Different models

Yuan-Ning Chu

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```r
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")
```

```r
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, mo
  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, mo
  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, mo
  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, mo
  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)))))
ess_2010$polcmpl = NA
ess_2010$poldcs = NA
```

```r
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
```

Playing with the models

Political Incorporation

```
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)

ess_raw$contplt = ifelse(ess_raw$contplt == 2, 0, ess_raw$contplt)
ess_raw$wrkprty = ifelse(ess_raw$wrkprty == 2, 0, ess_raw$wrkprty)
ess_raw$wrkorg = ifelse(ess_raw$wrkorg == 2, 0, ess_raw$wrkorg)
ess_raw$badge = ifelse(ess_raw$badge == 2, 0, ess_raw$badge)
ess_raw$sgnptit = ifelse(ess_raw$sgnptit == 2, 0, ess_raw$sgnptit)
ess_raw$pbldmn = ifelse(ess_raw$pbldmn == 2, 0, ess_raw$pbldmn)
ess_raw$bctprd = ifelse(ess_raw$bctprd == 2, 0, ess_raw$bctprd)

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.ilglpst = mean(ilglpst, 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')
```

```
civix.cntry = c("AT", "BE", "DK", "FI", "FR", "DE", "GR", "IE", "NL", "PT", "ES", "SE", "GB")
civix.sc =   as.numeric( c(5.5, 1.25, 8.25,  2.5,   5,    7, 5.25,   1, 6.25, 1.25, 2.5, 0, 5.5))
civix.1 = as.data.frame(t(rbind(civix.cntry, civix.sc)))
colnames(civix.1) = c("cntry", "civix")
civix.1$civix = as.numeric(civix.1$civix)
ess_pol = ess_pol %>% left_join(civix.1, by = 'cntry')

ess_pol = ess_pol %>% 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.1 = glm(contplt ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol, family = "binomial
pol.2 = lm(contplt.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

stargazer(pol.1, pol.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "worked in political party or group",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 1:

	worked in political party or group	
	contplt	contplt.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.022***	0.002***
	(0.006)	(0.0005)
Ethnicity	0.297*	0.016
	(0.158)	(0.013)
Female	−0.225	−0.019*
	(0.139)	(0.011)
Education	0.302***	0.017***
	(0.051)	(0.004)
Born in Europe	0.603***	0.043***
	(0.161)	(0.015)
CIVIX	−0.063**	−0.005**
	(0.028)	(0.002)
Constant	−3.974***	−0.154***
	(0.333)	(0.025)
Observations	2,579	2,579
R^2		0.023
Adjusted R^2		0.021
Log Likelihood	−749.184	
Akaike Inf. Crit.	1,512.367	
Residual Std. Error		0.286 (df = 2572)
F Statistic		10.138*** (df = 6; 2572)

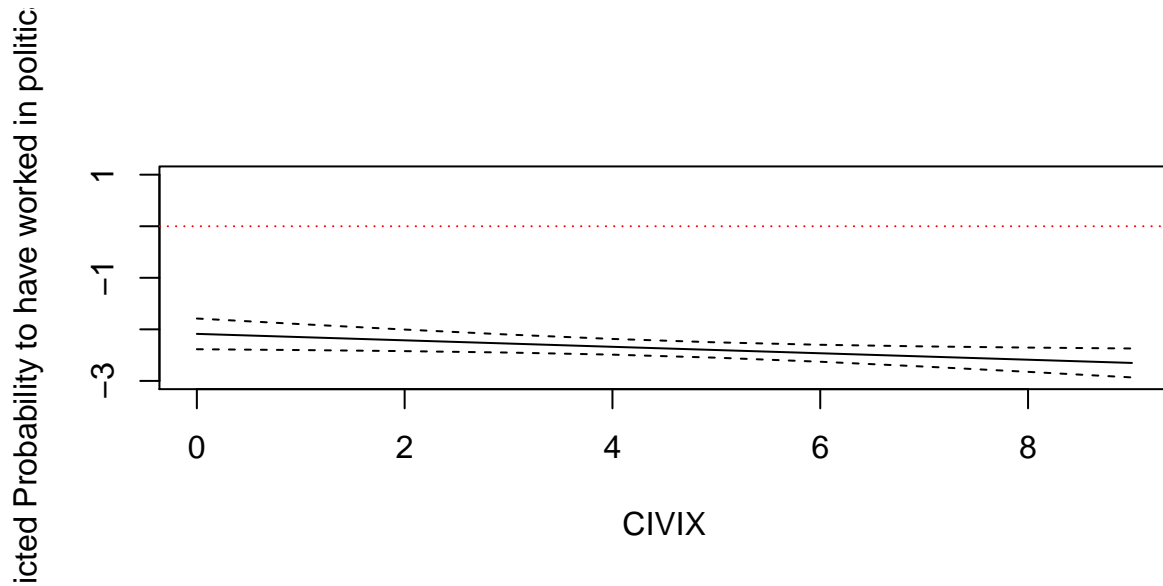| *Note:*	*p<0.1; **p<0.05; ***p<0.01

Figure 1: Predicted Probability to have contacted politician

```r
pred.pol.dat = with(ess_pol, 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),
                                        civix = 0:9))

pred.pol = pol.1 %>%
  broom::augment(newdata = pred.pol.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.pol$.fitted, type = "l",
     ylab = "Predicted Probability to have worked in political party",
     xlab = "CIVIX",
     ylim = c(-3,1)
     )
  lines(0:9, pred.pol$lower, lty = 2)
  lines(0:9, pred.pol$upper, lty = 2)
  abline(h = 0, lty=3, col="red")
```

```r
wrkprty.1 = glm(wrkprty ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol, family = "bin
wrkprty.2 = lm(wrkprty.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

# stargazer(wrkprty.1, wrkprty.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "worked in political party",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

# pred.pol = wrkprty.1 %>%
#   broom::augment(newdata = pred.pol.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
```

4

```r
#          lower = .fitted - 1.96 * .se.fit)
#
# plot(0:9, pred.pol$.fitted, type = "l",
#      ylab = "Predicted Probability to have worked in political party",
#      xlab = "CIVIX",
#      ylim = c(-5,-1)
#      )
#   lines(0:9, pred.pol$lower, lty = 2)
#   lines(0:9, pred.pol$upper, lty = 2)
```

```r
wrkorg.1 = glm(wrkorg ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol, family = "binom
wrkorg.2 = lm(wrkorg.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

stargazer(wrkorg.1, wrkorg.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "have worked in another organisation",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```r
# pred.pol = wrkorg.1 %>%
#   broom::augment(newdata = pred.pol.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
#          lower = .fitted - 1.96 * .se.fit)
#
# plot(0:9, pred.pol$.fitted, type = "l",
#      ylab = "Predicted Probability to have worked in another organisation",
#      xlab = "CIVIX",
#      ylim = c(-5,-1)
#      )
#   lines(0:9, pred.pol$lower, lty = 2)
#   lines(0:9, pred.pol$upper, lty = 2)
wrkorg.2.plot = wrkorg.2 %>% broom::augment(.) %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

# plot(ess_pol$civix, ess_pol$wrkorg.gap)
#   abline(wrkorg.2)

# plot(wrkorg.2)

# ggplot(wrkorg.2.plot, aes(civix, wrkorg.gap)) +
#   geom_point() +
#   geom_smooth(data = wrkorg.2.plot, aes(civix, .fitted), method = "lm") +
#   xlab("worked in another organisation") +
#   theme_bw()
```

```r
badge.1 = glm(badge ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol, family = "binomial
badge.2 = lm(badge.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

# stargazer(badge.1, badge.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "Worn or displayed campaign badge/sticker",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

# pred.pol = badge.1 %>%
```

