Running R Analysis Code

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We knit to show the output of running the analysis code.

```
library(confounding)
```

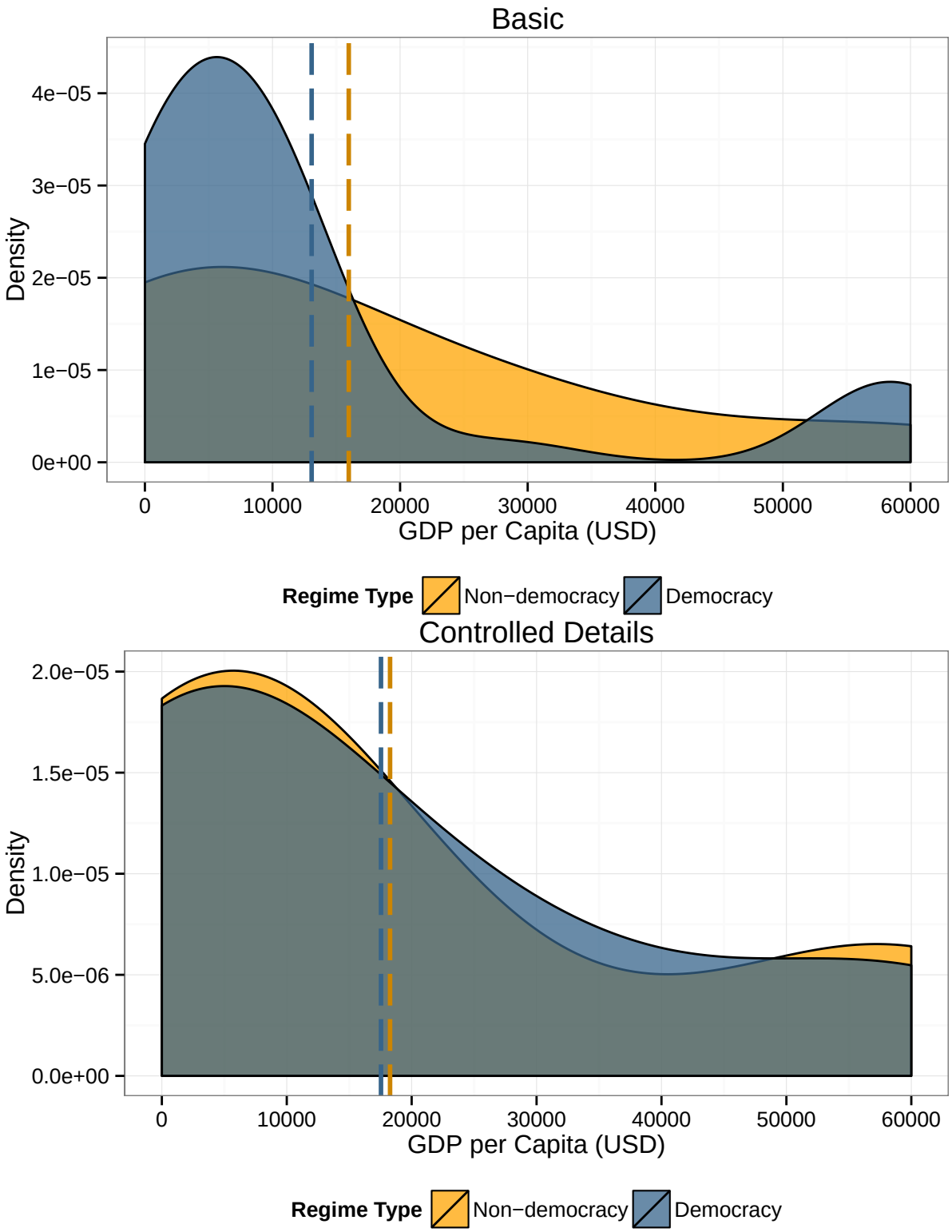
```
## Loading required package: ggplot2
## Loading required package: foreign
## Loading required package: xtable
## Loading required package: reshape
## Loading required package: haven
## Loading required package: systemfit
## Loading required package: Matrix
##
## Attaching package: 'Matrix'
##
## The following object is masked from 'package:reshape':
##
##     expand
##
## Loading required package: car
## Loading required package: lmtest
## Loading required package: zoo
##
## Attaching package: 'zoo'
##
## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric
##
## Loading required package: lfe
##
## Attaching package: 'lfe'
##
## The following object is masked from 'package:lmtest':
##
##     waldtest
##
## Loading required