

# Anti-immigrant and CIVIX

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## Two-by-two table

```
summary(ess_raw$anti1)

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1.745   2.115   2.228   2.230   2.293   2.813

t1 = ess_h.tenyr %>% group_by(cntry) %>% filter(anti1 > 2.230)
table(t1$cntry) # high CIVIX high anti-immigrant sentiments

##
##  AT  FR  GR  NL
## 128 155 350 170

t1.5 = ess_h.tenyr %>% group_by(cntry) %>% filter(anti1 <= 2.230)
table(t1.5$cntry)

##
##  DE  DK  GB  IT
## 285 107 368  16

t2 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti1 > 2.230)
table(t2$cntry) # low CIVIX high anti-immigrant sentiments

##
##  FI  LU  PT
##   88 278 242

t3 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti1 <= 2.230)
table(t3$cntry) # low CIVIX low anti-immigrant sentiments

##
##  BE  ES  IE  SE
## 216 530 690 177
```

## Interactions

### Political Interests

```
summary(ess_tenyr$polintr) # political interests
```

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.      NA's
##      1.000   2.000   3.000   2.777   4.000   4.000        25
```

```
summary(ess_tenyr$poli.gap) # gap with native citizens
```

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.      NA's
##     -2.0314 -0.5194  0.2885   0.1875   1.0166   1.6829        25
```

```
##
```

```
## Call:
```

```
## lm(formula = polintr ~ agea + ethnic + female + edu + eubirth +
##      citizen + civix.d * anti1, data = ess_tenyr)
```

```
##
```

```
## Residuals:
```

```
##      Min       1Q   Median       3Q      Max
##     -2.3542 -0.6139  0.0004   0.7160  2.0532
```

```
##
```

```
## Coefficients:
```

```
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   3.351414   0.303194   11.054 < 2e-16 ***
## agea          -0.008771   0.001541   -5.691 1.40e-08 ***
## ethnic         0.058932   0.039753    1.482  0.1383
## female        0.180686   0.034601    5.222 1.90e-07 ***
## edu           -0.178749   0.011851  -15.083 < 2e-16 ***
## eubirth       -0.109506   0.043643   -2.509  0.0122 *
## citizen       -0.086737   0.041509   -2.090  0.0367 *
## civix.d       -3.509722   0.552743   -6.350 2.51e-10 ***
## anti1         0.136018   0.138943    0.979  0.3277
## civix.d:anti1  1.473913   0.246523    5.979 2.54e-09 ***
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
```

```
## Residual standard error: 0.9051 on 2766 degrees of freedom
```

```
## (2336 observations deleted due to missingness)
```

```
## Multiple R-squared:  0.139, Adjusted R-squared:  0.1362
```

```
## F-statistic: 49.62 on 9 and 2766 DF, p-value: < 2.2e-16
```

```
##
```

```
## Call:
```

```
## lm(formula = poli.gap ~ agea + ethnic + female + edu + eubirth +
##      citizen + civix.d * anti1, data = ess_tenyr)
```

```
##
```

```
## Residuals:
```

```
##      Min       1Q   Median       3Q      Max
##     -2.54699 -0.59625 -0.01503  0.69041  2.11359
```

```
##
```

```
## Coefficients:
```

```
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.136861   0.301126    3.775 0.000163 ***
## agea          -0.008942   0.001531   -5.841 5.79e-09 ***
## ethnic         0.080930   0.039482    2.050 0.040479 *
## female        0.180771   0.034365    5.260 1.55e-07 ***
## edu           -0.166053   0.011770  -14.108 < 2e-16 ***
## eubirth       -0.056800   0.043345   -1.310 0.190171
## citizen       -0.067151   0.041226   -1.629 0.103461
## civix.d       -0.714869   0.548974   -1.302 0.192959
```

```
## anti1          -0.113152   0.137996  -0.820 0.412304
## civix.d:anti1  0.317662   0.244842   1.297 0.194596
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.899 on 2766 degrees of freedom
## (2336 observations deleted due to missingness)
## Multiple R-squared:  0.1017, Adjusted R-squared:  0.09878
## F-statistic: 34.79 on 9 and 2766 DF,  p-value: < 2.2e-16
```

