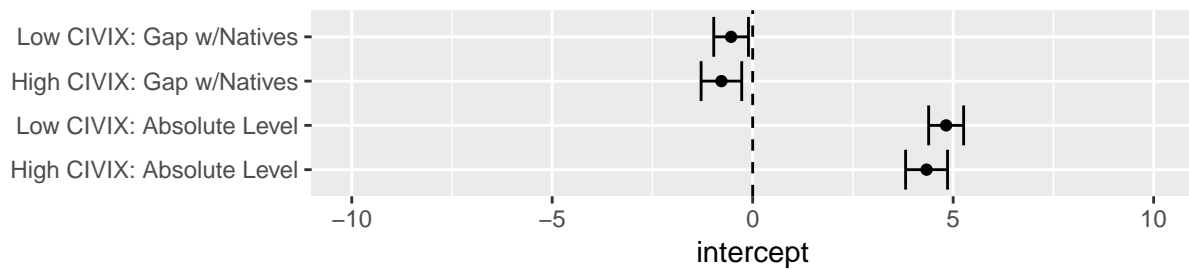


Figure 10: People being fair by CIVIX in EU-15, < 10 yrs

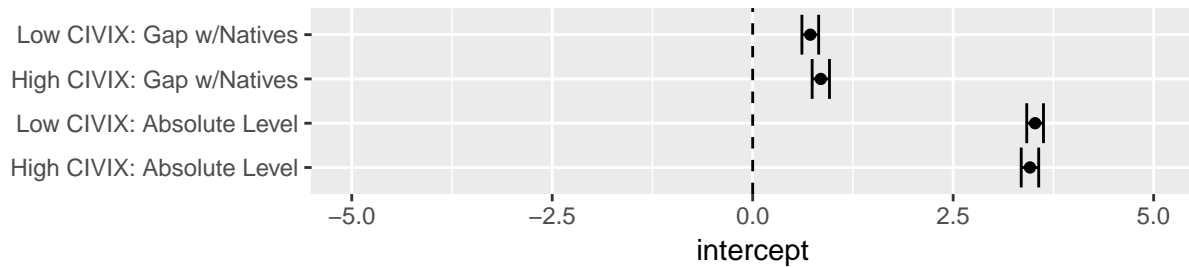


Figure 11: Political interests by CIVIX in EU-15, foreign-borns

```
ylab("")
```

Foreign borns

```
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.l.2 = lm(poli.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # gap

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

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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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("")

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
```

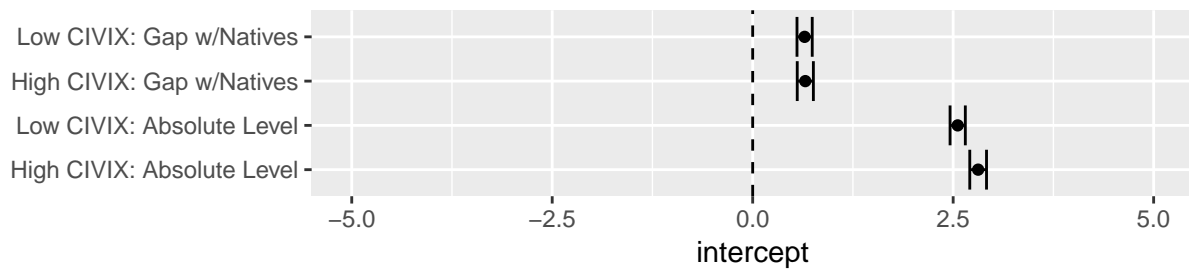


Figure 12: Financial situation by CIVIX in EU-15, foreign-borns

```

hincfel.l.1 = lm(hincfel ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # absolute level
hincfel.l.2 = lm(hincfel.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # gap

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

gap.h = as.vector(c(hincfel.h.2$coefficients[1], confint(hincfel.h.2)[1,]))
gap.l = as.vector(c(hincfel.l.2$coefficients[1], confint(hincfel.l.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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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.fborn, family = binomial)
employ.h.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_h.fborn) # gap
employ.l.1 = glm(employ ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn, family = binomial)
employ.l.2 = lm(employ.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # gap

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$coefficients[1], confint(employ.h.2)[1,]))
gap.l = as.vector(c(employ.l.2$coefficients[1], confint(employ.l.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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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("")

