220 Project

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```
library(readr)
library(tidyverse)

## Warning: package 'tibble' was built under R version 3.5.2

## Warning: package 'tidyr' was built under R version 3.5.2

## Warning: package 'dplyr' was built under R version 3.5.2

library(stargazer)
dat <- read_csv("dat.csv")

## Warning: Missing column names filled in: 'X1' [1]</pre>
```

Clean the data and make model spec. variables

```
head(dat)
## # A tibble: 6 x 62
##
       X1 year congress party district statenam name ngirls nboys totchi
##
     <int> <chr>
                  <int> <int>
                                 <int> <chr>
                                                  <chr> <int> <int>
## 1
        1 1997~
                     105
                           1
                                       1 HAWAII
                                                  ABER~
## 2
        2 1997~
                      105
                                       5 NEW YOR ACKE~
                                                                   2
                                                                          3
                             1
                                                             1
## 3
        3 1997~
                     105
                             2
                                       4 ALABAMA ADER~
                                                             0
                                                                          0
## 4
                                                             2
                                                                          2
        4 1997~
                     105
                            1
                                       1 MAINE
                                                  ALLE~
## 5
        5 1997~
                      105
                              1
                                       1 NEW JER ANDR~
                                                                          2
         6 1997~
                      105
                              2
                                       7 TEXAS
                                                  ARCH~
## 6
## # ... with 52 more variables: anygirls <int>, propgirls <dbl>,
      rgroup <int>, statabb <chr>, statalph <int>, region <int>,
## #
      repub <int>, srvlng <int>, female <int>, white <int>, bday <chr>,
## #
      age <int>, demvote <dbl>, medinc <int>, perf <dbl>, perw <dbl>,
## #
      perhs <dbl>, percol <dbl>, perur <dbl>, alabort <dbl>, moreserv <dbl>,
## #
      moredef <dbl>, morecrimesp <dbl>, protgay <dbl>, dr1per <dbl>,
## #
      dr2per <dbl>, dr3per <dbl>, dr4per <dbl>, dr5per <dbl>, aauw <int>,
## #
      rtl <int>, now1ot <int>, now1 <int>, now2 <int>, now3 <int>,
## #
      now4 <int>, now5 <int>, now6 <int>, now7 <int>, now8 <int>,
## #
      now9 <int>, now10 <int>, now11 <int>, now12 <int>, now13 <int>,
      now14 <int>, now15 <int>, now16 <int>, now17 <int>, now18 <int>,
      now19 <int>, now20 <int>
## #
dat$age2 <- dat$age^2
dat$srvlng2 <- dat$srvlng^2</pre>
dat$rgroup <- factor(dat$rgroup)</pre>
prop.table(table(dat$rgroup))
##
```

```
levels(dat$rgroup) <- c("None", "Protestant", "Catholic", "Other Christian", "Other religion")
dat$rgroup <- factor(dat$rgroup, levels = c("Protestant", "None", "Catholic", "Other Christian", "Other</pre>
```

Model with NOW data