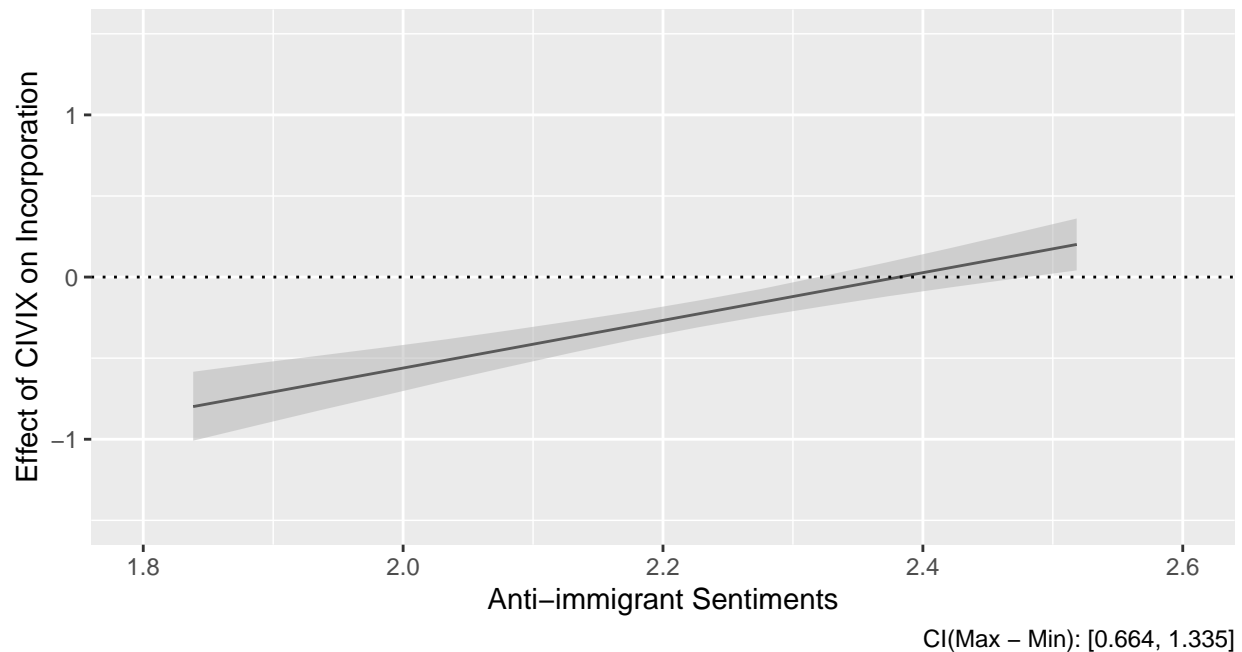


Figure 1: Effect of CIVIX conditional on Anti-immigrant Sentiments: Interests in Politics (Abs. Level)

```
library(broom)

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

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

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

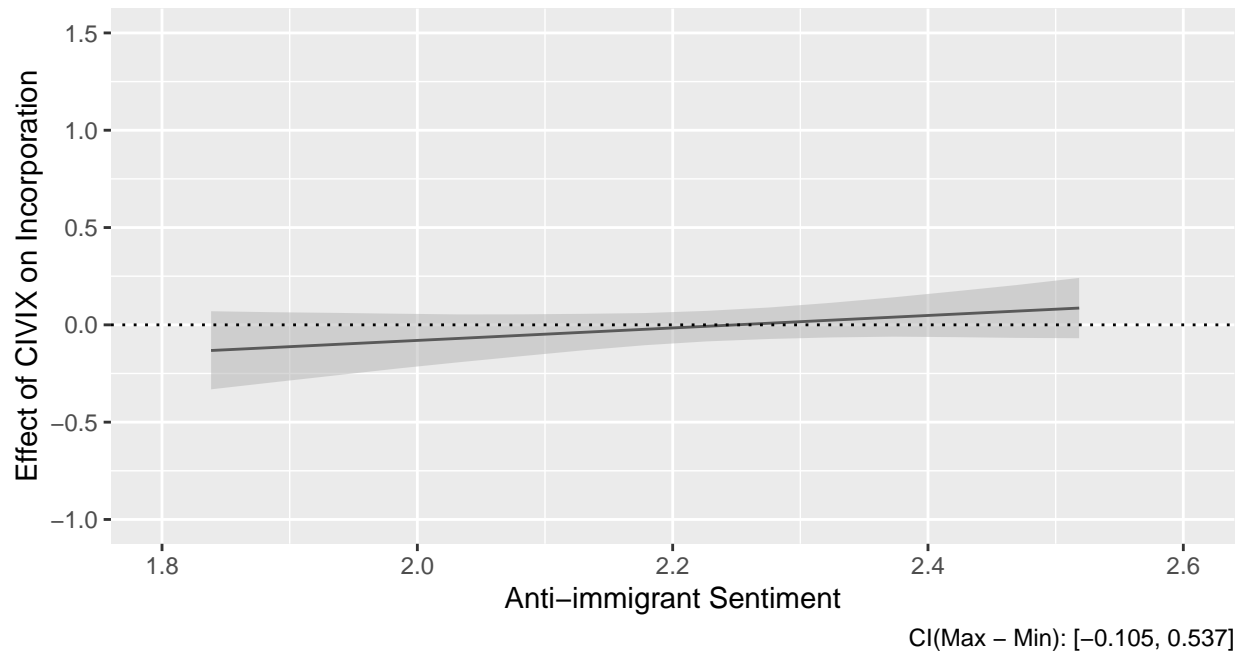


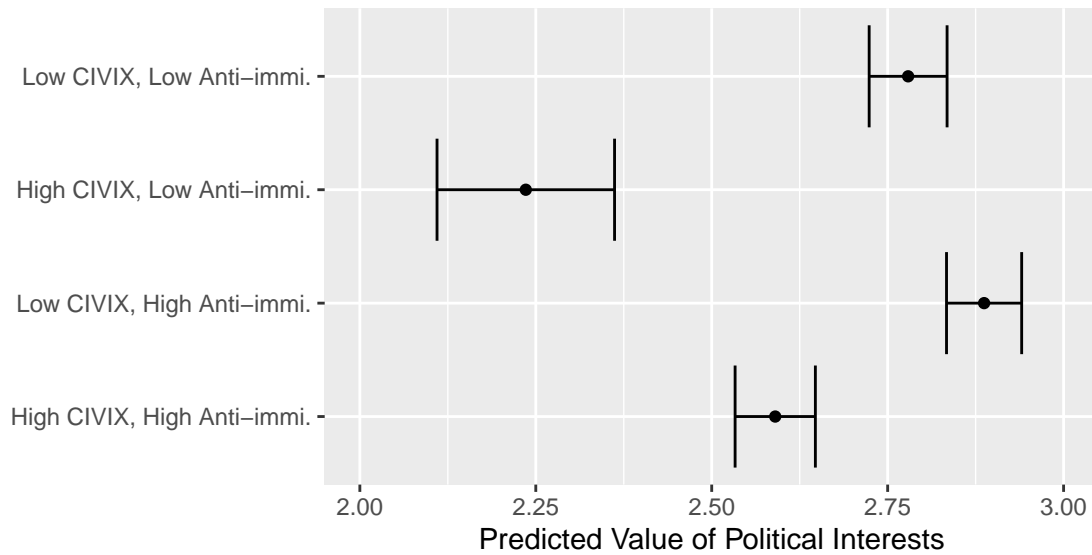
Figure 2: Effect of CIVIX conditional on Anti-immigrant Sentiments: Interests in Politics (Gap w/Natives)

```
dplyr::select(.fitted, upper, lower, group)

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

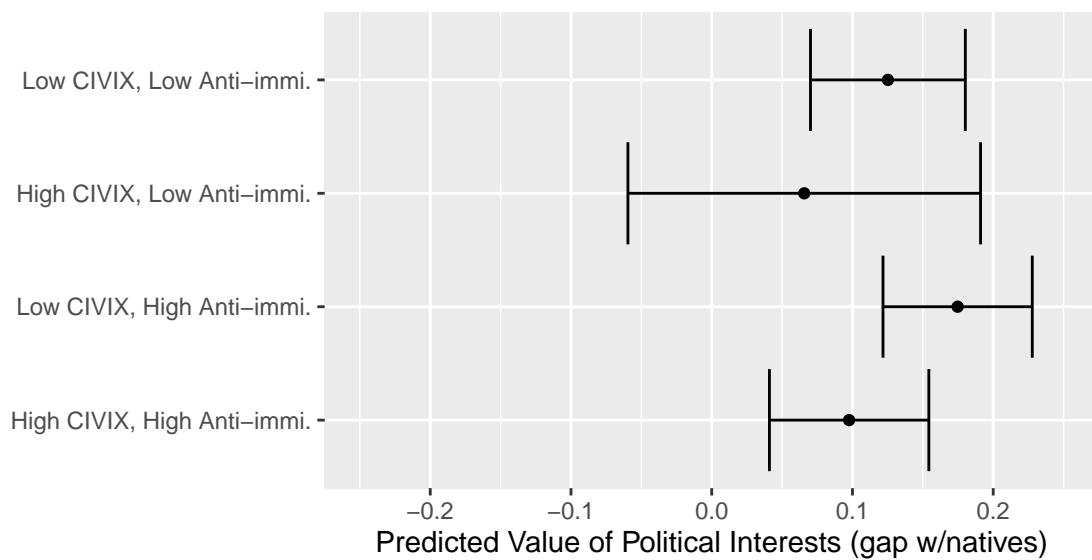
pred.1 = rbind(pred.hh.1, pred.hl.1, pred.lh.1, pred.ll.1)
pred.1 = pred.1 %>% mutate(group = c('High CIVIX, High Anti-immi.', 'High CIVIX, Low Anti-immi.', 'Low C
pred.1 = pred.1 %>% mutate(group = factor(group, levels = c('High CIVIX, High Anti-immi.', 'Low CIVIX, H

ggplot(data = pred.1) +
  geom_errorbarh(aes(y = group, xmax = upper, xmin = lower)) +
  geom_point(aes(y = group, x = .fitted)) +
  xlim(2,3)+
  xlab("Predicted Value of Political Interests") +
  ylab("")
```



```
ggsave("pred.polintr.1.jpeg")
```

```
## Saving 6 x 3 in image
```



```
## Saving 6 x 3 in image
```

## Politics as Complicated

```
summary(ess_tenyr$polcmpl) # absolute level
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.      NA's
##      1.000   2.000   3.000   3.217   4.000   5.000   1278
```

```
summary(ess_tenyr$polcmpl.gap) # gap w/natives
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.      NA's
## -2.5385 -0.8931 -0.0183  0.1163  0.9817  2.1278   1278
```

```
##
```

```

## Call:
## lm(formula = polcmpl ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
## <Labelled double>: Politics too complicated to understand
##      Min       1Q   Median       3Q      Max
## -2.99501 -0.77775 -0.07347  0.90112  2.54846
##
## Labels:
##  value      label
##    1      Never
##    2     Seldom
##    3 Occasionally
##    4    Regularly
##    5   Frequently
## NA(b)    Refusal
## NA(c)   Don't know
## NA(d)    No answer
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   4.167697   0.389014  10.713 < 2e-16 ***
## agea         -0.004589   0.001975  -2.324 0.020220 *
## ethnic        0.203903   0.051271   3.977 7.17e-05 ***
## female        0.353034   0.044304   7.968 2.36e-15 ***
## edu          -0.187768   0.015429 -12.170 < 2e-16 ***
## eubirth       -0.224765   0.055492  -4.050 5.26e-05 ***
## citizen      -0.017574   0.052867  -0.332 0.739598
## civix.d      -2.682822   0.710817  -3.774 0.000164 ***
## anti1        -0.154095   0.177924  -0.866 0.386530
## civix.d:anti1  1.181250   0.317100   3.725 0.000199 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.14 on 2673 degrees of freedom
## (2429 observations deleted due to missingness)
## Multiple R-squared:  0.1093, Adjusted R-squared:  0.1063
## F-statistic: 36.46 on 9 and 2673 DF, p-value: < 2.2e-16
##
## Call:
## lm(formula = polcmpl.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.11924 -0.79431 -0.05813  0.89975  2.61607
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.148140   0.390454   2.941 0.00330 **
## agea         -0.004892   0.001982  -2.468 0.01364 *
## ethnic        0.210370   0.051461   4.088 4.48e-05 ***

```