Table 2:

	have worked in another organisation	
	wrkorg	wrkorg.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.011*	0.0004
	(0.006)	(0.0005)
Ethnicity	0.326*	0.023*
	(0.168)	(0.012)
Female	−0.149	−0.017
	(0.149)	(0.011)
Education	0.305***	0.020***
	(0.055)	(0.004)
Born in Europe	0.589***	0.039***
	(0.174)	(0.014)
CIVIX	−0.016	−0.006***
	(0.030)	(0.002)
Constant	−4.034***	−0.130***
	(0.357)	(0.023)
Observations	2,583	2,583
R^2		0.022
Adjusted R^2		0.020
Log Likelihood	−678.268	
Akaike Inf. Crit.	1,370.537	
Residual Std. Error		0.269 (df = 2576)
F Statistic		9.785*** (df = 6; 2576)

Note: *p<0.1; **p<0.05; ***p<0.01

```r
#   broom::augment(newdata = pred.pol.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
#          lower = .fitted - 1.96 * .se.fit)
#
# plot(0:9, pred.pol$.fitted, type = "l",
#      ylab = "Predicted Probability to have worn or displayed campaign badge/sticker",
#      xlab = "CIVIX",
#      ylim = c(-5,-1)
#      )
#   lines(0:9, pred.pol$lower, lty = 2)
#   lines(0:9, pred.pol$upper, lty = 2)
```

```r
sgnptit.1 = glm(sgnptit ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol, family = "bin
sgnptit.2 = lm(sgnptit.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

stargazer(sgnptit.1, sgnptit.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "Signed petition",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```r
pred.pol = badge.1 %>%
  broom::augment(newdata = pred.pol.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.pol$.fitted, type = "l",
     ylab = "Predicted Probability to have signed petition",
     xlab = "CIVIX",
     ylim = c(-5,0)
     )
  lines(0:9, pred.pol$lower, lty = 2)
  lines(0:9, pred.pol$upper, lty = 2)
  abline(h = 0, lty=3, col="red")
```

```r
pbldmn.1 = glm(pbldmn ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol, family = "binom
pbldmn.2 = lm(pbldmn.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

# stargazer(pbldmn.1, pbldmn.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "Taken part in lawful public demonstration",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

# pred.pol = badge.1 %>%
#   broom::augment(newdata = pred.pol.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
#          lower = .fitted - 1.96 * .se.fit)
#
# plot(0:9, pred.pol$.fitted, type = "l",
#      ylab = "Predicted Probability to have taken part in lawful public demonstration",
#      xlab = "CIVIX",
#      ylim = c(-5,-1)
#      )
#   lines(0:9, pred.pol$lower, lty = 2)
#   lines(0:9, pred.pol$upper, lty = 2)
```

Table 3:

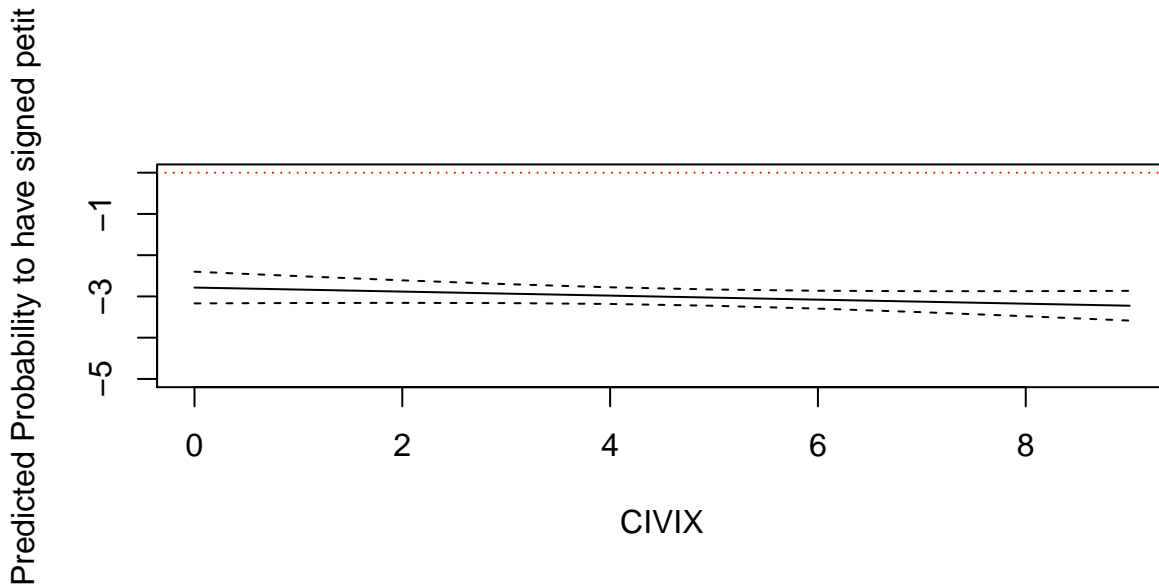|	Signed petition	
	sgnptit	sgnptit.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	−0.006	−0.001
	(0.005)	(0.001)
Ethnicity	0.065	0.004
	(0.136)	(0.015)
Female	0.015	0.005
	(0.117)	(0.014)
Education	0.319***	0.023***
	(0.043)	(0.005)
Born in Europe	1.009***	0.143***
	(0.133)	(0.018)
CIVIX	0.044*	−0.002
	(0.023)	(0.003)
Constant	−3.227***	−0.181***
	(0.277)	(0.029)
Observations	2,575	2,575
R^2		0.042
Adjusted R^2		0.039
Log Likelihood	−983.724	
Akaike Inf. Crit.	1,981.447	
Residual Std. Error		0.341 (df = 2568)
F Statistic		18.637*** (df = 6; 2568)

Note: *p<0.1; **p<0.05; ***p<0.01

Figure 2: Signed petition

```r
bctprd.1 = glm(bctprd ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol, family = "binom
bctprd.2 = lm(bctprd.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

stargazer(bctprd.1, bctprd.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "boycotted certain products",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```r
pred.pol = bctprd.1 %>%
  broom::augment(newdata = pred.pol.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.pol$.fitted, type = "l",
     ylab = "Predicted Probability to boycotted certain products",
     xlab = "CIVIX",
     ylim = c(-5,0)
     )
  lines(0:9, pred.pol$lower, lty = 2)
  lines(0:9, pred.pol$upper, lty = 2)
```

```r
stfgov.1 = lm(stfgov ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # absolute level
stfgov.2 = lm(stfgov.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

stargazer(stfgov.1, stfgov.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "satisfaction with government",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```r
tvpol.1 = lm(tvpol ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # absolute level
tvpol.2 = lm(tvpol.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap
```