```
datNOW <- dat %>%
 filter(congress == 105)
lm.1 <- lm(nowtot ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote
summary(lm.1)
##
## Call:
## lm(formula = nowtot ~ ngirls + female + white + repub + age +
      age2 + srvlng + srvlng2 + rgroup + demvote + factor(totchi) +
      factor(region), data = datNOW)
##
##
## Residuals:
##
      Min
               1Q Median
                              3Q
                                     Max
## -51.732 -9.666 -0.456
                           8.932 62.264
##
## Coefficients:
##
                         Estimate Std. Error t value Pr(>|t|)
                                              0.786 0.43235
## (Intercept)
                        17.025463 21.661760
## ngirls
                         2.299519
                                   1.038119
                                              2.215 0.02732 *
## female
                                   2.689784
                                             4.029 6.70e-05 ***
                        10.838011
## white
                        1.860315 3.451382
                                              0.539 0.59018
## repub
                       -44.902819 2.109021 -21.291 < 2e-16 ***
                                              0.826 0.40919
## age
                         0.660705 0.799702
## age2
                        ## srvlng
                        0.235404 0.300004
                                             0.785 0.43311
                        -0.008915 0.010147 -0.879 0.38015
## srvlng2
## rgroupNone
                         7.261925 7.022355
                                              1.034 0.30171
## rgroupCatholic
                        -3.973955 1.940810 -2.048 0.04126 *
## rgroupOther Christian 0.768547 4.600263 0.167 0.86740
## rgroupOther religion 10.866171
                                   3.751570
                                             2.896 0.00398 **
## demvote
                        84.158438 10.868851
                                              7.743 8.11e-14 ***
                        -3.278460 3.497060 -0.937 0.34907
## factor(totchi)1
                        -5.523599 2.820904 -1.958 0.05092 .
## factor(totchi)2
                        -7.369559 3.272709 -2.252 0.02488 *
## factor(totchi)3
                       -11.011583 3.778913 -2.914 0.00377 **
## factor(totchi)4
## factor(totchi)5
                       -10.273736 4.718991
                                            -2.177 0.03006 *
## factor(totchi)6
                       -12.453781
                                    8.278559 -1.504 0.13329
                                             -1.110 0.26780
## factor(totchi)7
                       -10.634369
                                   9.583229
## factor(totchi)8
                       -28.973542 11.297360 -2.565 0.01069 *
## factor(totchi)9
                       -14.077336 17.660353 -0.797 0.42586
## factor(totchi)10
                       -23.044561 17.220364 -1.338 0.18159
                                             -2.901 0.00392 **
## factor(region)2
                       -11.884261
                                  4.095975
## factor(region)3
                       -13.046715 4.086030 -3.193 0.00152 **
## factor(region)4
                       -13.586565 4.701898 -2.890 0.00407 **
                       -11.358358 4.222274 -2.690 0.00744 **
## factor(region)5
## factor(region)6
                       -22.280800 4.984814 -4.470 1.02e-05 ***
```

Model with AAUW 105th Congress

```
datAAUW105 <- dat %>%
 filter (congress == 105)
lm.2 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
summary(lm.2)
##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
      srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##
      data = datAAUW105)
##
## Residuals:
      Min
              1Q Median
                             30
                                   Max
## -58.930 -11.232 -0.809
                          8.842 74.928
## Coefficients:
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       36.450769 23.400913 1.558 0.120100
                        2.384821 1.123848 2.122 0.034448 *
## ngirls
## female
                        9.193665 2.910140 3.159 0.001702 **
## white
                        0.143934 3.675846 0.039 0.968785
                      -60.468440 2.280175 -26.519 < 2e-16 ***
## repub
                        0.854420 0.860012 0.993 0.321065
## age
## age2
                       ## srvlng
                       ## srvlng2
                        0.003581 0.010908
                                           0.328 0.742865
                       5.670655 7.605983 0.746 0.456374
## rgroupNone
## rgroupCatholic
                       -4.504837 2.091041 -2.154 0.031806 *
## rgroupOther Christian 3.204342 4.983300 0.643 0.520580
## rgroupOther religion 9.682583 4.047467 2.392 0.017204 *
## demvote
                       62.147959 11.567940 5.372 1.32e-07 ***
## factor(totchi)1
                       -3.497354 3.738651 -0.935 0.350113
## factor(totchi)2
                       -4.408748 3.038459 -1.451 0.147565
                       -7.397466 3.526217 -2.098 0.036542 *
## factor(totchi)3
## factor(totchi)4
                      -10.871754 4.061698 -2.677 0.007740 **
## factor(totchi)5
                      -13.035875 5.093865 -2.559 0.010859 *
## factor(totchi)6
                      -17.865026 8.953045 -1.995 0.046672 *
## factor(totchi)7
                      -11.856900 10.376659 -1.143 0.253864
## factor(totchi)8
                      -43.702778 12.225549 -3.575 0.000393 ***
## factor(totchi)9
                      -15.928693 19.124351 -0.833 0.405395
```

