

# Anti-immigrant and CIVIX

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1/24/2020

## Two-by-two table

```
t1 = ess_h.tenyr %>% group_by(cntry) %>% filter(anti1 > 2)
table(t1$cntry) # high CIVIX high anti-immigrant sentiments
```

```
##
## AT DE DK FR GB GR NL
## 128 285 107 155 368 350 170
```

```
t2 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti1 > 2)
table(t2$cntry) # low CIVIX high anti-immigrant sentiments
```

```
##
## BE FI IE IT LU PT
## 216 88 690 16 278 242
```

```
t3 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti1 < 2)
table(t3$cntry) # low CIVIX low anti-immigrant sentiments
```

```
##
## ES SE
## 530 177
```

```
t4 = ess_h.tenyr %>% group_by(cntry) %>% filter(anti3 > 5)
table(t4$cntry)
```

```
##
## AT DE DK FR GB GR NL
## 128 285 107 155 368 350 170
```

```
t5 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti3 > 5)
table(t5$cntry)
```

```
##
## BE FI IE IT LU PT
## 216 88 690 16 278 242
```

```
t6 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti3 < 5)
table(t6$cntry)
```

```
##
## ES SE
## 530 177
```

# 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
```

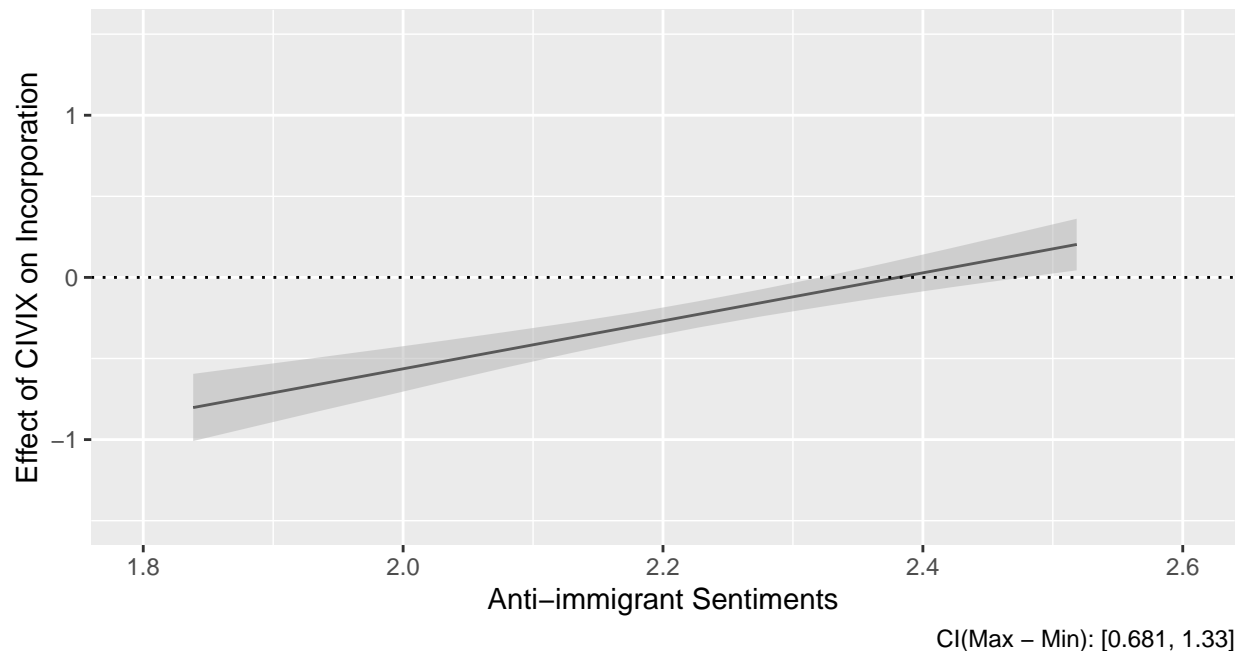


Figure 1: Effect of CIVIX conditional on Anti-immigrant Sentiments: Interests in Politics (Abs. Level)

## 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
```

```
##
```