Table 4:

	boycotted certain products	
	bctprd	bctprd.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.002	0.0001
	(0.006)	(0.001)
Ethnicity	0.116	0.012
	(0.155)	(0.013)
Female	−0.059	−0.009
	(0.132)	(0.012)
Education	0.384***	0.025***
	(0.050)	(0.004)
Born in Europe	1.144***	0.147***
	(0.146)	(0.016)
CIVIX	0.043*	−0.007***
	(0.026)	(0.002)
Constant	−4.100***	−0.130***
	(0.325)	(0.026)
Observations	2,578	2,578
R^2		0.062
Adjusted R^2		0.060
Log Likelihood	−807.523	
Akaike Inf. Crit.	1,629.047	
Residual Std. Error		0.302 (df = 2571)
F Statistic		28.468*** (df = 6; 2571)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 5:

	satisfaction with government	
	stfgov Abs. Level	stfgov.gap Gap w/ Natives
	(1)	(2)
Age	−0.001	−0.002
	(0.004)	(0.004)
Ethnicity	−0.005	−0.075
	(0.109)	(0.107)
Female	0.032	0.020
	(0.098)	(0.095)
Education	−0.054	−0.099***
	(0.034)	(0.033)
Born in Europe	−0.642***	−0.810***
	(0.130)	(0.127)
CIVIX	−0.035*	−0.012
	(0.020)	(0.019)
Constant	5.679***	1.691***
	(0.213)	(0.208)
Observations	2,322	2,322
R^2	0.015	0.025
Adjusted R^2	0.012	0.023
Residual Std. Error (df = 2315)	2.341	2.287
F Statistic (df = 6; 2315)	5.706***	9.939***

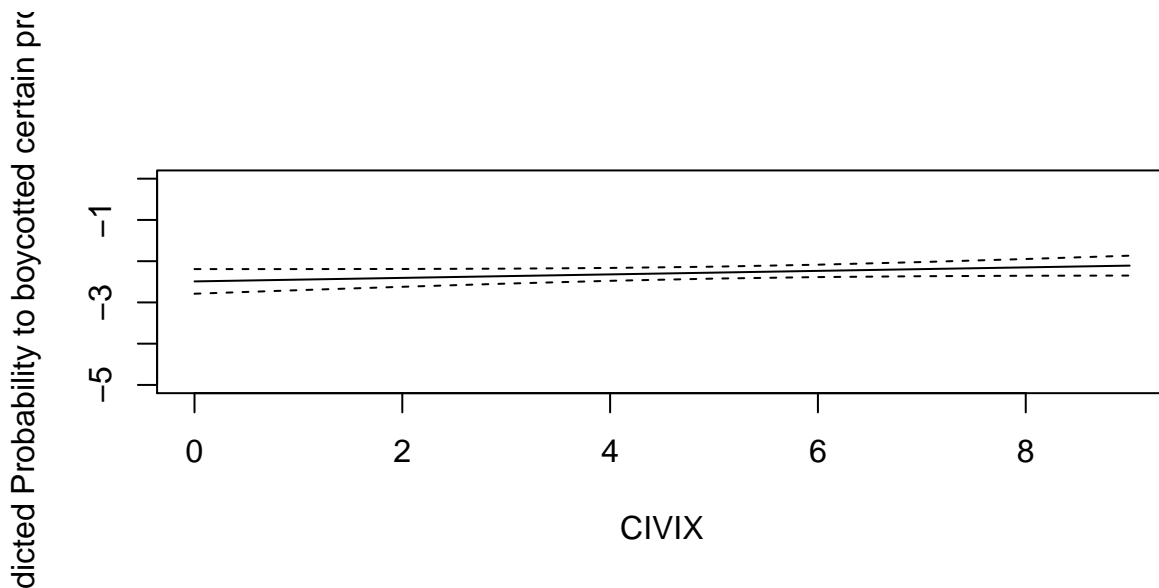*Note:* *p<0.1; **p<0.05; ***p<0.01

Figure 3: boycotted certain products

```
stargazer(tvpol.1, tvpol.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption = "Watching TV for News about Politics",
          column.labels = c("Abs. Level", "Gap w/ Natives"))

rdpol.1 = lm(rdpol ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # absolute level
rdpol.2 = lm(rdpol.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

stargazer(rdpol.1, rdpol.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption = "Listening to Radio for News about Politics",
          column.labels = c("Abs. Level", "Gap w/ Natives"))

nwsppol.1 = lm(nwsppol ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # absolute lev
nwsppol.2 = lm(nwsppol.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_pol) # gap

stargazer(nwsppol.1, nwsppol.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption = "Reading Newspaper for News about Politics",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

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
```

Table 6:

	Watching TV for News about Politics	
	tvpol Abs. Level	tvpol.gap Gap w/ Natives
	(1)	(2)
Age	0.019***	0.020***
	(0.002)	(0.002)
Ethnicity	−0.020	−0.055
	(0.061)	(0.060)
Female	−0.129**	−0.133**
	(0.054)	(0.054)
Education	0.081***	0.062***
	(0.019)	(0.019)
Born in Europe	−0.133*	−0.163**
	(0.072)	(0.072)
CIVIX	−0.017	−0.016
	(0.011)	(0.011)
Constant	1.039***	−0.883***
	(0.117)	(0.116)
Observations	2,426	2,426
R^2	0.040	0.039
Adjusted R^2	0.037	0.037
Residual Std. Error (df = 2419)	1.329	1.319
F Statistic (df = 6; 2419)	16.686***	16.546***

Note: *p<0.1; **p<0.05; ***p<0.01

Table 7:

	Listening to Radio for News about Politics	
	rdpol Abs. Level	rdpol.gap Gap w/ Natives
	(1)	(2)
Age	0.016***	0.015***
	(0.003)	(0.003)
Ethnicity	−0.033	−0.071
	(0.074)	(0.074)
Female	−0.110*	−0.095
	(0.065)	(0.065)
Education	0.127***	0.083***
	(0.023)	(0.023)
Born in Europe	0.126	−0.001
	(0.081)	(0.080)
CIVIX	−0.023*	0.020
	(0.013)	(0.013)
Constant	0.426***	−1.144***
	(0.144)	(0.142)
Observations	1,677	1,677
R^2	0.051	0.029
Adjusted R^2	0.048	0.025
Residual Std. Error (df = 1670)	1.327	1.314
F Statistic (df = 6; 1670)	15.003***	8.215***

Note: *p<0.1; **p<0.05; ***p<0.01

Table 8:

	Reading Newspaper for News about Politics	
	nwsppol Abs. Level	nwsppol.gap Gap w/ Natives
	(1)	(2)
Age	0.009***	0.009***
	(0.002)	(0.002)
Ethnicity	0.053	0.046
	(0.052)	(0.052)
Female	−0.139***	−0.145***
	(0.046)	(0.046)
Education	0.109***	0.109***
	(0.016)	(0.016)
Born in Europe	0.154***	0.125**
	(0.058)	(0.058)
CIVIX	−0.011	−0.006
	(0.009)	(0.009)
Constant	0.522***	−0.719***
	(0.101)	(0.102)
Observations	1,630	1,630
R^2	0.060	0.053
Adjusted R^2	0.056	0.050
Residual Std. Error (df = 1623)	0.918	0.928
F Statistic (df = 6; 1623)	17.167***	15.219***