package: pacman
## Loading required package: pwr
## Loading required package: reshape2
##
## Attaching package: 'reshape2'
##
## The following objects are masked from 'package:reshape':
##
##     colsplit, melt, recast
##
## Loading required package: dplyr
```

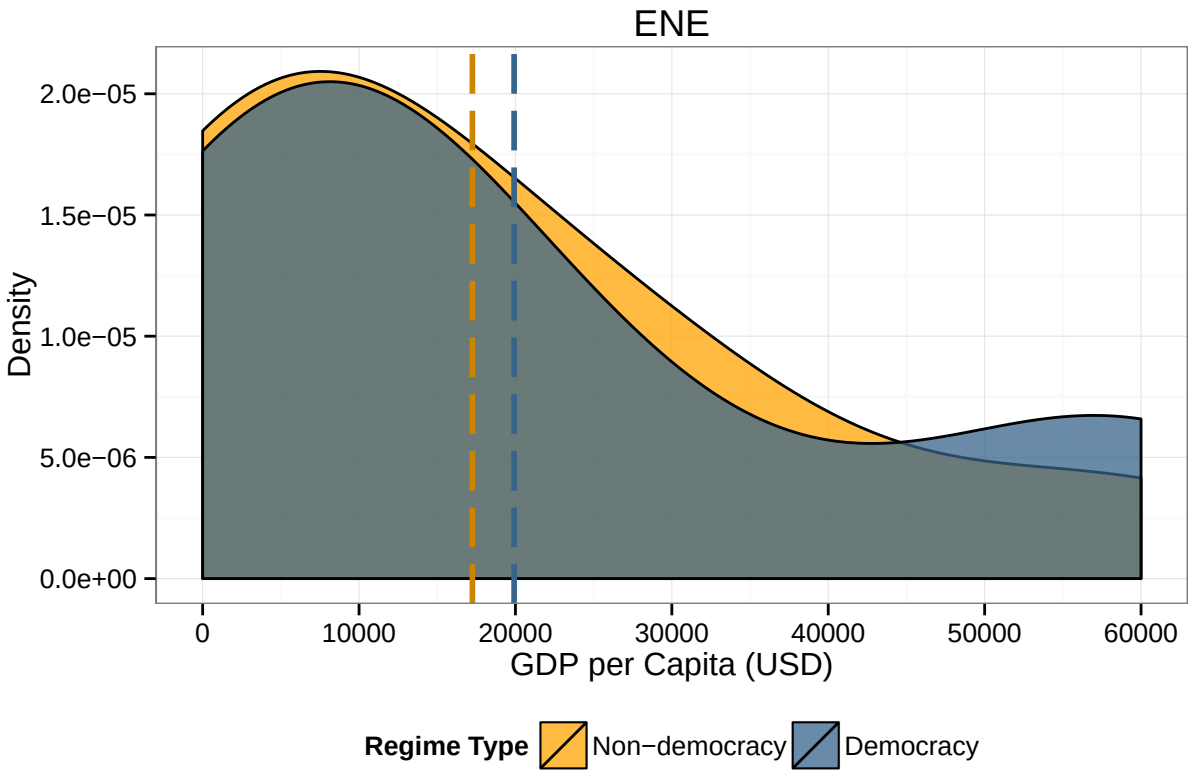
```
##
## Attaching package: 'dplyr'
##
## The following object is masked from 'package:reshape':
##
##     rename
##
## The following objects are masked from 'package:stats':
##
##     filter, lag
##
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
##
## Loading required package: magrittr
## Loading required package: testthat
##
## Attaching package: 'testthat'
##
## The following objects are masked from 'package:magrittr':
##
##     equals, is_less_than, not

## Warning: replacing previous import by 'dplyr::rename' when loading
## 'confounding'

## Warning: replacing previous import by 'reshape2::colsplit' when loading
## 