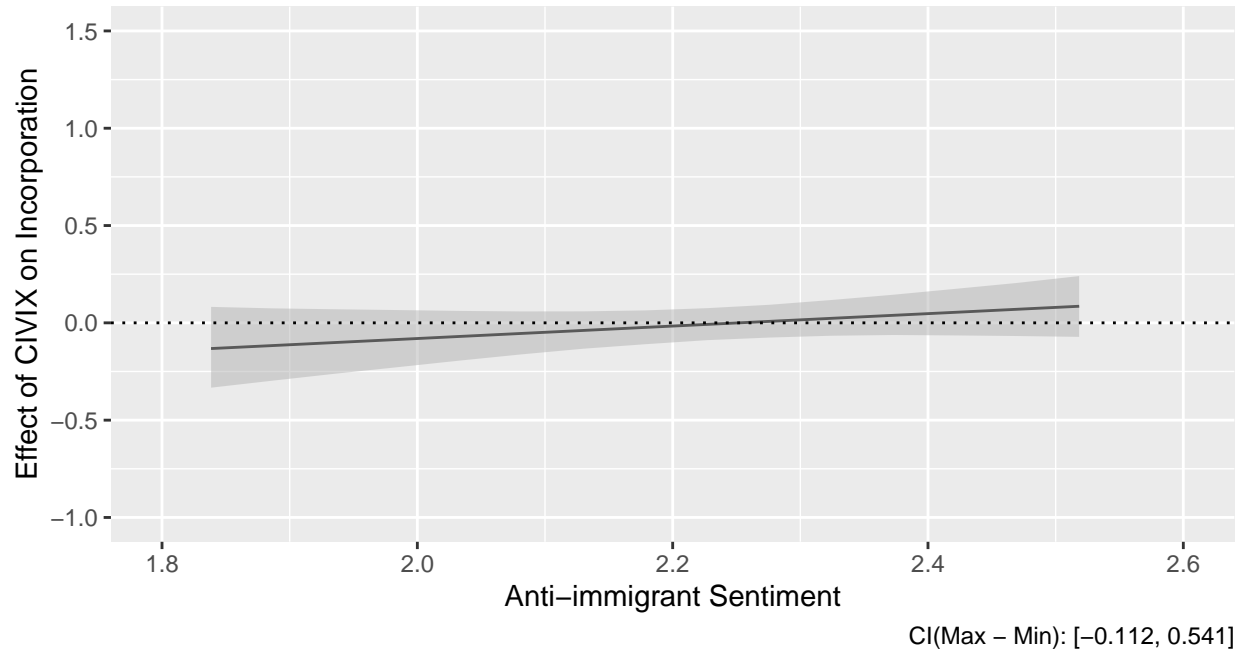


Figure 2: Effect of CIVIX conditional on Anti-immigrant Sentiments: Interests in Politics (Gap w/Natives)

```
## 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
```