```

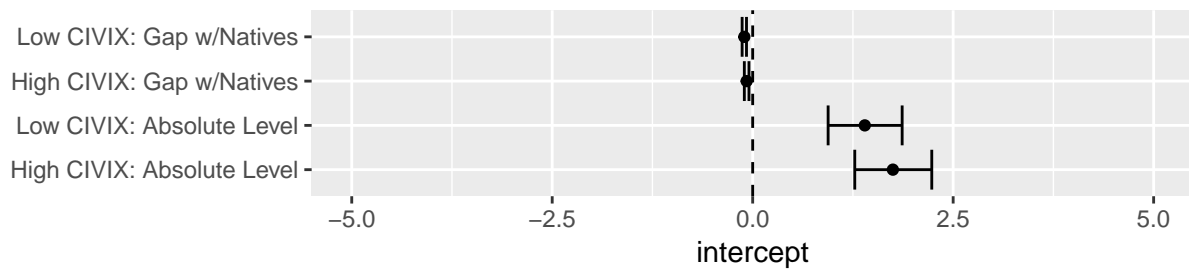


Figure 13: Employment by CIVIX, foreign-borns

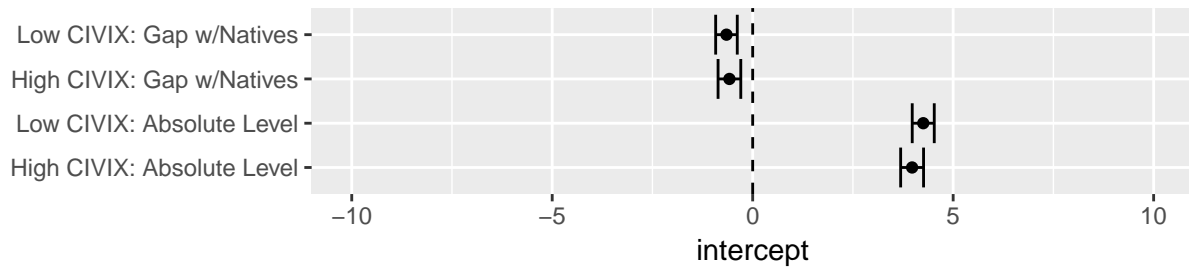


Figure 14: General trust by CIVIX in EU-15, foreign-borns

```

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.l.2 = lm(ppltrst.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # gap

absolute.h = as.vector(c(ppltrst.h.1$coefficients[1], confint(ppltrst.h.1)[1,]))
absolute.l = as.vector(c(ppltrst.l.1$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 CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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) # gap
pplfair.l.1 = lm(pplfair ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # absolute level
pplfair.l.2 = lm(pplfair.gap ~ agea + ethnic + female + edu + eubirth, data = ess_l.fborn) # gap

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

```

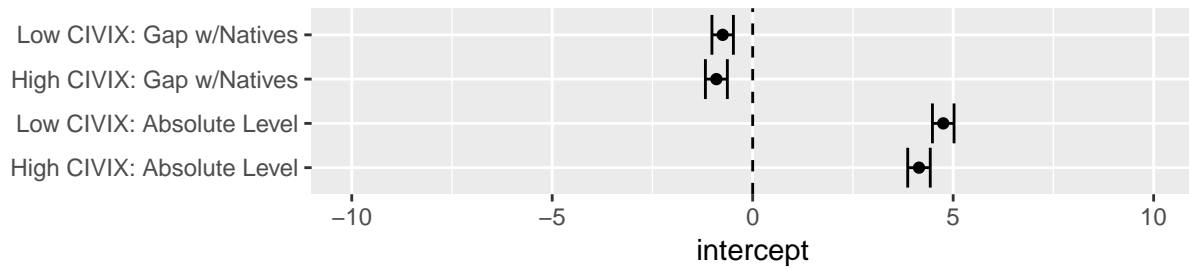


Figure 15: People being fair by CIVIX in EU-15, foreign-borns

```
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', 'High CIVIX: Gap w/Natives', 'Low CIVIX: Gap w/Natives'))
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("")
```