```
## factor(totchi)10
                        -26.659436 18.646598 -1.430 0.153574
                        -9.286950 4.408594 -2.107 0.035775 *
## factor(region)2
## factor(region)3
                        -12.576558 4.421819 -2.844 0.004680 **
                        -7.869625 5.086779 -1.547 0.122632
## factor(region)4
## factor(region)5
                       -10.056063 4.565364 -2.203 0.028184 *
## factor(region)6
                       -19.685949 5.393746 -3.650 0.000297 ***
## factor(region)7
                       -15.546480 4.887668 -3.181 0.001583 **
                       -16.451153 5.450929 -3.018 0.002706 **
## factor(region)8
## factor(region)9
                        -8.656789 4.432920 -1.953 0.051532 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 17.44 on 402 degrees of freedom
    (1 observation deleted due to missingness)
## Multiple R-squared: 0.84, Adjusted R-squared: 0.8276
## F-statistic: 68.06 on 31 and 402 DF, p-value: < 2.2e-16
```

Model with AAUW 106th Congress

```
datAAUW106 <- dat %>%
 filter (congress == 106)
lm.3 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
summary(lm.3)
##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
      srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##
      data = datAAUW106)
##
## Residuals:
              10 Median
                             30
## -68.861 -12.254 -0.263 10.379 77.986
## Coefficients:
                        Estimate Std. Error t value Pr(>|t|)
                        9.384230 25.004019 0.375 0.707628
## (Intercept)
## ngirls
                        1.687779
                                 1.135634 1.486 0.138008
## female
                       10.440223
                                  2.881348
                                            3.623 0.000328 ***
## white
                        2.594087
                                  3.833331
                                            0.677 0.498973
## repub
                      -55.927128 2.335258 -23.949 < 2e-16 ***
                                           2.256 0.024604 *
## age
                       2.034389 0.901753
                       ## age2
                       ## srvlng
## srvlng2
                        0.024968 0.012860
                                           1.941 0.052895 .
                        5.352528 7.790652 0.687 0.492450
## rgroupNone
                       -2.276623 2.128764 -1.069 0.285504
## rgroupCatholic
## rgroupOther Christian 1.690461 4.912183 0.344 0.730923
## rgroupOther religion 11.889799 4.342803 2.738 0.006459 **
## demvote
                       57.436919 12.017562 4.779 2.47e-06 ***
## factor(totchi)1
                       -5.469827
                                  3.752974 -1.457 0.145767
## factor(totchi)2
                       -5.402323 3.150248 -1.715 0.087134 .
## factor(totchi)3
                       -6.654154 3.649826 -1.823 0.069022 .
```

```
## factor(totchi)4
                        -10.650334 4.337895 -2.455 0.014503 *
## factor(totchi)5
                        -11.565357 5.110870 -2.263 0.024174 *
## factor(totchi)6
                        -20.394694 10.255307 -1.989 0.047411 *
## factor(totchi)7
                        -10.534574 10.152137 -1.038 0.300046
## factor(totchi)8
                        -29.255772 12.752995 -2.294 0.022302 *
## factor(totchi)10
                       -13.980355 19.157892 -0.730 0.465971
                        -3.234622 4.482938 -0.722 0.470995
## factor(region)2
                        -12.105109 4.486371 -2.698 0.007265 **
## factor(region)3
## factor(region)4
                         -8.518744 5.213591 -1.634 0.103050
## factor(region)5
                        -6.371197 4.671525 -1.364 0.173380
## factor(region)6
                        -13.846102 5.484528 -2.525 0.011967 *
                        -15.202413 4.974428 -3.056 0.002391 **
## factor(region)7
## factor(region)8
                        -14.357427    5.641486    -2.545    0.011301 *
## factor(region)9
                         -5.079990 4.553775 -1.116 0.265277
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 17.88 on 403 degrees of freedom
     (1 observation deleted due to missingness)
## Multiple R-squared: 0.8144, Adjusted R-squared: 0.8006
## F-statistic: 58.95 on 30 and 403 DF, p-value: < 2.2e-16
```

Model with AAUW 107th Congress