## 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 +
```

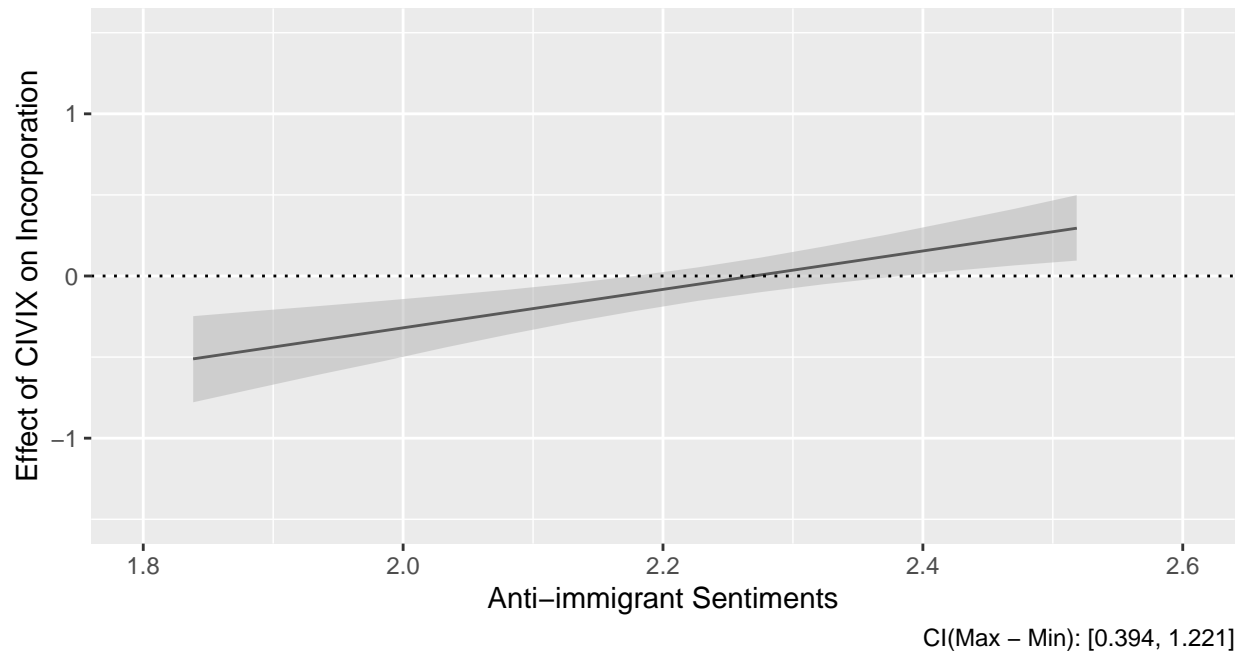


Figure 3: Effect of CIVIX conditional on