```

## female      0.343061  0.044468   7.715 1.70e-14 ***
## edu         -0.180616  0.015486 -11.663 < 2e-16 ***
## eubirth     -0.174615  0.055697  -3.135 0.00174 **
## citizen     -0.026910  0.053063  -0.507 0.61211
## civix.d     -1.277479  0.713450  -1.791 0.07348 .
## anti1       -0.199799  0.178583  -1.119 0.26332
## civix.d:anti1 0.531964  0.318274   1.671 0.09476 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.144 on 2673 degrees of freedom
## (2429 observations deleted due to missingness)
## Multiple R-squared:  0.09322,    Adjusted R-squared:  0.09017
## F-statistic: 30.53 on 9 and 2673 DF,  p-value: < 2.2e-16

```

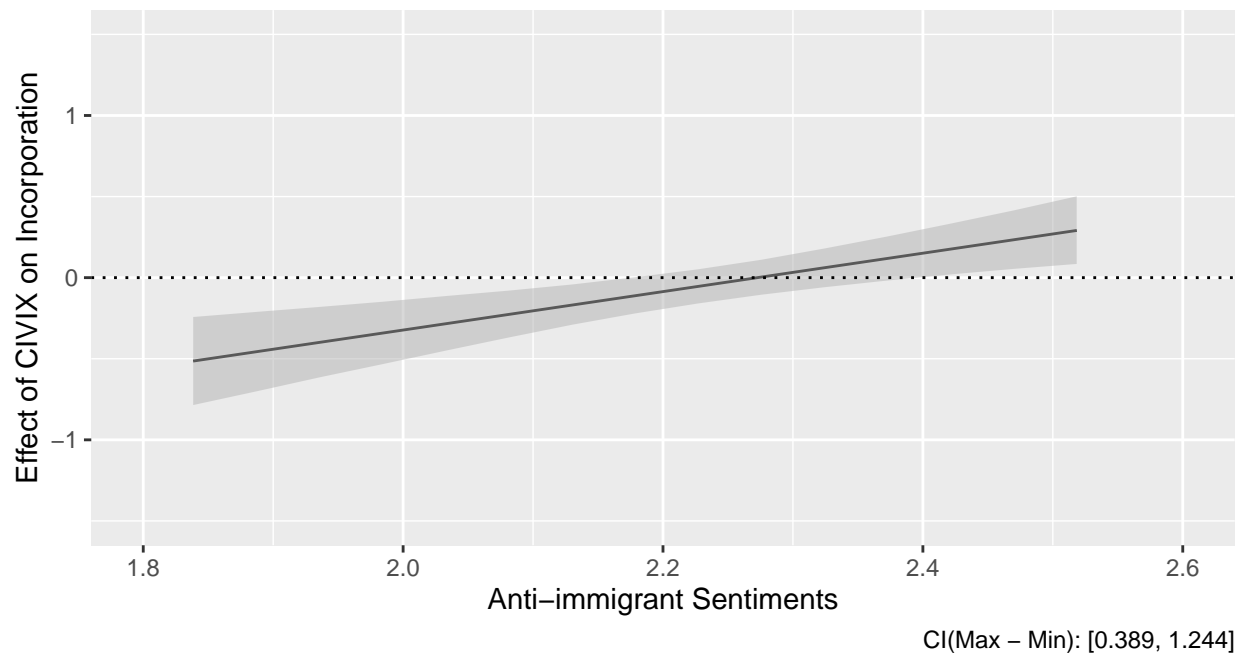


Figure 3: Effect of CIVIX conditional on Anti-immigrant Sentiments: Politics as Complicated (Abs. Level)

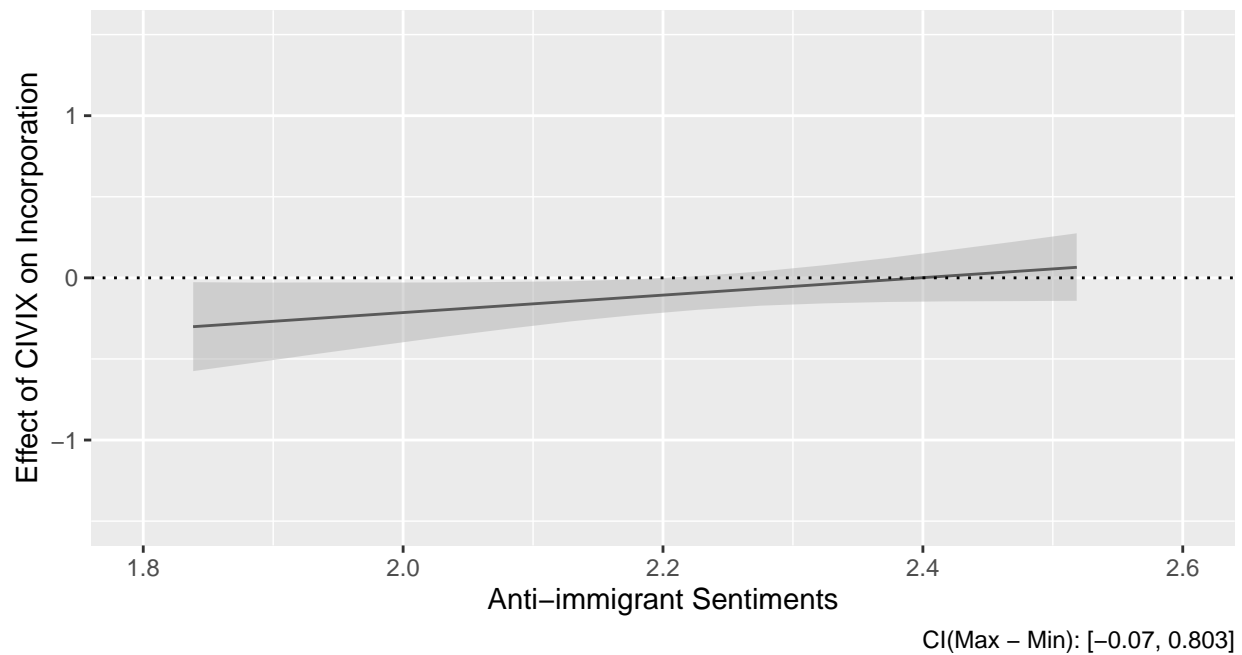
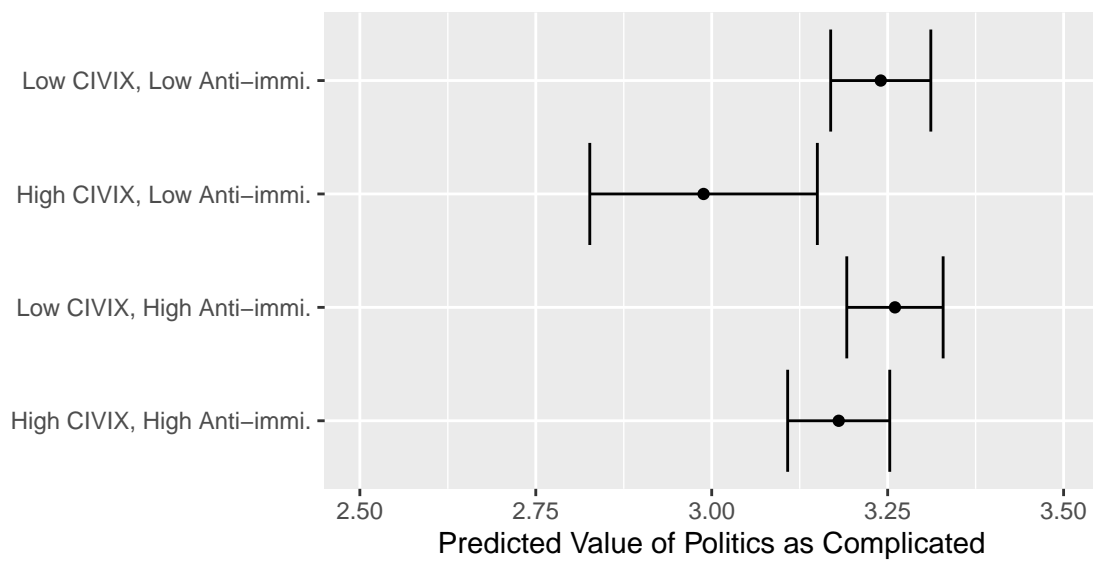
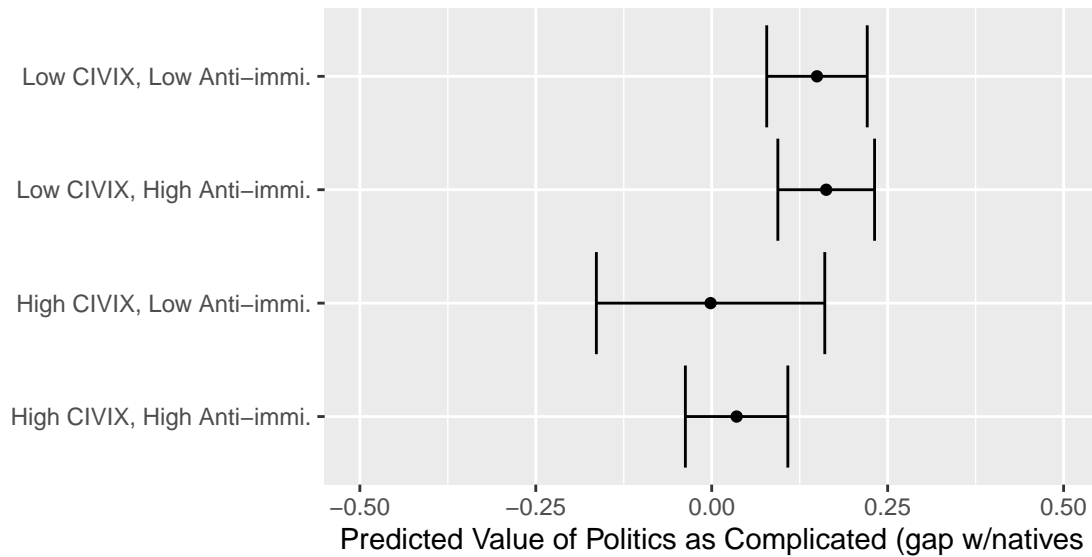


Figure 4: Effect of CIVIX conditional on Anti-immigrant Sentiments: Politics as Complicated (Gap w/Natives)



## Saving 6 x 3 in image