Note: *p<0.1; **p<0.05; ***p<0.01

```r
## 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$lnghoma # Language most often spoken at home: first mentioned *** COME BACK FOR THIS
#
# ### citizen involvement
#
# ess_raw$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$rlgoptp # Religious/church organisation, last 12 months: participated
#
# ess_raw$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$othvptp # 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) %>%
```

```r
    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))

ess_soc = ess_raw %>% filter(residence == 1)
ess_soc = ess_soc %>% left_join(soc_mean, by='cntry')

ess_soc = ess_soc %>% left_join(civix.1, by = 'cntry')

ess_soc = ess_soc %>%  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
  )

stflife.1 = lm(stflife ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # absolute lev
stflife.2 = lm(stflife.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # gap

# stargazer(stflife.1, stflife.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "Satisfaction with Life",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

pplhlp.1 = lm(pplhlp ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # absolute level
pplhlp.2 = lm(pplhlp.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # gap

# stargazer(pplhlp.1, pplhlp.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "People are helpful",
```

```
#            column.labels = c("Abs. Level", "Gap w/ Natives"))

happy.1 = lm(happy ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # absolute level
happy.2 = lm(happy.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # gap

# stargazer(happy.1, happy.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "People are helpful",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

aesfdrk.1 = lm(aesfdrk ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # absolute lev
aesfdrk.2 = lm(aesfdrk.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # gap

stargazer(aesfdrk.1, aesfdrk.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "Feel safe after dark",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 9:

| | Feel safe after dark | |
| | aesfdrk
Abs. Level | aesfdrk.gap
Gap w/ Natives |
	(1)	(2)
Age	−0.004***	−0.004***
	(0.001)	(0.001)
Ethnicity	0.040	0.032
	(0.033)	(0.034)
Female	0.337***	0.345***
	(0.030)	(0.030)
Education	−0.035***	−0.034***
	(0.010)	(0.010)
Born in Europe	−0.055	−0.036
	(0.039)	(0.040)
CIVIX	0.015**	0.014**
	(0.006)	(0.006)
Constant	2.033***	−0.051
	(0.065)	(0.066)
Observations	2,582	2,582
R^2	0.063	0.061
Adjusted R^2	0.061	0.059
Residual Std. Error (df = 2575)	0.753	0.760
F Statistic (df = 6; 2575)	28.848***	27.907***

Note: *p<0.1; **p<0.05; ***p<0.01

18

```
health.1 = lm(health ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # absolute level
health.2 = lm(health.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # gap

stargazer(health.1, health.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "subjective general health",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 10:

	subjective general health	
	health Abs. Level	health.gap Gap w/ Natives
	(1)	(2)
Age	0.014***	0.014***
	(0.001)	(0.001)
Ethnicity	−0.032	0.023
	(0.034)	(0.034)
Female	0.095***	0.090***
	(0.031)	(0.030)
Education	−0.050***	−0.027***
	(0.011)	(0.010)
Born in Europe	−0.114***	−0.003
	(0.041)	(0.040)
CIVIX	0.011*	−0.004
	(0.006)	(0.006)
Constant	1.473***	−0.718***
	(0.067)	(0.066)
Observations	2,597	2,597
R^2	0.051	0.047
Adjusted R^2	0.048	0.045
Residual Std. Error (df = 2590)	0.780	0.769
F Statistic (df = 6; 2590)	23.001***	21.277***

Note: *p<0.1; **p<0.05; ***p<0.01

```
dscrgrp.1 = glm(dscrgrp ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc, family = "bin
dscrgrp.2 = lm(dscrgrp.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # gap

# stargazer(dscrgrp.1, dscrgrp.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "subjective general health",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```
main.lan.1 = glm(main.lan ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc, family = "b:
main.lan.2 = lm(lan.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_soc) # gap

stargazer(main.lan.1, main.lan.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "language spoken at home",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 11:

	language spoken at home	
	main.lan	lan.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.010**	0.002**
	(0.004)	(0.001)
Ethnicity	−0.464***	−0.108***
	(0.092)	(0.021)
Female	0.086	0.018
	(0.084)	(0.019)
Education	−0.052*	−0.012*
	(0.029)	(0.006)
Born in Europe	0.530***	0.107***
	(0.118)	(0.025)
CIVIX	0.087***	0.019***
	(0.017)	(0.004)
Constant	0.038	−0.457***
	(0.183)	(0.041)
Observations	2,597	2,597
R^2		0.031
Adjusted R^2		0.029
Log Likelihood	−1,643.609	
Akaike Inf. Crit.	3,301.218	
Residual Std. Error		0.473 (df = 2590)
F Statistic		13.907*** (df = 6; 2590)

Note: *p<0.1; **p<0.05; ***p<0.01

```
pred.soc.dat = with(ess_soc, 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),
                                        civix = 0:9))
```

```
pred.soc = main.lan.1 %>%
  broom::augment(newdata = pred.soc.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.soc$.fitted, type = "l",
     ylab = "Predicted Probability to speak mainstream languages at home",
     xlab = "CIVIX" ,
     ylim = c(0,1)
     )
  lines(0:9, pred.soc$lower, lty = 2)
  lines(0:9, pred.soc$upper, lty = 2)
  abline(h = 0, lty=3, col="red")
```
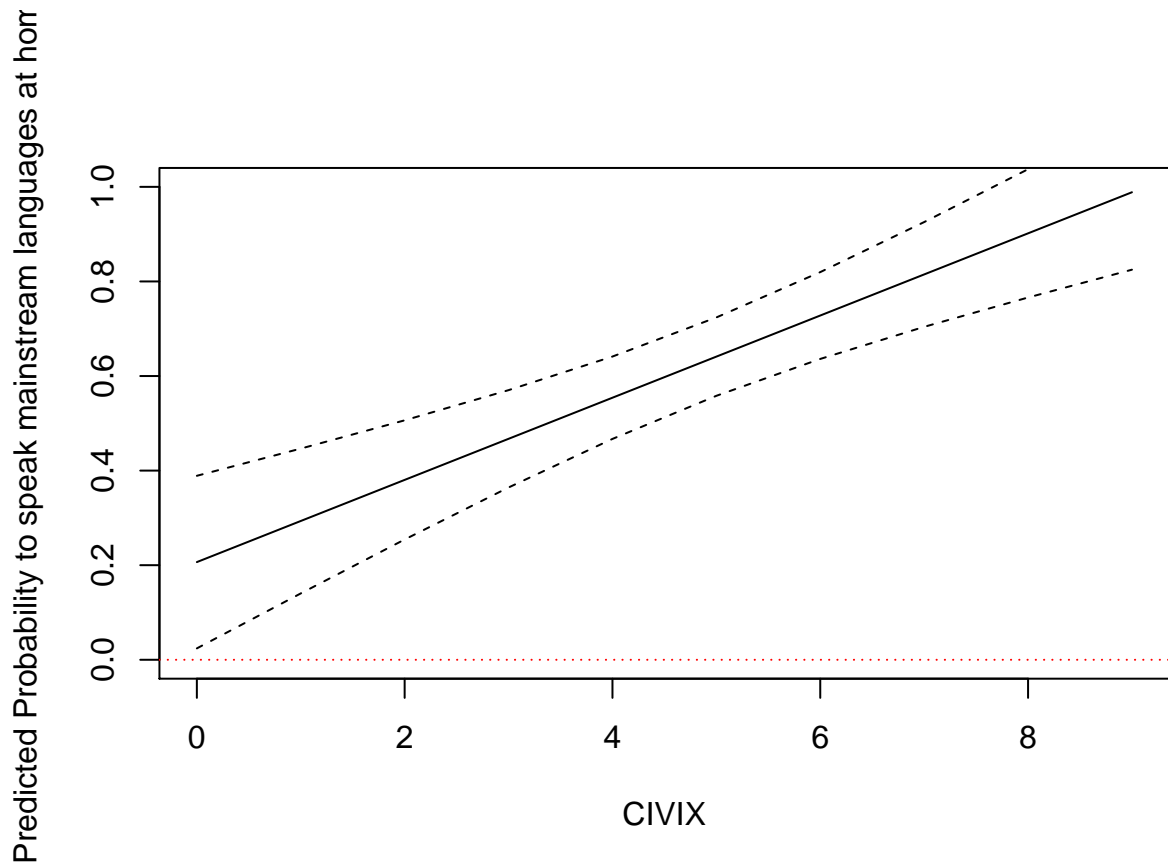

Socioeconomic incorporation