Anti-immigrant Sentiments: Politics as Complicated (Abs. Level)

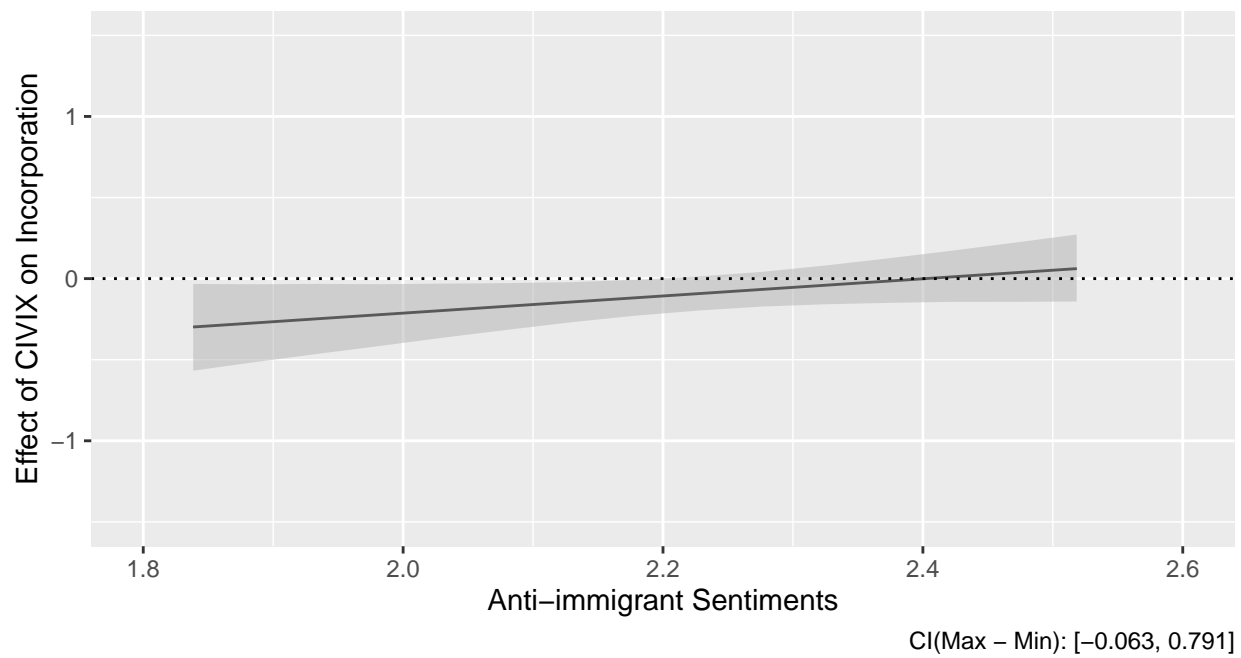
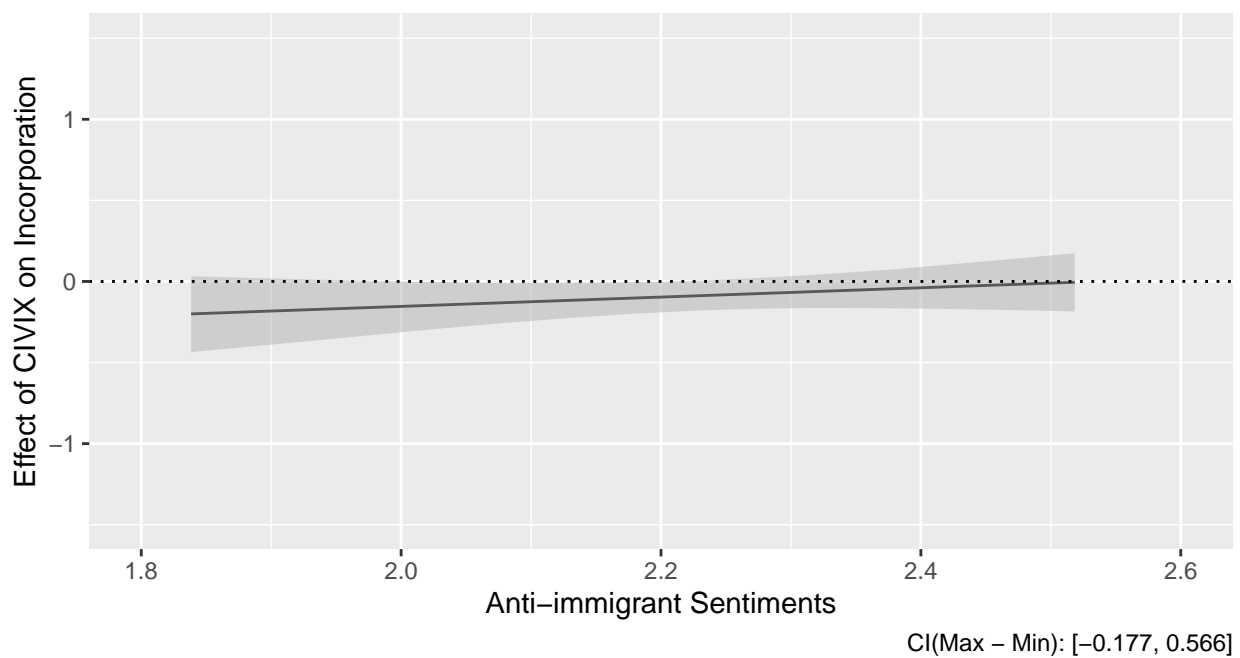