```
## Saving 6 x 3 in image
```

## Difficulty in making political decisions

```
summary(ess_tenyr$poldcs) # absolute level
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.     NA's
##      1.000   3.000   3.000   3.258   4.000   5.000   1291
```

```
summary(ess_tenyr$poldcs.gap)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.     NA's
##     -2.5302 -0.5302  0.0595  0.1824  0.9531  2.3333   1291
```

```
##
```

```
## Call:
```

```
## lm(formula = poldcs ~ agea + ethnic + female + edu + eubirth +
##      citizen + civix.d * anti1, data = ess_tenyr)
```

```
##
```

```
## Residuals:
```

```
##      Min       1Q   Median       3Q      Max
##     -3.04326 -0.70539  0.03178  0.73437  2.48159
```

```
##
```

```
## Coefficients:
```

```
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   3.106346   0.345708   8.985 < 2e-16 ***
## agea          -0.005143   0.001747  -2.944  0.00327 **
## ethnic         0.098463   0.045295   2.174  0.02981 *
## female         0.268092   0.039282   6.825 1.09e-11 ***
## edu           -0.186884   0.013707 -13.634 < 2e-16 ***
## eubirth        -0.281419   0.049344  -5.703 1.31e-08 ***
## citizen       -0.075401   0.046949  -1.606  0.10839
## civix.d         0.653695   0.628026   1.041  0.29803
## anti1          0.446678   0.158276   2.822  0.00481 **
## civix.d:anti1 -0.377149   0.280235  -1.346  0.17847
```

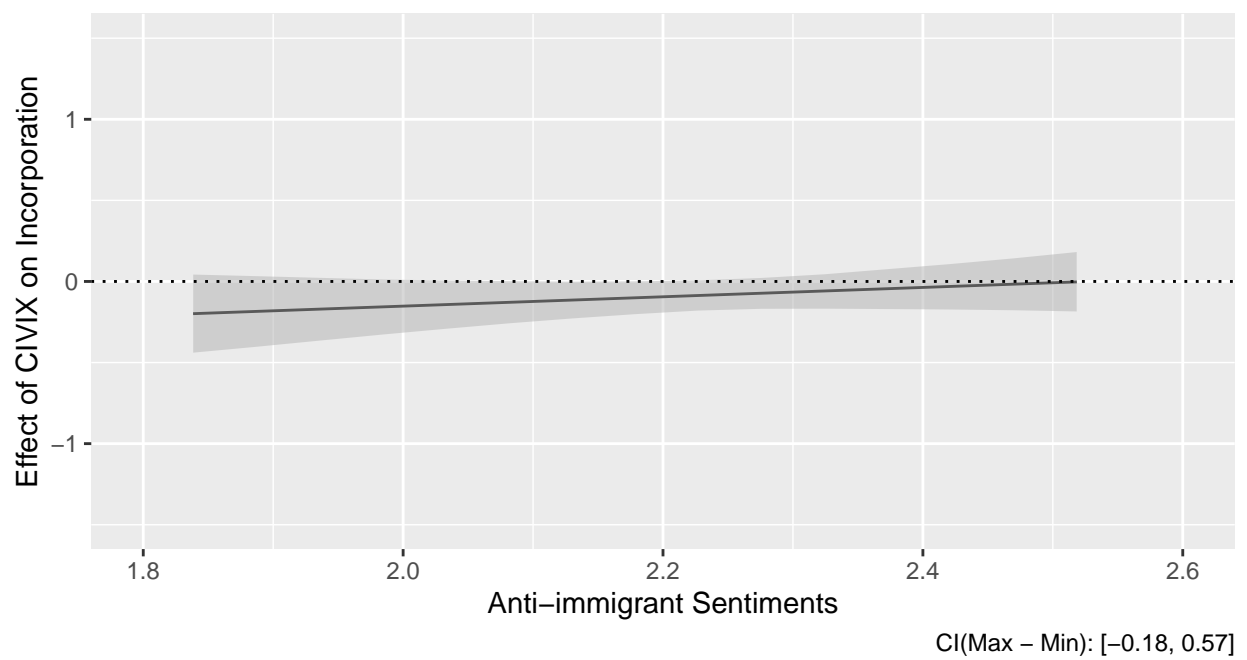
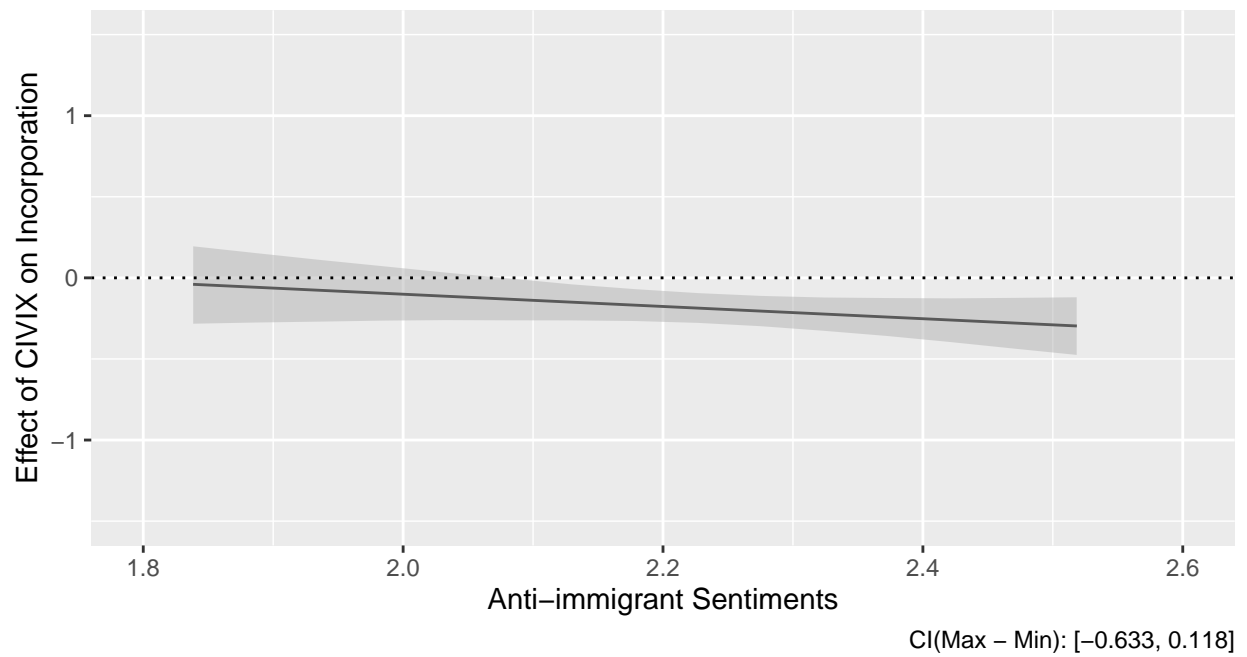
```
## ---
```

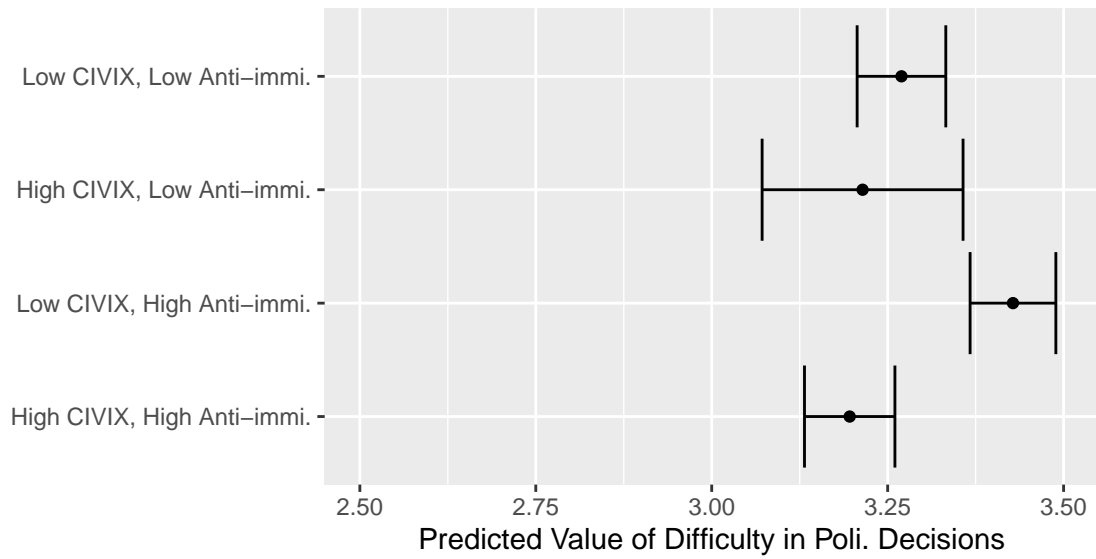
```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.008 on 2660 degrees of freedom
## (2442 observations deleted due to missingness)
## Multiple R-squared:  0.1167, Adjusted R-squared:  0.1137
## F-statistic: 39.05 on 9 and 2660 DF,  p-value: < 2.2e-16