```
# 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
```

```r
# 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')
```

Warning: Column `essround` has different attributes on LHS and RHS of join

```r
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))
```

```r
ess_raw$soc.welfare = ifelse(ess_raw$hincsrca == 5 | ess_raw$hincsrca == 6, 1, 0)

ses_mean = ess_raw %>% filter(citizen == 1, fborn == 0) %>% group_by(cntry) %>%
  select(pdjobev, pdjobyr, emplno, wrkctr, jbspv, wkdcorga, wkhtot, skill, blue, contract, hinctnt, uemp
  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),
            mean.soc.welfare = mean(soc.welfare, na.rm = TRUE),
            mean.brwmny = mean(brwmny, na.rm = TRUE))
```

```
## Adding missing grouping variables: `cntry`
```

```r
ess_ses = ess_raw %>% filter(residence == 1)
ess_ses = ess_ses %>% left_join(ses_mean, by='cntry')

ess_ses = ess_ses %>% left_join(civix.1, by = 'cntry')
```

```
## Warning: Column `cntry` joining character vector and factor, coercing into
## character vector
```

```
## Warning: Column `cntry` has different attributes on LHS and RHS of join
```

```r
ess_ses = ess_ses %>% 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,
  soc.welfare.gap = soc.welfare - mean.soc.welfare,
  brwmny.gap = brwmny - mean.brwmny
  )
```

```
## Warning in mutate_impl(.data, dots, caller_env()): Vectorizing
## 'haven_labelled' elements may not preserve their attributes

## Warning in mutate_impl(.data, dots, caller_env()): Vectorizing
```

```
## 'haven_labelled' elements may not preserve their attributes

## Warning in mutate_impl(.data, dots, caller_env()): Vectorizing
## 'haven_labelled' elements may not preserve their attributes

## Warning in mutate_impl(.data, dots, caller_env()): Vectorizing
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## 'haven_labelled' elements may not preserve their attributes

## Warning in mutate_impl(.data, dots, caller_env()): Vectorizing
## 'haven_labelled' elements may not preserve their attributes
```

```r
ses.dat = with(ess_ses, 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),
                          civix = 0:9))
```

```r
pdjobev.1 = glm(pdjobev ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "bin
pdjobev.2 = lm(pdjobev.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

# stargazer(pdjobev.1, pdjobev.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "language spoken at home",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

# absolute = pdjobev.1 %>%
#   broom::augment(newdata = ses.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
#          lower = .fitted - 1.96 * .se.fit) %>%
#   select(.fitted, upper, lower)
```

```r
pdjobyr.1 = lm(pdjobyr ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # absolute lev
pdjobyr.2 = lm(pdjobyr.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

# stargazer(pdjobyr.1, pdjobyr.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "language spoken at home",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```r
self.emply.1 = glm(self.emply ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family

# stargazer(self.emply.1, type = "latex", header = FALSE,
```

```r
#          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#          dep.var.caption  = "language spoken at home",
#          column.labels = c("Abs. Level", "Gap w/ Natives"))

emplno.1 = lm(emplno ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # absolute level
emplno.2 = lm(emplno.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

# stargazer(emplno.1, emplno.2, type = "latex", header = FALSE,
#          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#          dep.var.caption  = "language spoken at home",
#          column.labels = c("Abs. Level", "Gap w/ Natives"))

contract.1 = glm(contract ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "b
contract.2 = lm(contract.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

stargazer(contract.1, contract.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "working under contract",
          column.labels = c("Abs. Level", "Gap w/ Natives"))

pred.ses = contract.1 %>%
  broom::augment(newdata = ses.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.ses$.fitted, type = "l",
     ylab = "Predicted Probability to work under contracts",
     xlab = "CIVIX"  ,ylim = c(0,2.5)
     )
  lines(0:9, pred.ses$lower, lty = 2)
  lines(0:9, pred.ses$upper, lty = 2)
  abline(h = 0, lty=3, col="red")
```

Table 12:

	working under contract	
	contract	contract.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.006	0.001
	(0.006)	(0.001)
Ethnicity	−0.264*	−0.014
	(0.136)	(0.019)
Female	−0.138	−0.024
	(0.124)	(0.016)
Education	0.234***	0.042***
	(0.043)	(0.006)
Born in Europe	0.397**	0.073***
	(0.180)	(0.021)
CIVIX	0.098***	−0.002
	(0.026)	(0.003)
Constant	0.242	−0.188***
	(0.278)	(0.038)
Observations	1,911	1,911
R^2		0.042
Adjusted R^2		0.039
Log Likelihood	−844.070	
Akaike Inf. Crit.	1,702.139	
Residual Std. Error		0.358 (df = 1904)
F Statistic		13.941*** (df = 6; 1904)

Note: *p<0.1; **p<0.05; ***p<0.01
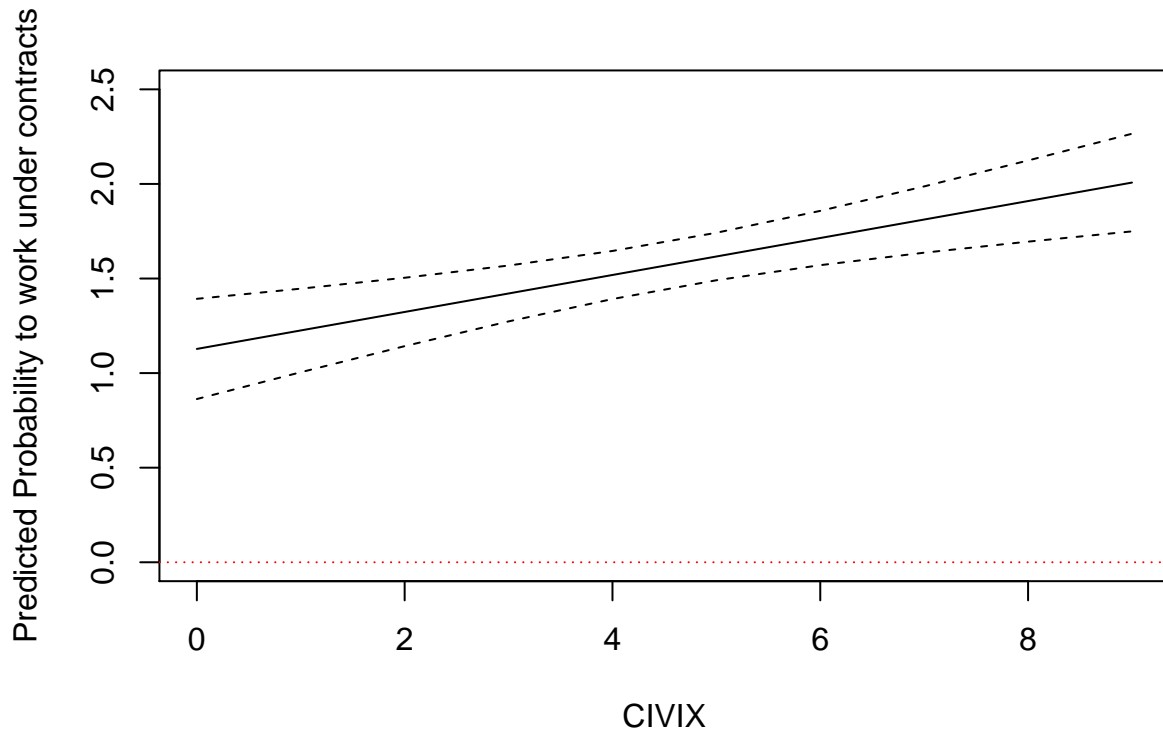
```
jbspv.1 = glm(jbspv ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "binomial"
jbspv.2 = lm(jbspv.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