```
datAAUW107 <- dat %>%
 filter (congress == 107)
lm.4 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
summary(lm.4)
##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
      srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##
      data = datAAUW107)
##
## Residuals:
      Min
               10 Median
                               3Q
                                      Max
## -79.797 -7.674
                    0.000
                            7.851 79.645
##
## Coefficients:
                          Estimate Std. Error t value Pr(>|t|)
                         2.745e+01 2.191e+01
                                              1.252 0.211141
## (Intercept)
                                              2.217 0.027194 *
## ngirls
                         2.421e+00 1.092e+00
## female
                         7.564e+00 2.618e+00 2.889 0.004069 **
## white
                        -2.626e+00 3.150e+00 -0.834 0.404940
                        -6.322e+01 2.120e+00 -29.820 < 2e-16 ***
## repub
                         1.298e+00 7.990e-01
                                                1.624 0.105074
## age
## age2
                        -1.152e-02 7.466e-03 -1.543 0.123695
## srvlng
                        -1.001e-01 3.457e-01 -0.289 0.772363
## srvlng2
                        -1.683e-04 1.110e-02 -0.015 0.987905
## rgroupNone
                         7.027e+00 7.176e+00
                                               0.979 0.328088
## rgroupCatholic
                        -4.016e+00 1.987e+00 -2.021 0.043926 *
## rgroupOther Christian 1.646e+00 4.491e+00
                                              0.367 0.714184
```

```
## rgroupOther religion
                         1.029e+01 3.785e+00
                                               2.718 0.006859 **
## demvote
                         5.621e+01 9.092e+00 6.182 1.56e-09 ***
## factor(totchi)1
                        -1.611e+00 3.378e+00 -0.477 0.633804
## factor(totchi)2
                        -3.251e+00 2.938e+00 -1.106 0.269226
## factor(totchi)3
                        -6.314e+00 3.465e+00 -1.822 0.069177
## factor(totchi)4
                        -8.223e+00 4.033e+00 -2.039 0.042116 *
## factor(totchi)5
                        -9.637e+00 4.836e+00 -1.992 0.046992 *
                        -2.121e+01 9.432e+00 -2.249 0.025049 *
## factor(totchi)6
## factor(totchi)7
                        -1.000e+00 1.053e+01 -0.095 0.924357
## factor(totchi)8
                        -2.079e+01 1.197e+01 -1.737 0.083078
## factor(totchi)9
                        -2.467e+01 1.928e+01 -1.279 0.201489
                        -1.559e+01 1.777e+01
## factor(totchi)10
                                              -0.877 0.381083
## factor(region)2
                        -4.331e+00 4.132e+00 -1.048 0.295162
## factor(region)3
                        -9.906e+00 4.142e+00 -2.392 0.017233 *
## factor(region)4
                        -3.831e+00 4.891e+00 -0.783 0.433945
## factor(region)5
                        -1.001e+01 4.330e+00
                                              -2.311 0.021320 *
## factor(region)6
                        -1.798e+01 5.075e+00 -3.543 0.000442 ***
## factor(region)7
                        -8.571e+00 4.747e+00 -1.805 0.071752 .
## factor(region)8
                        -8.901e+00 5.193e+00 -1.714 0.087306 .
## factor(region)9
                        -5.677e+00 4.203e+00 -1.351 0.177493
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 16.49 on 402 degrees of freedom
     (1 observation deleted due to missingness)
## Multiple R-squared: 0.8649, Adjusted R-squared: 0.8545
## F-statistic: 83.03 on 31 and 402 DF, \, p-value: < 2.2e-16
```

Model with AAUW 107th Congress