'confounding'

## Warning: replacing previous import by 'reshape2::melt' when loading
## 'confounding'

## Warning: replacing previous import by 'reshape2::recast' when loading
## 'confounding'

## Warning: replacing previous import by 'magrittr::%>%' when loading
## 'confounding'

## Warning: replacing previous import by 'testthat::equals' when loading
## 'confounding'

## Warning: replacing previous import by 'testthat::is_less_than' when loading
## 'confounding'

## Warning: replacing previous import by 'testthat::not' when loading
## 'confounding'
```

```
survey4_analyze(output_print = TRUE)
```

```
## [1] "Complied Date and Time: 2015-07-01 08:46:01"
```

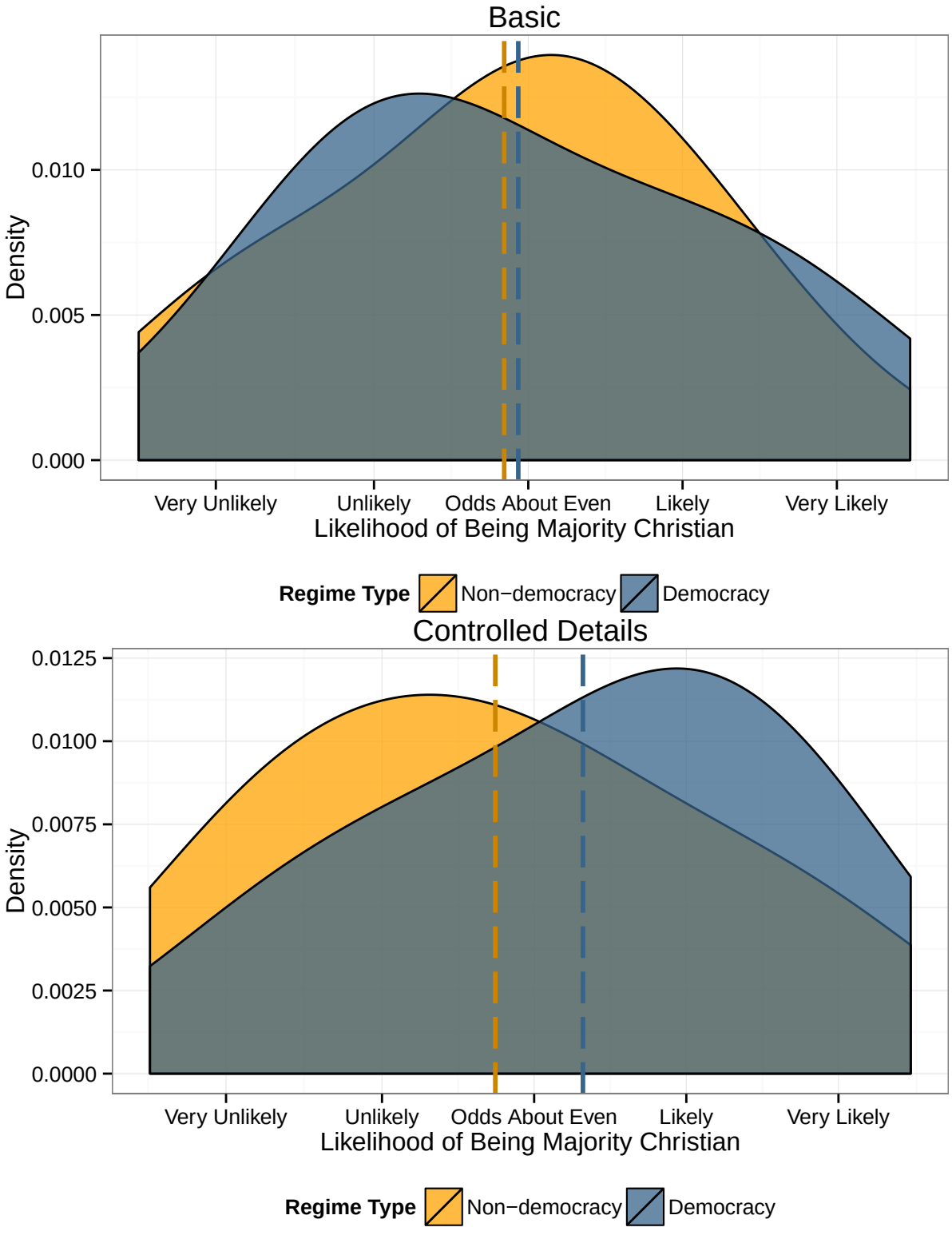
```
## Loading required package: sandwich

## [1] "Placebo Test C: Regions of the World"
##            [,1]      [,2]
## [1,]  0.1601764 0.2525493
## [2,]  0.1683116 0.2541643
## [3,] -0.1477916 0.2486409
##            [,1]      [,2]
## [1,]  0.1486742 0.2344140
## [2,]  0.1764706 0.2664850
## [3,] -0.1800357 0.3028875
##
## t test of coefficients:
##
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    -0.242424   0.176944 -1.3701   0.1723
## ZDemocracy                      0.148674   0.234414  0.6342   0.5267
## VControlled Details             0.242424   0.285056  0.8504   0.3961
## VENE                            0.363636   0.264383  1.3754   0.1706
## ZDemocracy:VControlled Details  0.027796   0.354914  0.0783   0.9377
## ZDemocracy:VENE                -0.328710   0.383002 -0.8582   0.3918
##
##
## t test of coefficients:
##
##                                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    -0.0788561  0.1906332 -0.4137   0.6796
## ZDemocracy                      0.1601764  0.2525493  0.6342   0.5267
## VControlled Details            -0.0078499  0.2859670 -0.0275   0.9781
## VENE                            0.1538548  0.2496906  0.6162   0.5385
## ZDemocracy:VControlled Details  0.0081353  0.3583024  0.0227   0.9819
## ZDemocracy:VENE                -0.3079680  0.3544058 -0.8690   0.3859
```

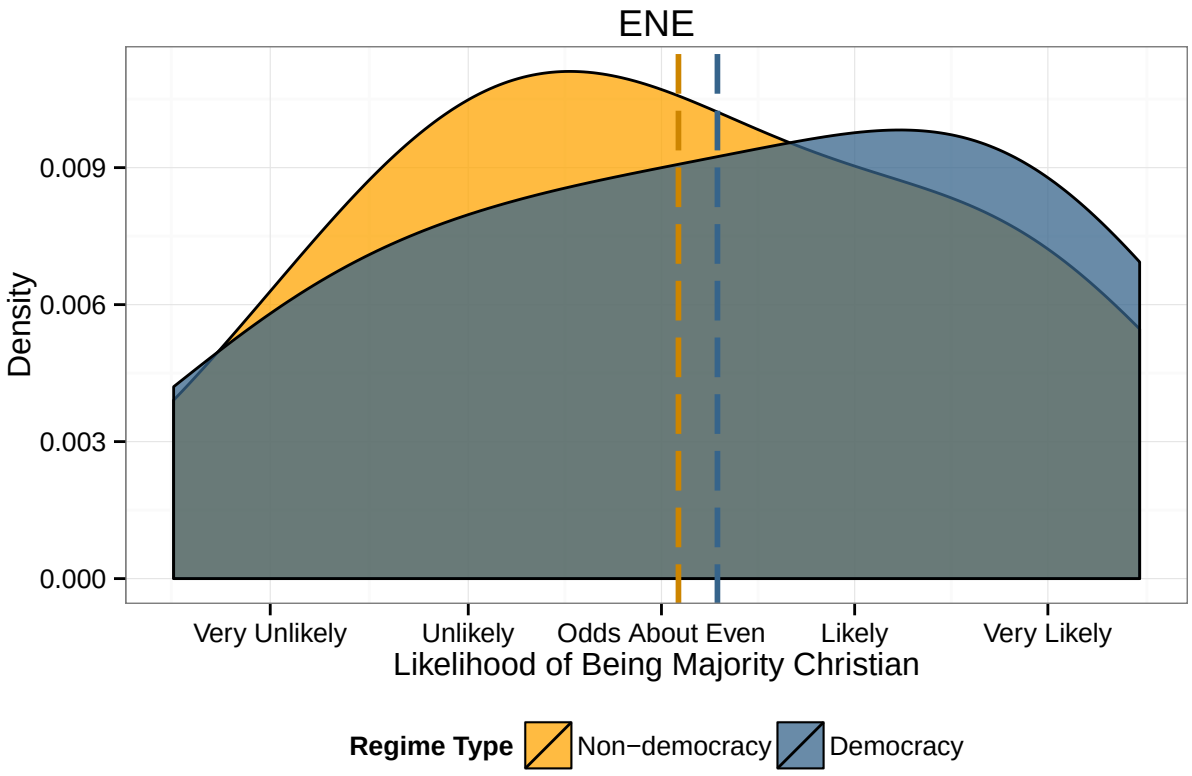

Basic
Density
4e−05
3e−05
2e−05
1e−05
0e+00
0
10000
20000
30000
40000
50000
60000
GDP per Capita (USD)
Regime Type
Non−democracy
Democracy
Controlled Details
Density
2.0e−05
1.5e−05
1.0e−05
5.0e−06
0.0e+00
0
10000
20000
30000
40000
50000
60000
GDP per Capita (USD)
Regime Type
Non−democracy
Democracy




```
## [1] "Placebo Test D: GDP per Capita"
##             [,1]      [,2]
## [1,] -0.15634747 0.2530683
## [2,] -0.03314614 0.2524164
## [3,]  0.13301169 0.2488952
##           [,1]     [,2]
## [1,] -2909.028 4708.633
## [2,]  -727.535 5540.367
## [3,]  2666.414 4989.470
##
## t test of coefficients:
##
##                                Estimate Std. Error t value  Pr(>|t|)
## (Intercept)                     15976.8     