stargazer(jbspv.1, jbspv.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "working under contract",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```
# pred.ses = jbspv.1 %>%
#   broom::augment(newdata = ses.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
#          lower = .fitted - 1.96 * .se.fit)
#
# plot(0:9, pred.ses$.fitted, type = "l",
#      ylab = "Predicted Probability to work under contracts",
#      xlab = "CIVIX"  ,ylim = c(0,2.5)
#      )
#   lines(0:9, pred.ses$lower, lty = 2)
#   lines(0:9, pred.ses$upper, lty = 2)
```

```
wkdcorga.1 = lm(wkdcorga ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # absolute l
wkdcorga.2 = lm(wkdcorga.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

stargazer(wkdcorga.1, wkdcorga.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "control over organization of daily work",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```
wkhtot.1 = lm(wkhtot ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # absolute level
wkhtot.2 = lm(wkhtot.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap
```

Table 13:

	working under contract	
	jbspv	jbspv.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.018***	0.003***
	(0.005)	(0.001)
Ethnicity	−0.046	−0.018
	(0.124)	(0.019)
Female	−0.575***	−0.090***
	(0.108)	(0.017)
Education	0.475***	0.064***
	(0.041)	(0.006)
Born in Europe	0.367***	0.041*
	(0.127)	(0.022)
CIVIX	−0.023	−0.014***
	(0.021)	(0.003)
Constant	−3.259***	−0.276***
	(0.267)	(0.039)
Observations	2,199	2,199
R^2		0.084
Adjusted R^2		0.082
Log Likelihood	−1,079.669	
Akaike Inf. Crit.	2,173.338	
Residual Std. Error		0.397 (df = 2192)
F Statistic		33.690*** (df = 6; 2192)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 14:

	control over organization of daily work	
	wkdcorga Abs. Level	wkdcorga.gap Gap w/ Natives
	(1)	(2)
Age	0.036***	0.036***
	(0.007)	(0.007)
Ethnicity	−0.669***	−0.674***
	(0.171)	(0.168)
Female	−0.088	−0.115
	(0.152)	(0.150)
Education	0.642***	0.607***
	(0.053)	(0.052)
Born in Europe	0.966***	0.954***
	(0.196)	(0.193)
CIVIX	−0.062**	−0.145***
	(0.031)	(0.031)
Constant	1.936***	−3.699***
	(0.352)	(0.348)
Observations	1,991	1,991
R^2	0.127	0.134
Adjusted R^2	0.125	0.132
Residual Std. Error (df = 1984)	3.369	3.322
F Statistic (df = 6; 1984)	48.273***	51.363***

Note: *p<0.1; **p<0.05; ***p<0.01

31

```
# stargazer(wkhtot.1, wkhtot.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "hours worked per week",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

skill.1 = glm(skill ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "binomial
skill.2 = lm(skill.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

stargazer(skill.1, skill.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "Skilled worker or not",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 15:

| | Skilled worker or not | |
	skill	skill.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.020***	0.004***
	(0.004)	(0.001)
Ethnicity	−0.020	−0.003
	(0.108)	(0.022)
Female	−1.197***	−0.259***
	(0.098)	(0.020)
Education	0.497***	0.106***
	(0.035)	(0.007)
Born in Europe	0.522***	0.106***
	(0.122)	(0.025)
CIVIX	0.040**	−0.002
	(0.019)	(0.004)
Constant	−2.203***	−0.424***
	(0.224)	(0.045)
Observations	2,186	2,186
R^2		0.176
Adjusted R^2		0.174
Log Likelihood	−1,305.462	
Akaike Inf. Crit.	2,624.924	
Residual Std. Error		0.456 (df = 2179)
F Statistic		77.688*** (df = 6; 2179)
Note:		*p<0.1; **p<0.05; ***p<0.01

```
pred.ses = skill.1 %>%
  broom::augment(newdata = ses.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.ses$.fitted, type = "l",
     ylab = "Predicted Probability to work under contracts",
     xlab = "CIVIX" ,ylim = c(-1, 0.5)
     )
  lines(0:9, pred.ses$lower, lty = 2)
  lines(0:9, pred.ses$upper, lty = 2)
  abline(h = 0, lty=3, col="red")
```
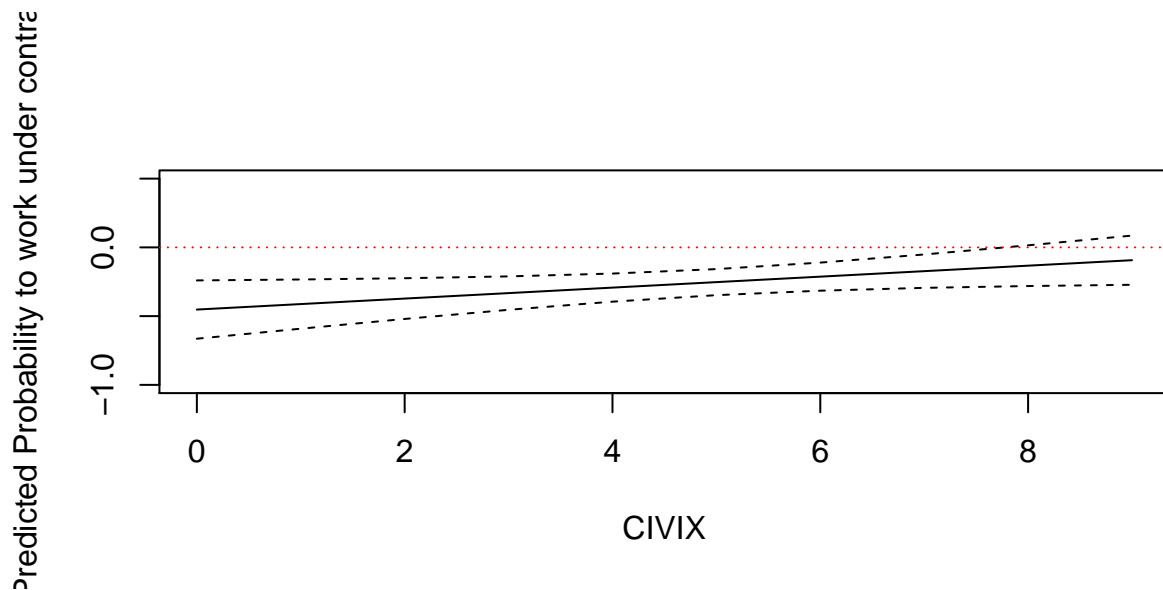


```
blue.1 = glm(blue ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "binomial")
blue.2 = lm(blue.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

stargazer(blue.1, blue.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "Skilled worker or not",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```
# pred.ses = blue.1 %>%
#   broom::augment(newdata = ses.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
#          lower = .fitted - 1.96 * .se.fit)
#
# plot(0:9, pred.ses$.fitted, type = "l",
#      ylab = "Predicted Probability to work under contracts",
#      xlab = "CIVIX" ,ylim = c(-1, 0.5)
#      )
#   lines(0:9, pred.ses$lower, lty = 2)
#   lines(0:9, pred.ses$upper, lty = 2)
```

```
hinctnt.1 = lm(hinctnt ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # absolute leve
hinctnt.2 = lm(hinctnt.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap
```