```
datAAUW108 <- dat %>%
 filter (congress == 108)
lm.5 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote + :
summary(lm.5)
##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
##
       srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##
       data = datAAUW108)
##
## Residuals:
                1Q Median
                                3Q
## -76.876 -9.159 -0.796
                             9.686 78.595
## Coefficients:
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           1.869862 24.069084 0.078 0.938116
## ngirls
                           2.250368
                                    1.145479
                                                1.965 0.050156 .
## female
                                    2.730097
                                                 2.531 0.011767 *
                           6.908988
## white
                           1.938711
                                     3.210661
                                                 0.604 0.546295
## repub
                                    2.436017 -26.244 < 2e-16 ***
                        -63.931869
## age
                           2.300460
                                     0.860041
                                                 2.675 0.007784 **
```

```
## age2
                         -0.020665
                                    0.007987 -2.587 0.010024 *
## srvlng
                         -0.138930
                                    0.326509 -0.426 0.670700
                                    0.010171
## srvlng2
                          0.004479
                                               0.440 0.659920
## rgroupNone
                         -7.137120
                                    7.499321
                                             -0.952 0.341823
## rgroupCatholic
                         -5.467578
                                    2.077421
                                             -2.632 0.008819 **
## rgroupOther Christian
                          3.873688
                                   4.683620
                                               0.827 0.408690
## rgroupOther religion
                          3.156054
                                   3.959417
                                               0.797 0.425865
                         66.950320 10.888708
## demvote
                                               6.149 1.89e-09 ***
## factor(totchi)1
                         -7.450581
                                   3.634887 -2.050 0.041041 *
## factor(totchi)2
                         -8.891984
                                    3.118601 -2.851 0.004580 **
## factor(totchi)3
                        -14.094729 3.622081 -3.891 0.000117 ***
## factor(totchi)4
                        -10.660337
                                    4.324511 -2.465 0.014117 *
## factor(totchi)5
                        -16.514534
                                    5.315221 -3.107 0.002025 **
## factor(totchi)6
                        -24.936074
                                    9.858029 -2.530 0.011805 *
## factor(totchi)7
                         -2.564773 11.019008 -0.233 0.816068
## factor(totchi)8
                        -25.529296 12.548549
                                              -2.034 0.042566 *
## factor(totchi)9
                        -42.548910 20.181228 -2.108 0.035623 *
## factor(totchi)10
                        -14.668008 18.636690 -0.787 0.431719
                        -26.442540 19.525851 -1.354 0.176427
## factor(totchi)12
## factor(region)2
                         -8.727198
                                   4.452392 -1.960 0.050676
## factor(region)3
                        -12.943889 4.482627 -2.888 0.004093 **
## factor(region)4
                        -11.613990 5.206694 -2.231 0.026262 *
                        -13.680979 4.556604 -3.002 0.002846 **
## factor(region)5
## factor(region)6
                        -20.166479 5.442755 -3.705 0.000241 ***
## factor(region)7
                        -11.724006 5.084689 -2.306 0.021636 *
## factor(region)8
                        -16.528372 5.368109 -3.079 0.002220 **
## factor(region)9
                        -10.709793 4.449345 -2.407 0.016534 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 17.23 on 400 degrees of freedom
     (2 observations deleted due to missingness)
## Multiple R-squared: 0.8586, Adjusted R-squared: 0.8473
## F-statistic: 75.92 on 32 and 400 DF, p-value: < 2.2e-16
```

Put all models in a stargazer table

```
stargazer(lm.1, lm.2, lm.3, lm.4, lm.5, title = "Table 2-Impact of Female Children on Legislator Voting
```

Table 3 Replication

NOW all legislators