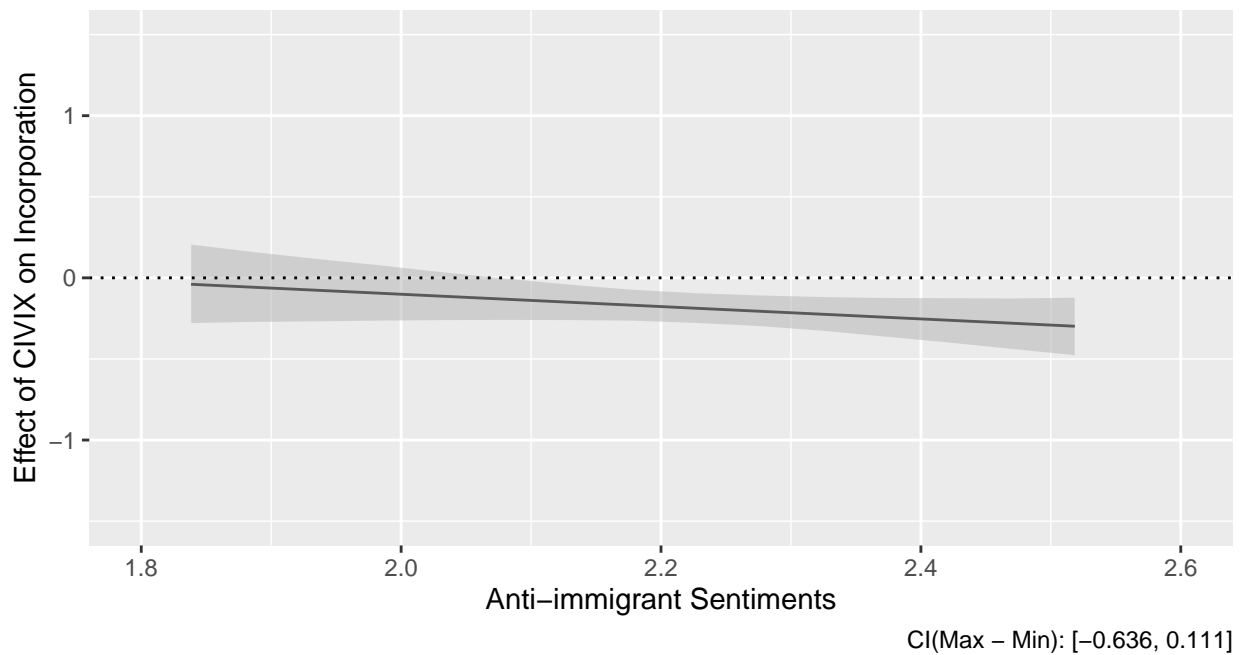


Figure 4: Effect of CIVIX conditional on Anti-immigrant Sentiments: Politics as Complicated (Gap w/Natives)