Table 16:

	Skilled worker or not	
	blue	blue.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.009*	0.002*
	(0.005)	(0.001)
Ethnicity	−0.097	−0.001
	(0.113)	(0.021)
Female	−1.127***	−0.216***
	(0.102)	(0.018)
Education	−0.650***	−0.119***
	(0.038)	(0.006)
Born in Europe	−1.340***	−0.184***
	(0.144)	(0.023)
CIVIX	−0.004	0.011***
	(0.021)	(0.004)
Constant	2.464***	0.519***
	(0.236)	(0.042)
Observations	2,186	2,186
R^2		0.236
Adjusted R^2		0.234
Log Likelihood	−1,183.450	
Akaike Inf. Crit.	2,380.899	
Residual Std. Error		0.424 (df = 2179)
F Statistic		112.483*** (df = 6; 2179)

Note:	*p<0.1; **p<0.05; ***p<0.01

```
stargazer(hinctnt.1, hinctnt.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "Skilled worker or not",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 17:

	Skilled worker or not	
	hinctnt Abs. Level	hinctnt.gap Gap w/ Natives
	(1)	(2)
Age	0.009**	0.009**
	(0.004)	(0.004)
Ethnicity	−0.254**	−0.347***
	(0.107)	(0.106)
Female	−0.169*	−0.213**
	(0.097)	(0.096)
Education	0.395***	0.340***
	(0.033)	(0.033)
Born in Europe	0.763***	0.583***
	(0.127)	(0.126)
CIVIX	−0.001	−0.048***
	(0.019)	(0.019)
Constant	3.301***	−1.465***
	(0.219)	(0.216)
Observations	1,892	1,892
R^2	0.114	0.099
Adjusted R^2	0.111	0.096
Residual Std. Error (df = 1885)	2.097	2.066
F Statistic (df = 6; 1885)	40.339***	34.639***

Note: *p<0.1; **p<0.05; ***p<0.01

```
uemp3m.1 = glm(uemp3m ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "binom
uemp3m.2 = lm(uemp3m.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

# stargazer(uemp3m.1, uemp3m.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "unemployed for three months",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))

uemp12m.1 = glm(uemp12m ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "bin
uemp12m.2 = lm(uemp12m.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

stargazer(uemp12m.1, uemp12m.2, type = "latex", header = FALSE,
```

```
        covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
        dep.var.caption  = "unemployed for three months",
        column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 18:

	unemployed for three months	
	uemp12m	uemp12m.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	0.030***	0.007***
	(0.007)	(0.002)
Ethnicity	0.269*	0.067**
	(0.137)	(0.033)
Female	0.361***	0.074**
	(0.130)	(0.031)
Education	−0.103**	−0.025**
	(0.045)	(0.011)
Born in Europe	−0.035	0.017
	(0.187)	(0.044)
CIVIX	0.079***	0.016***
	(0.026)	(0.006)
Constant	−1.662***	−0.345***
	(0.301)	(0.070)
Observations	1,049	1,049
R^2		0.043
Adjusted R^2		0.037
Log Likelihood	−692.271	
Akaike Inf. Crit.	1,398.542	
Residual Std. Error		0.493 (df = 1042)
F Statistic		7.745*** (df = 6; 1042)
Note:		*p<0.1; **p<0.05; ***p<0.01

```
pred.ses = uemp12m.1 %>%
  broom::augment(newdata = ses.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.ses$.fitted, type = "l",
     ylab = "Predicted Probability to be unemployed for twelve months",
     xlab = "CIVIX" ,ylim = c(-1, 1)
     )
  lines(0:9, pred.ses$lower, lty = 2)
```
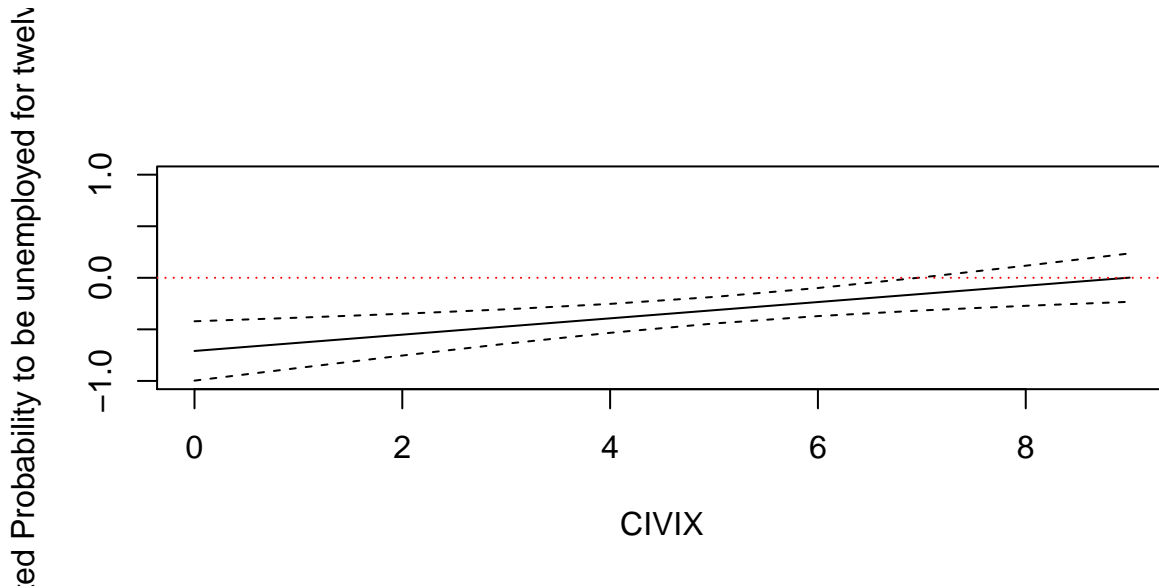
Figure 4: unemployed for twelve months

```r
  lines(0:9, pred.ses$upper, lty = 2)
  abline(h = 0, lty=3, col="red")

uemp5yr.1 = glm(uemp5yr ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family = "bin
uemp5yr.2 = lm(uemp5yr.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

stargazer(uemp5yr.1, uemp5yr.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "unemployed for five years",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