```
lm_all_NOW<-lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvote
lm_all_NOW$coefficients[2]
## ngirls
## 2.299519</pre>
```

Table 1: Replication of Table 2—Impact of Female Children on Legislator Voting on Women's Issues

	$105 \mathrm{th}$	$105 \mathrm{th}$	106th	107th	108th	
	(1)	(2)	(3)	(4)	(5)	
Number of female children	2.300** (1.038)	2.385** (1.124)	1.688 (1.136)	2.421** (1.092)	2.250* (1.145)	
Female	10.838*** (2.690)	9.194*** (2.910)	10.440*** (2.881)	7.564*** (2.618)	6.909** (2.730)	
White	1.860 (3.451)	0.144 (3.676)	2.594 (3.833)	-2.626 (3.150)	1.939 (3.211)	
Republican	-44.903^{***} (2.109)	-60.468^{***} (2.280)	-55.927^{***} (2.335)	-63.216*** (2.120)	-63.932^{***} (2.436)	
Age	0.661 (0.800)	0.854 (0.860)	2.034** (0.902)	1.298 (0.799)	2.300*** (0.860)	
Age squared	-0.006 (0.008)	-0.006 (0.008)	-0.018** (0.009)	-0.012 (0.007)	-0.021^{**} (0.008)	
Service Length	0.235 (0.300)	-0.208 (0.324)	-0.726^* (0.380)	-0.100 (0.346)	-0.139 (0.327)	
Service length squared	-0.009 (0.010)	0.004 (0.011)	0.025^* (0.013)	-0.0002 (0.011)	0.004 (0.010)	
No religion	7.262 (7.022)	5.671 (7.606)	5.353 (7.791)	7.027 (7.176)	-7.137 (7.499)	
Catholic	-3.974** (1.941)	-4.505** (2.091)	-2.277 (2.129)	-4.016^{**} (1.987)	-5.468^{***} (2.077)	
Other Christian	0.769 (4.600)	3.204 (4.983)	1.690 (4.912)	1.646 (4.491)	3.874 (4.684)	
Other religion	10.866*** (3.752)	9.683** (4.047)	11.890*** (4.343)	10.286*** (3.785)	3.156 (3.959)	
Democratic vote share in district	84.158*** (10.869)	62.148*** (11.568)	57.437*** (12.018)	56.206*** (9.092)	66.950*** (10.889)	
N	430	434	434	434	433	

Note:

*p<0.1; **p<0.05; ***p<0.01

NOW Men only

```
lm_men_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvo
lm_men_NOW$coefficients[2]
## ngirls</pre>
```

NOW Women only

```
lm_women_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + dem
lm_women_NOW$coefficients[2]</pre>
```

```
## ngirls
## -1.671572
```

2.484019

NOW Dems only

```
lm_Dem_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvor
lm_Dem_NOW$coefficients[2]</pre>
```

```
## ngirls
## 2.931423
```

NOW Repubs only

```
lm_Repub_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + dem
lm_Repub_NOW$coefficients[2]</pre>
```

```
## ngirls
## 1.278677
```

AAUW All

```
lm_all_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot
lm_all_AAUW$coefficients[2]</pre>
```

```
## ngirls
## 2.384821
```

AAUW Men only

```
lm_men_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot
lm_men_AAUW$coefficients[2]</pre>
```

```
## ngirls
## 2.486103
```

AAUW Women only

```
lm_women_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demv
lm_women_AAUW$coefficients[2]</pre>
```

```
## ngirls
## -3.899658
```

AAUW Dems only

```
lm_Dem_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot
lm_Dem_AAUW$coefficients[2]