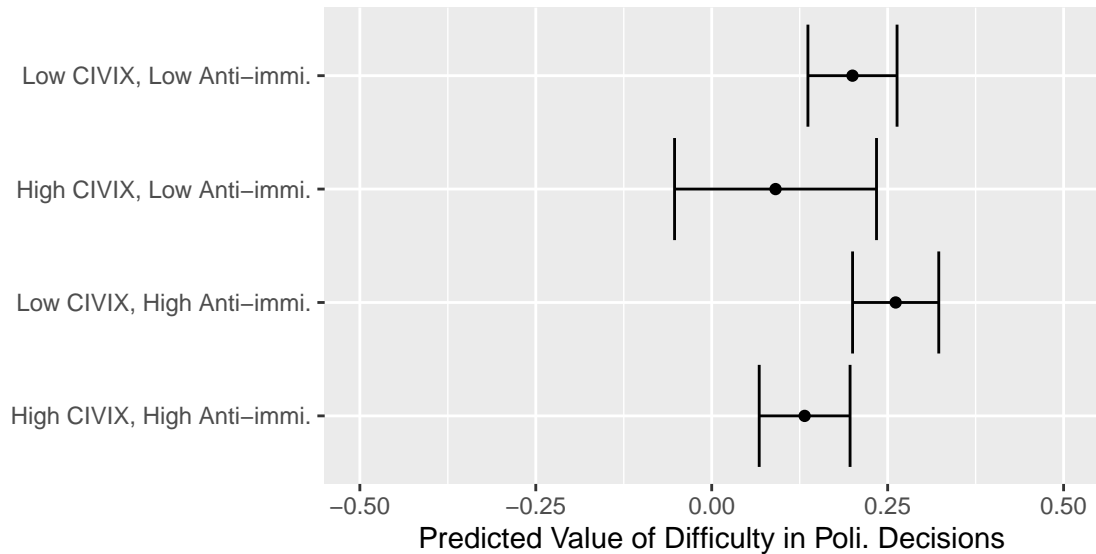
##
## Call:
## lm(formula = poldcs.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_teny)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.1938 -0.6838  0.0294  0.7201  2.4805
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.812312   0.347482   2.338  0.01948 *
## agea          -0.004778   0.001756  -2.721  0.00655 **
## ethnic         0.110954   0.045528   2.437  0.01487 *
## female         0.263074   0.039483   6.663 3.25e-11 ***
## edu           -0.177740   0.013777 -12.901 < 2e-16 ***
## eubirth        -0.267064   0.049597  -5.385 7.89e-08 ***
## citizen        -0.085354   0.047190  -1.809  0.07061 .
## civix.d        -0.729072   0.631249  -1.155  0.24821
## anti1          0.035988   0.159088   0.226  0.82105
## civix.d:anti1  0.288092   0.281673   1.023  0.30650
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.013 on 2660 degrees of freedom
## (2442 observations deleted due to missingness)
## Multiple R-squared:  0.1068, Adjusted R-squared:  0.1038
## F-statistic: 35.36 on 9 and 2660 DF,  p-value: < 2.2e-16

```





## Saving 6 x 3 in image



## Saving 6 x 3 in image

## Employment status

```
summary(ess_tenyr$employ)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  1.0000  1.0000  0.9098  1.0000  1.0000
```

```
summary(ess_tenyr$employ.gap)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## -0.98621  0.03096  0.05172 -0.02994  0.08309  0.10860
```