```r
# pred.ses = uemp5yr.1 %>%
#   broom::augment(newdata = ses.dat, predict = "response") %>%
#   mutate(upper = .fitted + 1.96 * .se.fit,
#          lower = .fitted - 1.96 * .se.fit)
#
# plot(0:9, pred.ses$.fitted, type = "l",
#      ylab = "Predicted Probability to be unemployed for twelve months",
#      xlab = "CIVIX" ,ylim = c(-1, 1)
#      )
#   lines(0:9, pred.ses$lower, lty = 2)
#   lines(0:9, pred.ses$upper, lty = 2)
#   abline(h = 0, lty=3, col="red")
```

```r
soc.welfare.1 = glm(soc.welfare ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses, family
soc.welfare.2 = lm(soc.welfare.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # 

stargazer(soc.welfare.1, soc.welfare.2, type = "latex", header = FALSE,
          covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
          dep.var.caption  = "unemployed for five years",
          column.labels = c("Abs. Level", "Gap w/ Natives"))
```

Table 19:

	unemployed for five years	
	uemp5yr	uemp5yr.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	−0.022***	−0.004***
	(0.007)	(0.001)
Ethnicity	0.287*	0.065**
	(0.160)	(0.029)
Female	0.058	0.011
	(0.147)	(0.028)
Education	−0.050	−0.006
	(0.050)	(0.009)
Born in Europe	−0.229	−0.028
	(0.198)	(0.039)
CIVIX	−0.046	0.001
	(0.029)	(0.005)
Constant	2.189***	0.382***
	(0.338)	(0.063)
Observations	1,039	1,039
R^2		0.015
Adjusted R^2		0.010
Log Likelihood	−575.981	
Akaike Inf. Crit.	1,165.963	
Residual Std. Error		0.438 (df = 1032)
F Statistic		2.704** (df = 6; 1032)

Note:	*p<0.1; **p<0.05; ***p<0.01

Table 20:

|	unemployed for five years	
	soc.welfare	soc.welfare.gap
	logistic	*OLS*
	Abs. Level	Gap w/ Natives
	(1)	(2)
Age	−0.007	−0.001
	(0.006)	(0.001)
Ethnicity	0.527***	0.046***
	(0.134)	(0.014)
Female	0.242*	0.026**
	(0.128)	(0.012)
Education	−0.106**	−0.017***
	(0.043)	(0.004)
Born in Europe	0.016	−0.014
	(0.180)	(0.016)
CIVIX	0.045*	0.005**
	(0.026)	(0.003)
Constant	−2.031***	0.084***
	(0.280)	(0.027)
Observations	2,533	2,533
R^2		0.019
Adjusted R^2		0.017
Log Likelihood	−880.953	
Akaike Inf. Crit.	1,775.905	
Residual Std. Error		0.312 (df = 2526)
F Statistic		8.337*** (df = 6; 2526)
Note:		*p<0.1; **p<0.05; ***p<0.01
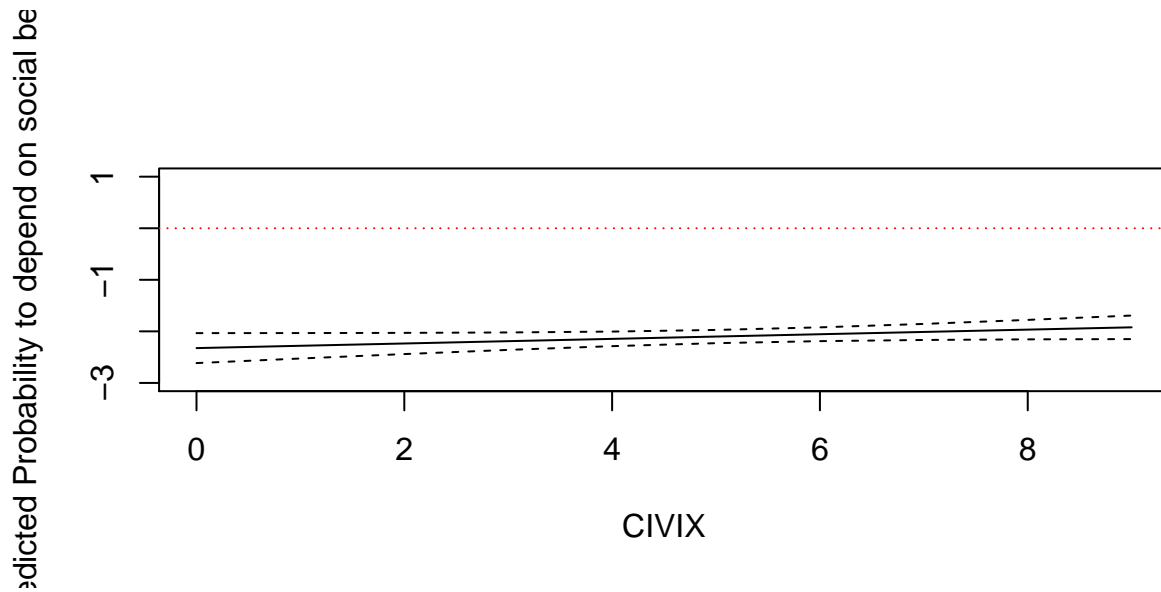
Figure 5: Depend on social benefits

```
pred.ses = soc.welfare.1 %>%
  broom::augment(newdata = ses.dat, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit)

plot(0:9, pred.ses$.fitted, type = "l",
     ylab = "Predicted Probability to depend on social benefits",
     xlab = "CIVIX" ,ylim = c(-3, 1)
     )
  lines(0:9, pred.ses$lower, lty = 2)
  lines(0:9, pred.ses$upper, lty = 2)
  abline(h = 0, lty=3, col="red")
```

```
brwmny.1 = lm(brwmny ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # absolute level
brwmny.2 = lm(brwmny.gap ~ agea + ethnic + female + edu + eubirth + civix, data = ess_ses) # gap

# stargazer(brwmny.1, brwmny.2, type = "latex", header = FALSE,
#           covariate.labels = c("Age", "Ethnicity", "Female", "Education", "Born in Europe", "CIVIX"),
#           dep.var.caption  = "Difficulty to borrow money",
#           column.labels = c("Abs. Level", "Gap w/ Natives"))
```