## ngirls
## 2.219818</pre>
```

AAUW Repubs only

```
lm_Repub_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demv
lm_Repub_AAUW$coefficients[2]</pre>
```

ngirls ## 1.83106

Make the table

Table 2: Replication of Table 3—Impact of Female Children on Legislator Voting on Women's Issues, by Legislator Gender and Party

(Each cell presents the coefficient on number of daughters from a different regression)

		Gender		Party	
Data Source	All Legislators	Men	Women	Democrats	Republicans
NOW, 105th Congress	2.3**	2.48**	-1.67	2.93*	1.28*
	(1.04)	(1.09)	(5.64)	(1.6)	(1.32)
	[430]	[382]	[48]	[204]	[226]
AAUW, 105th Congress	2.38**	2.49**	-3.9	2.22	1.83
	(1.12)	(1.17)	(6.41)	(1.44)	(1.56)
	[434]	[386]	[48]	[207]	[227]

Note:

summary(lm_ext2_107)

*p<0.1; **p<0.05; ***p<0.01

Extensions

Ext2: Use whether ever having a female child instead of number of female children.

```
lm_ext2_105 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + det
lm_ext2_106 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + det
lm_ext2_107 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + det
lm_ext2_108 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + det
summary(lm_ext2_105)
summary(lm_ext2_106)</pre>
```

Table 3: Impact of Having Any Female Children on Legislator Voting on Women's Issues

	Dependent variable:						
	AAUW						
	(1)	(2)	(3)	(4)			
Has Female Child	4.400*	3.252	2.318	1.609			
	(2.661)	(2.565)	(2.396)	(2.468)			
Female	9.174***	10.456***	7.503***	6.907**			
	(2.918)	(2.883)	(2.631)	(2.743)			
White	0.035	2.538	-2.744	1.794			
	(3.683)	(3.837)	(3.165)	(3.226)			
Republican	-60.542***	-56.008***	-63.410***	-63.919***			
	(2.285)	(2.337)	(2.129)	(2.448)			
Age	0.834	2.001**	1.353*	2.312***			
	(0.863)	(0.903)	(0.803)	(0.864)			
Age squared	-0.006	-0.018**	-0.012	-0.021**			
	(0.008)	(0.009)	(0.007)	(0.008)			
Service Length	-0.239	-0.748*	-0.092	-0.127			
C	(0.324)	(0.381)	(0.349)	(0.328)			
Service Length squared	0.004	0.026**	-0.001	0.004			
	(0.011)	(0.013)	(0.011)	(0.010)			
No Religion	5.492	4.782	6.681	-7.286			
	(7.626)	(7.804)	(7.221)	(7.541)			
Catholic	-4.613**	-2.323	-3.969**	-5.356**			
	(2.095)	(2.130)	(1.997)	(2.085)			
Other Christian	3.085	1.336	1.136	3.422			
	(4.998)	(4.932)	(4.516)	(4.707)			
Other religion	9.506**	11.705***	10.274***	3.278			
	(4.059)	(4.345)	(3.805)	(3.976)			
Democrative vote share in district	62.510***	57.591***	56.325***	67.648***			
	(11.594)	(12.025)	(9.148)	(10.962)			
Observations	434	434	434	433			
\mathbb{R}^2	0.839	0.814	0.864	0.857			
Adjusted R^2	0.827	0.800	0.853	0.846			

Note:

*p<0.1; **p<0.05; ***p<0.01

Ext3: Use proportion of female children instead of number of female children

```
lm_ext3_105 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + d
lm_ext3_106 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + d
lm_ext3_107 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + d
lm_ext3_108 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + d
summary(lm_ext3_105)
summary(lm_ext3_106)
summary(lm_ext3_107)
summary(lm_ext3_108)</pre>
```

Ext4: Add an interaction term between "girls" and female representatives.

```
lm_ext4_105 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext4_106 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext4_107 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext4_108 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
summary(lm_ext4_108)
summary(lm_ext4_106)
summary(lm_ext4_107)
summary(lm_ext4_108)</pre>
```

Ext5: Add an interaction term between "girls" and political parties.

```
lm_ext5_105 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext5_106 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext5_107 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext5_108 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
summary(lm_ext5_105)
summary(lm_ext5_106)
summary(lm_ext5_107)
summary(lm_ext5_108)</pre>
```