```
##
```

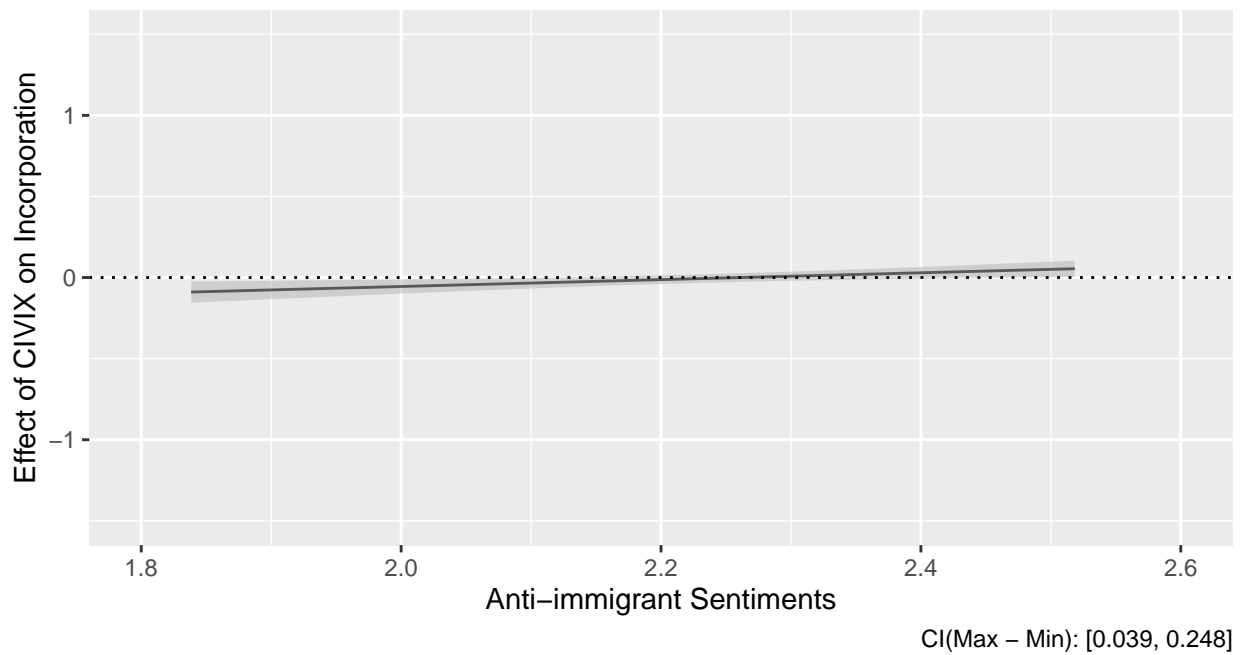
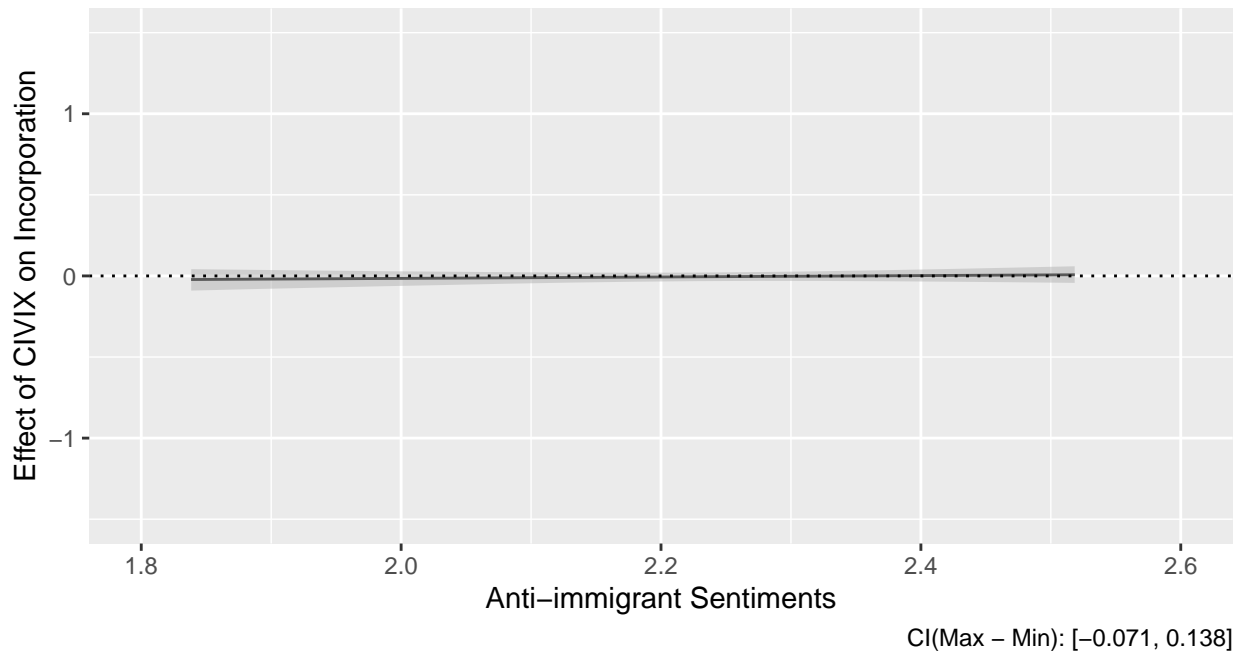
```
## Call:
```

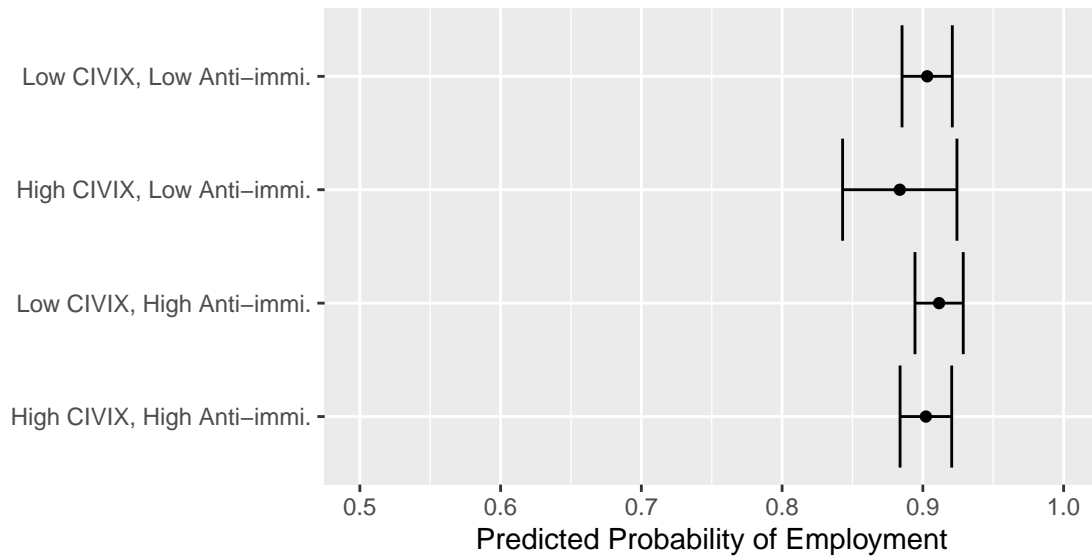
```

## lm(formula = employ ~ agea + ethnic + female + edu + eubirth +
##   citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.94448  0.07417  0.09577  0.10482  0.13199
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.8358217   0.0975451   8.569  <2e-16 ***
## agea          0.0002027   0.0004960   0.409   0.6828
## ethnic        0.0017392   0.0127904   0.136   0.8918
## female        0.0083786   0.0111380   0.752   0.4520
## edu           0.0018815   0.0038104   0.494   0.6215
## eubirth       0.0283556   0.0140560   2.017   0.0438 *
## citizen       -0.0079295   0.0133650  -0.593   0.5530
## civix.d       -0.0985625   0.1779378  -0.554   0.5797
## anti1         0.0220244   0.0446840   0.493   0.6221
## civix.d:anti1  0.0417044   0.0793456   0.526   0.5992
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2919 on 2777 degrees of freedom
## (2325 observations deleted due to missingness)
## Multiple R-squared:  0.003032, Adjusted R-squared: -0.0001993
## F-statistic: 0.9383 on 9 and 2777 DF, p-value: 0.4902
##
## Call:
## lm(formula = employ.gap ~ agea + ethnic + female + edu + eubirth +
##   citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.98430  0.06692  0.09162  0.10907  0.15571
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.1712604   0.0974197   1.758  0.07886 .
## agea          0.0002882   0.0004954   0.582  0.56076
## ethnic        0.0010113   0.0127740   0.079  0.93690
## female        0.0090933   0.0111237   0.817  0.41373
## edu           0.0013797   0.0038055   0.363  0.71697
## eubirth       0.0186137   0.0140379   1.326  0.18496
## citizen       -0.0092840   0.0133478  -0.696  0.48677
## civix.d       -0.4779313   0.1777091  -2.689  0.00720 **
## anti1         -0.1019547   0.0446265  -2.285  0.02241 *
## civix.d:anti1  0.2113625   0.0792435   2.667  0.00769 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2915 on 2777 degrees of freedom
## (2325 observations deleted due to missingness)
## Multiple R-squared:  0.004409, Adjusted R-squared:  0.001182