```

##      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_tenyr)
##
## 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

```



## 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
```

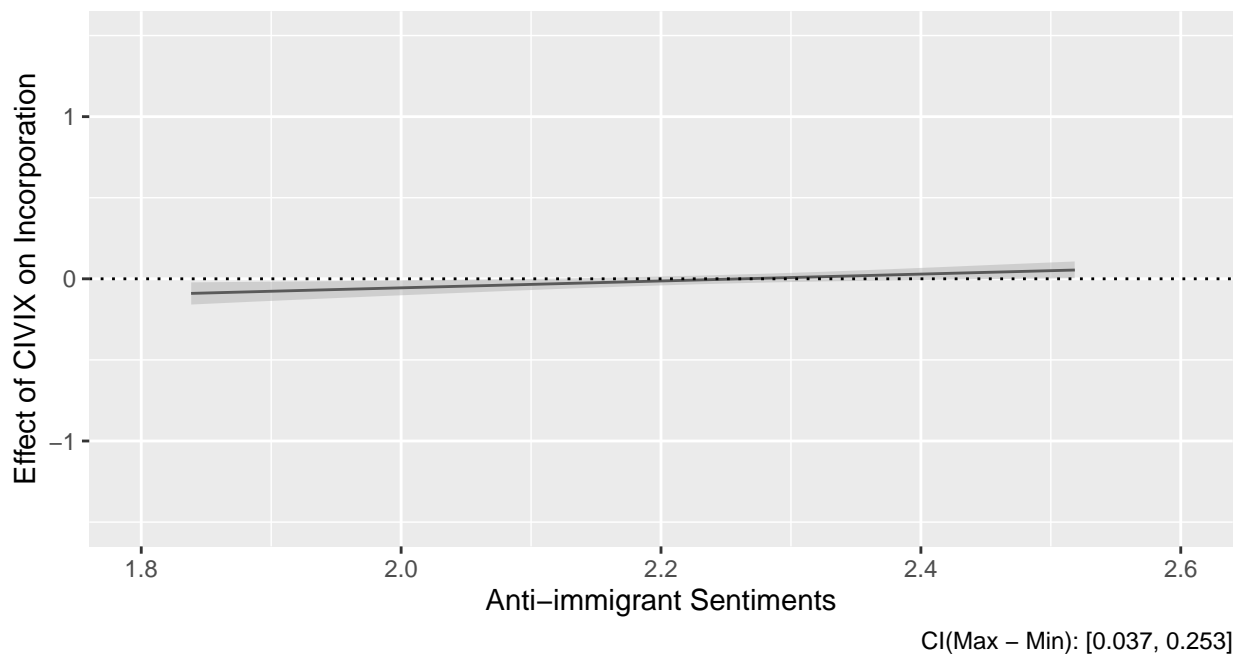
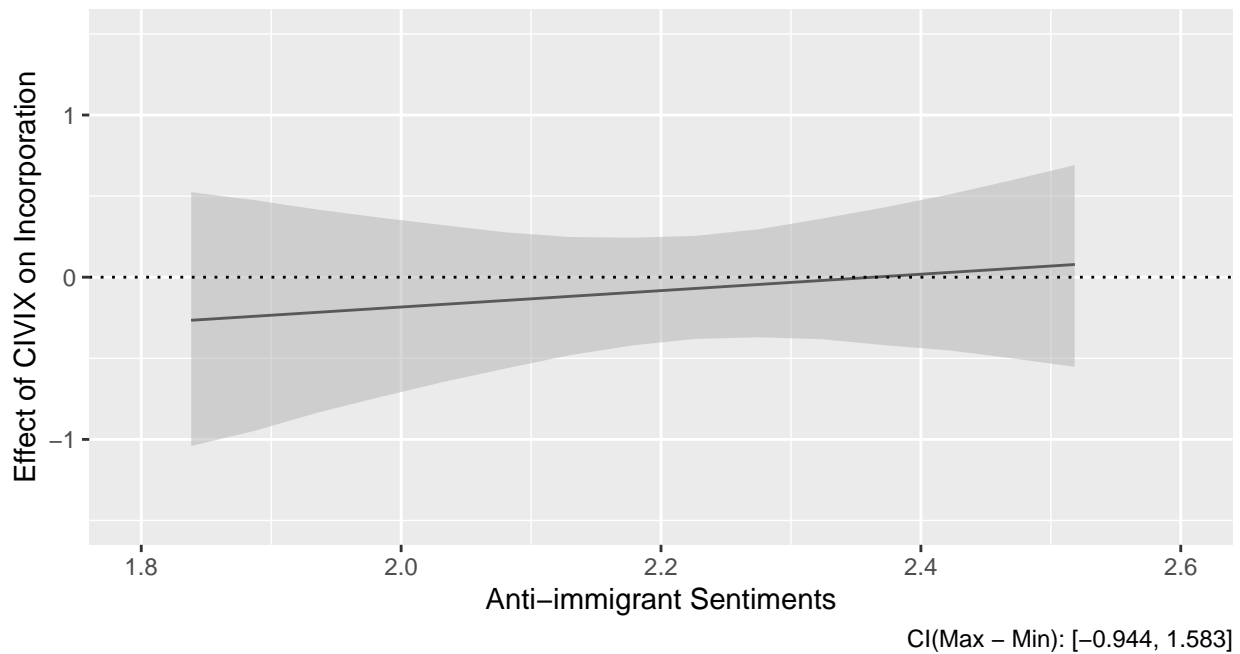
```
summary(ess_tenyr$employ.gap)
```

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



```
##
## Call:
## glm(formula = employ ~ agea + ethnic + female + edu + eubirth +
##       citizen + civix.d * anti1, family = "binomial", data = ess_tenyr)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -2.3758   0.3900   0.4471   0.4701   0.5448
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)   1.423530   1.167978   1.219   0.2229
## agea          0.002363   0.005910   0.400   0.6893
## ethnic        0.019275   0.147565   0.131   0.8961
## female        0.098059   0.130648   0.751   0.4529
## edu           0.021917   0.044757   0.490   0.6244
## eubirth       0.364438   0.178231   2.045   0.0409 *
## citizen      -0.088817   0.153487  -0.579   0.5628
## civix.d      -1.131252   2.127318  -0.532   0.5949
## anti1         0.270939   0.539549   0.502   0.6156
## civix.d:anti1  0.478051   0.952965   0.502   0.6159
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 1737.5  on 2786  degrees of freedom
## Residual deviance: 1728.7  on 2777  degrees of freedom
## (2325 observations deleted due to missingness)
## AIC: 1748.7
##
## Number of Fisher Scoring iterations: 5
##
## 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
```



## 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
```