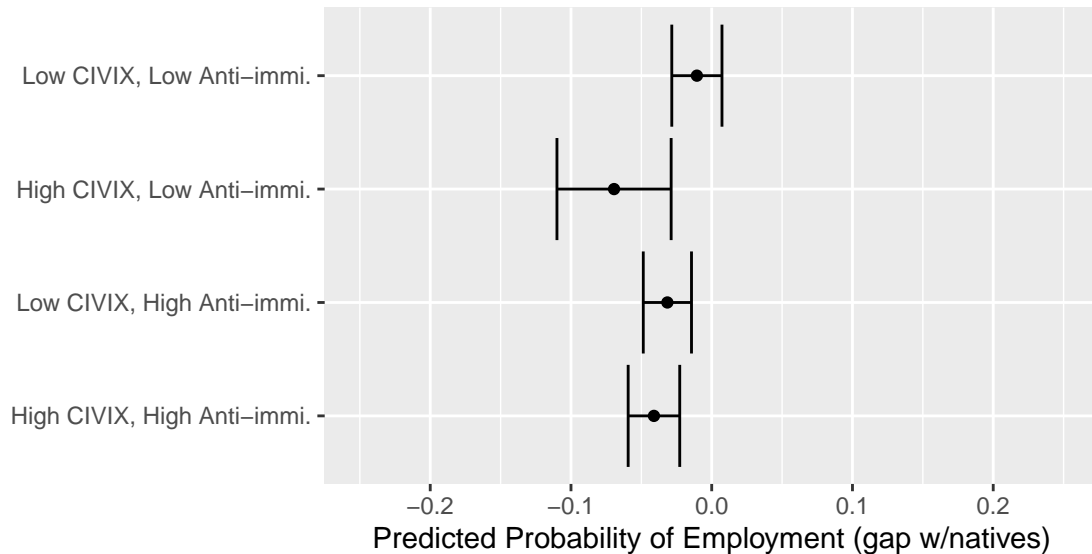
```

## F-statistic: 1.366 on 9 and 2777 DF, p-value: 0.1977





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## Saving 6 x 3 in image

## Subjective financial status

```
summary(ess_tenyr$hincfel)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##      1.000  2.000  2.000  2.202  3.000  4.000   120
```

```
summary(ess_tenyr$hincfel.gap)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -2.34211 -0.65651  0.07872  0.14518  0.90367  2.43568   120
```

```
##
```

```
## Call:
```

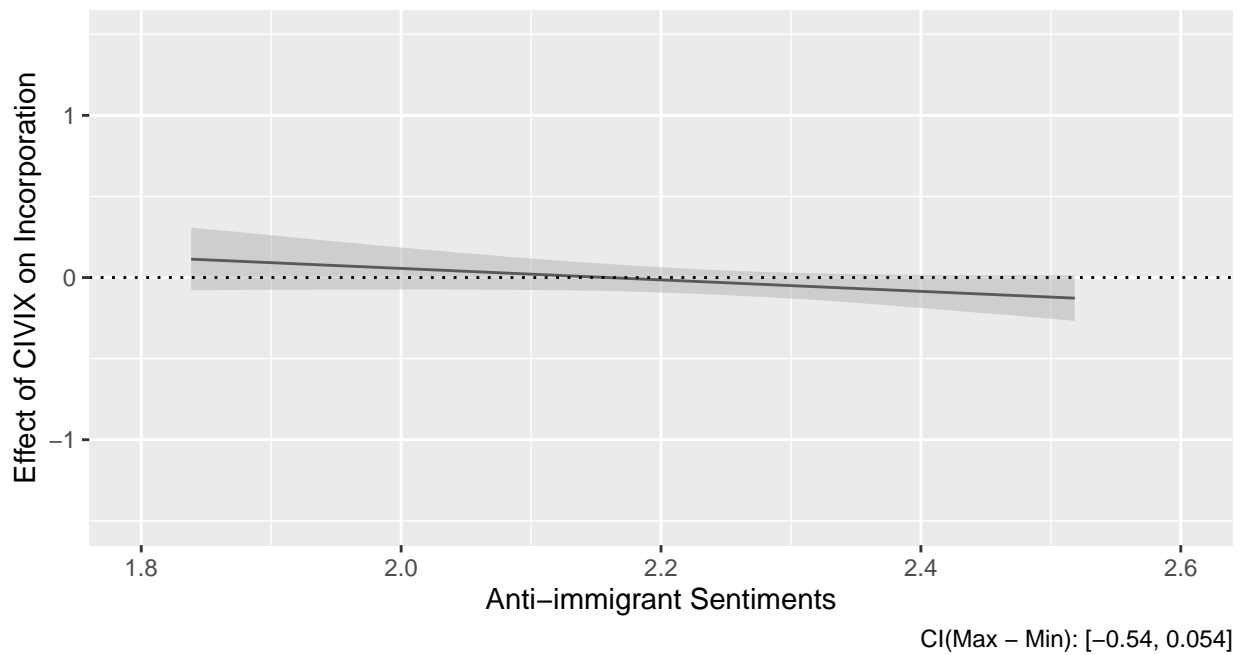
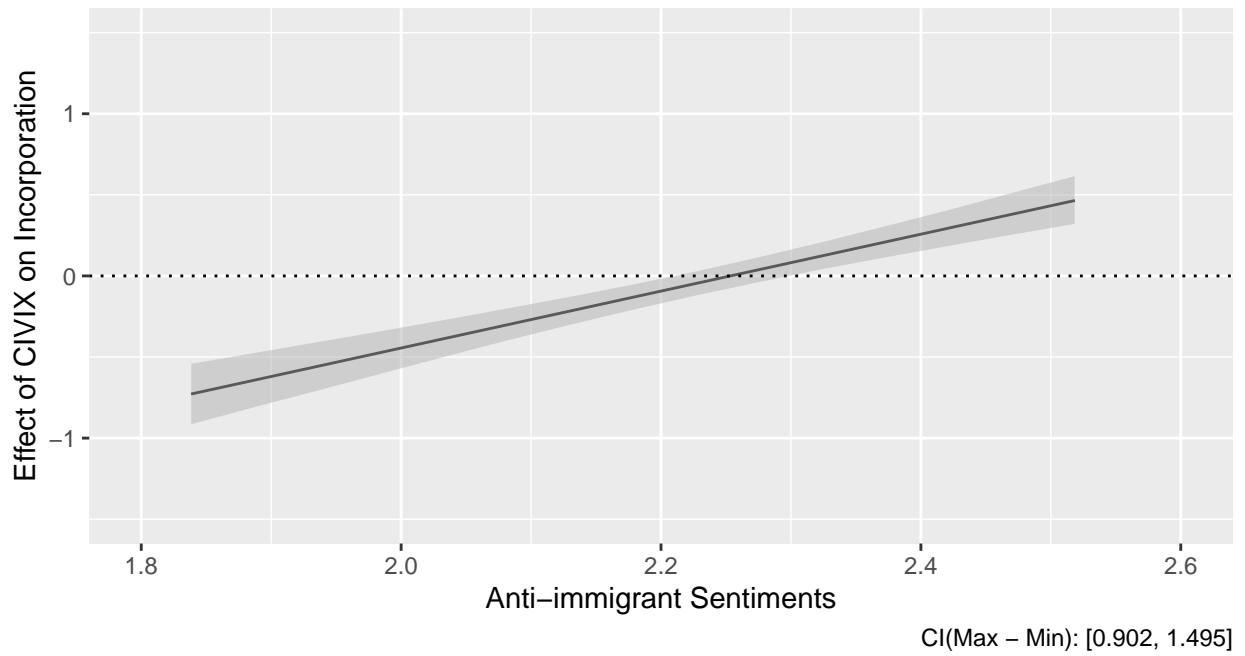
```

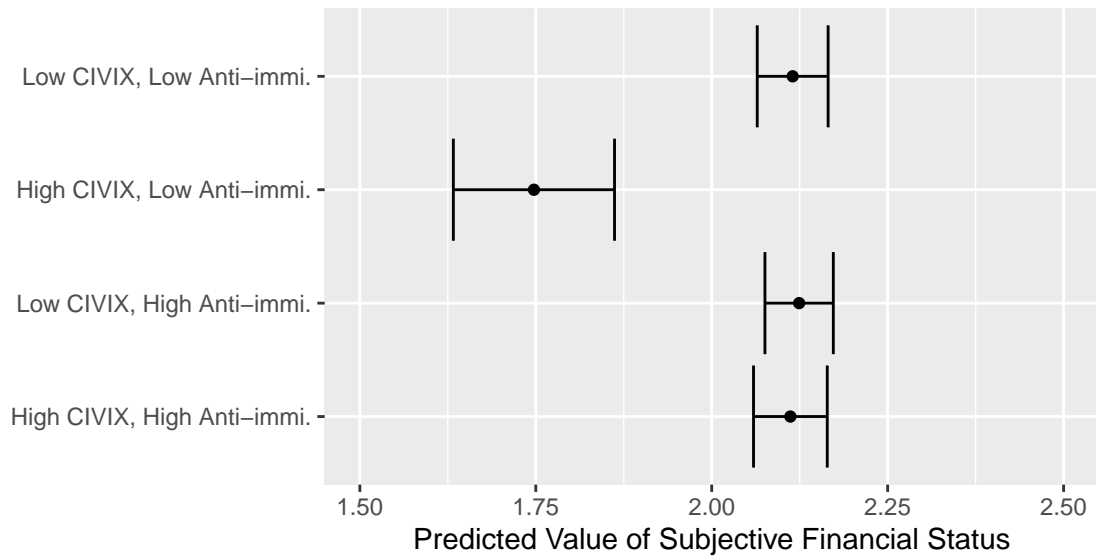
## lm(formula = hincfel ~ agea + ethnic + female + edu + eubirth +
##   citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.04750 -0.57527 -0.08774  0.56305  2.52745
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.352990   0.276028   8.524 < 2e-16 ***
## agea          0.002580   0.001417   1.821  0.0688 .
## ethnic        0.226028   0.036411   6.208 6.20e-10 ***
## female        0.013362   0.031646   0.422  0.6729
## edu          -0.139462   0.010846 -12.859 < 2e-16 ***
## eubirth       -0.380721   0.039956  -9.528 < 2e-16 ***
## citizen       0.005188   0.038147   0.136  0.8918
## civix.d      -3.949437   0.501660  -7.873 4.98e-15 ***
## anti1         0.084767   0.126409   0.671  0.5025
## civix.d:anti1  1.752596   0.223785   7.832 6.86e-15 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8186 on 2703 degrees of freedom
## (2399 observations deleted due to missingness)
## Multiple R-squared:  0.1735, Adjusted R-squared:  0.1707
## F-statistic: 63.04 on 9 and 2703 DF,  p-value: < 2.2e-16
##
## Call:
## lm(formula = hincfel.gap ~ agea + ethnic + female + edu + eubirth +
##   citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.09689 -0.58889 -0.06794  0.50447  2.52671
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.314506   0.276421   1.138  0.2553
## agea          0.002403   0.001419   1.693  0.0905 .
## ethnic        0.249169   0.036462   6.834 1.02e-11 ***
## female        0.010613   0.031691   0.335  0.7377
## edu          -0.129147   0.010861 -11.891 < 2e-16 ***
## eubirth       -0.263569   0.040013  -6.587 5.37e-11 ***
## citizen      -0.026651   0.038201  -0.698  0.4855
## civix.d       0.772592   0.502374   1.538  0.1242
## anti1         0.078630   0.126589   0.621  0.5346
## civix.d:anti1 -0.357570   0.224103  -1.596  0.1107
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8198 on 2703 degrees of freedom
## (2399 observations deleted due to missingness)
## Multiple R-squared:  0.1033, Adjusted R-squared:  0.1003

```

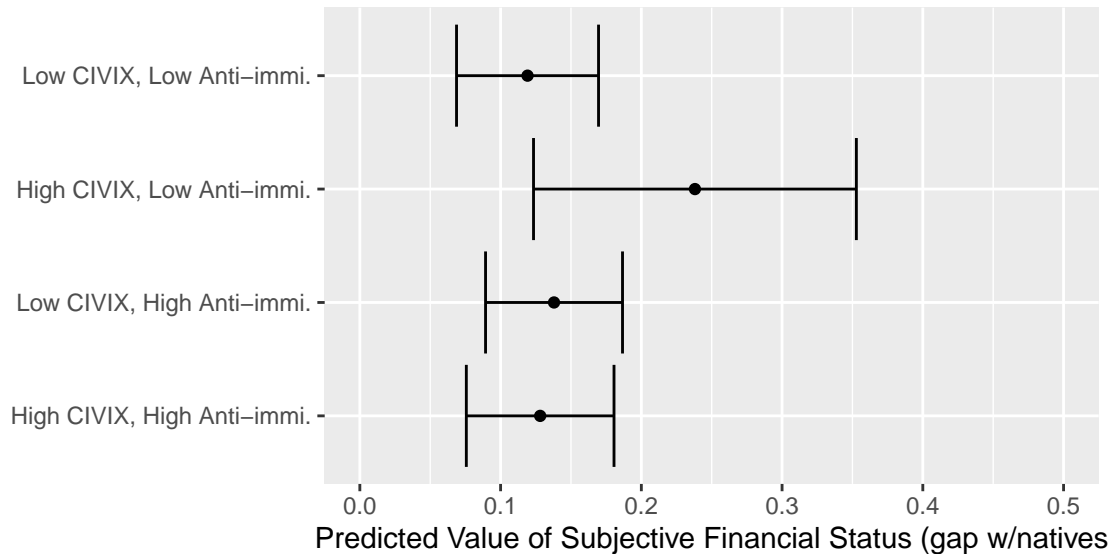


## F-statistic: 34.61 on 9 and 2703 DF, p-value: < 2.2e-16





## Saving 6 x 3 in image



## Saving 6 x 3 in image

## Income level

```
summary(ess_tenyr$hinctnt)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## 0.8333  3.0000  5.0000  4.9889  7.0000 10.0000  1407
```

```
summary(ess_tenyr$hinctnt.gap)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -5.8511 -2.0102 -0.4969 -0.3709  1.2333  6.0104  1407
```

```
##
```

```
## Call:
```

```

## lm(formula = hinctnt ~ agea + ethnic + female + edu + eubirth +
##   citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
## <Labelled double>: Household's total net income, all sources
##   Min      1Q  Median      3Q      Max
## -5.3703 -1.3666 -0.1447  1.3382  5.9948
##
## Labels:
##   value      label
##     1         J
##     2         R
##     3         C
##     4         M
##     5         F
##     6         S
##     7         K
##     8         P
##     9         D
##    10         H
##    11         U
##    12         N
## NA(b)      Refusal
## NA(c) Don't know
## NA(d) No answer
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -0.130298   0.799734  -0.163  0.87059
## agea          0.008400   0.004209   1.996  0.04612 *
## ethnic       -0.281353   0.104137  -2.702  0.00696 **
## female       -0.170677   0.091443  -1.866  0.06212 .
## edu           0.377324   0.031365  12.030 < 2e-16 ***
## eubirth       0.813813   0.115681   7.035 2.72e-12 ***
## citizen       0.111267   0.110671   1.005  0.31483
## civix.d      10.657007   1.457375   7.312 3.77e-13 ***
## anti1         1.745880   0.367064   4.756 2.11e-06 ***
## civix.d:anti1 -4.894436   0.650890  -7.520 8.24e-14 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.039 on 2004 degrees of freedom
## (3098 observations deleted due to missingness)
## Multiple R-squared:  0.1617, Adjusted R-squared:  0.1579
## F-statistic: 42.95 on 9 and 2004 DF, p-value: < 2.2e-16
##
## Call:
## lm(formula = hinctnt.gap ~ agea + ethnic + female + edu + eubirth +
##   citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##   Min      1Q  Median      3Q      Max
## -5.303 -1.287 -0.157  1.294  6.345

```

```
##
## Coefficients:
##           Estimate Std. Error t value Pr(>|t|)
## (Intercept) -1.971847   0.783795  -2.516  0.01195 *
## agea         0.008627   0.004125   2.091  0.03664 *
## ethnic      -0.329409   0.102062  -3.228  0.00127 **
## female      -0.176812   0.089621  -1.973  0.04865 *
## edu          0.366884   0.030740  11.935 < 2e-16 ***
## eubirth      0.609186   0.113375   5.373 8.64e-08 ***
## citizen      0.149699   0.108466   1.380  0.16769
## civix.d      0.343255   1.428330   0.240  0.81011
## anti1        0.051065   0.359749   0.142  0.88714
## civix.d:anti1 -0.080838   0.637918  -0.127  0.89917
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.998 on 2004 degrees of freedom
## (3098 observations deleted due to missingness)
## Multiple R-squared:  0.1081, Adjusted R-squared:  0.1041
## F-statistic: 26.98 on 9 and 2004 DF,  p-value: < 2.2e-16
```