3362.0  4.7521 3.937e-06 ***
## ZDemocracy                      -2909.0     4708.6 -0.6178    0.5374
## VControlled Details              2294.6     5279.6  0.4346    0.6643
## VENE                             1271.5     4709.1  0.2700    0.7874
## ZDemocracy:VControlled Details   2181.5     7271.0  0.3000    0.7645
## ZDemocracy:VENE                  5575.4     6860.5  0.8127    0.4174
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    0.076971   0.180695  0.4260   0.6706
## ZDemocracy                    -0.156347   0.253068 -0.6178   0.5374
## VControlled Details           -0.059896   0.258934 -0.2313   0.8173
```

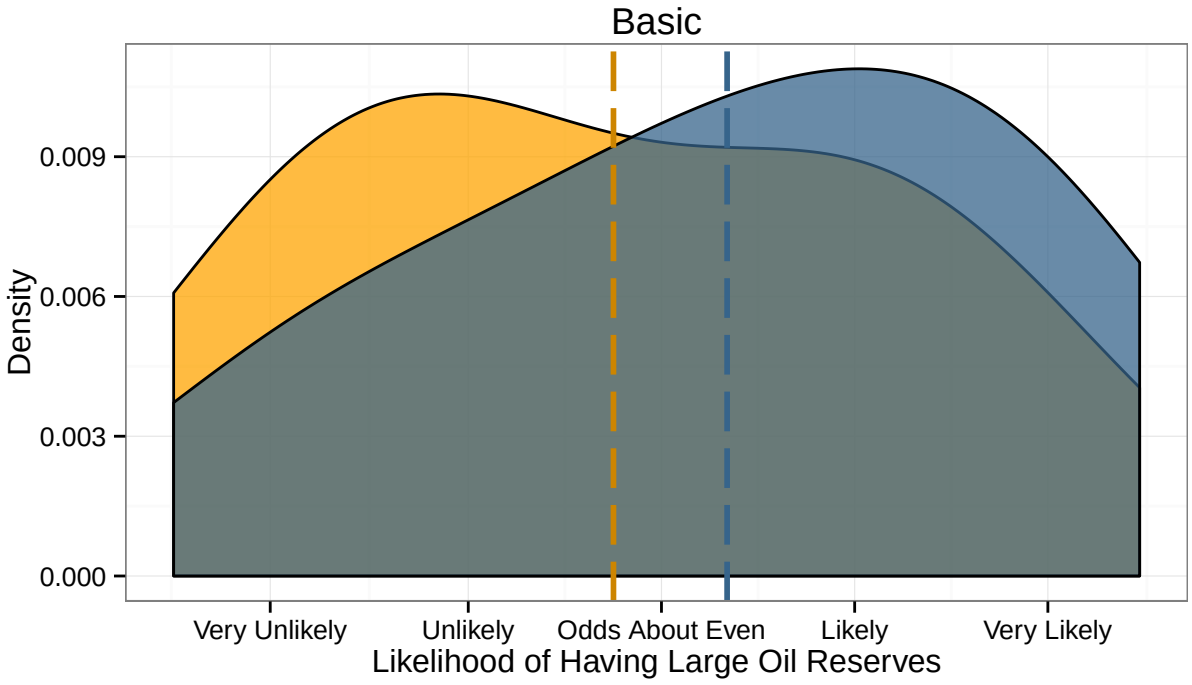
```
## VENE                            -0.144470   0.244347 -0.5912   0.5551
## ZDemocracy:VControlled Details   0.123201   0.357432  0.3447   0.7307
## ZDemocracy:VENE                  0.289359   0.354954  0.8152   0.4160
```

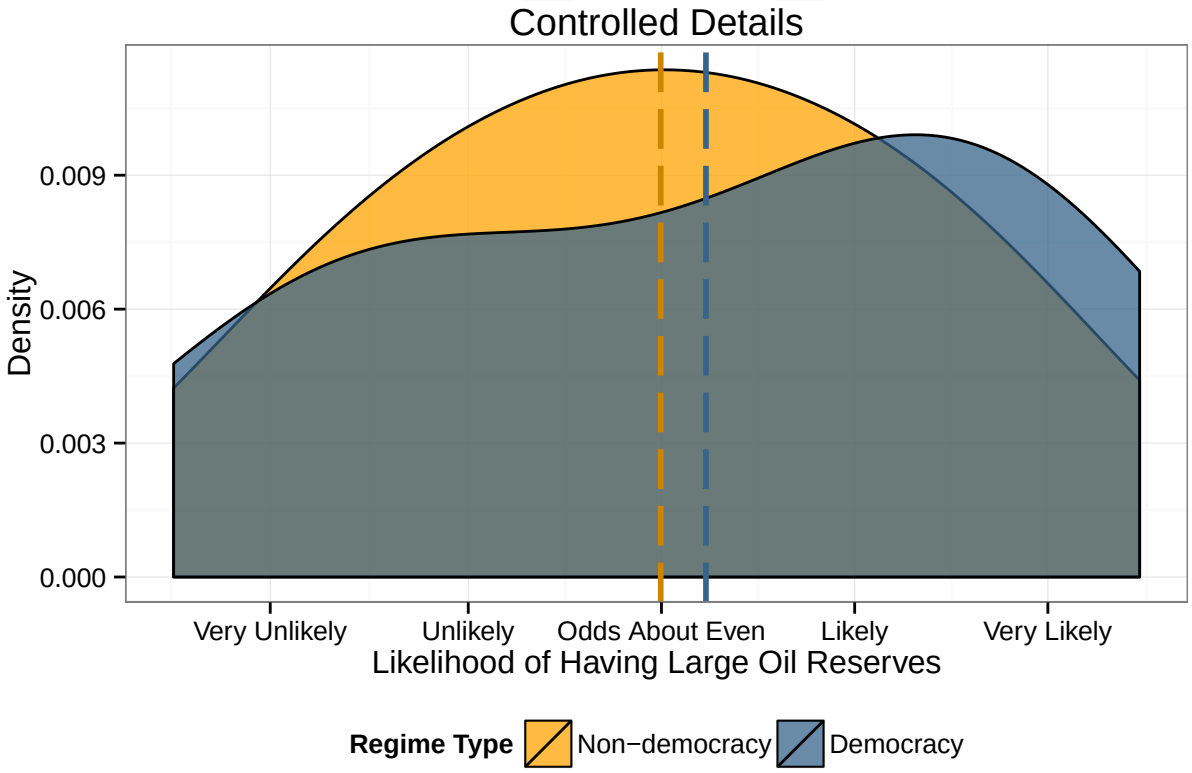


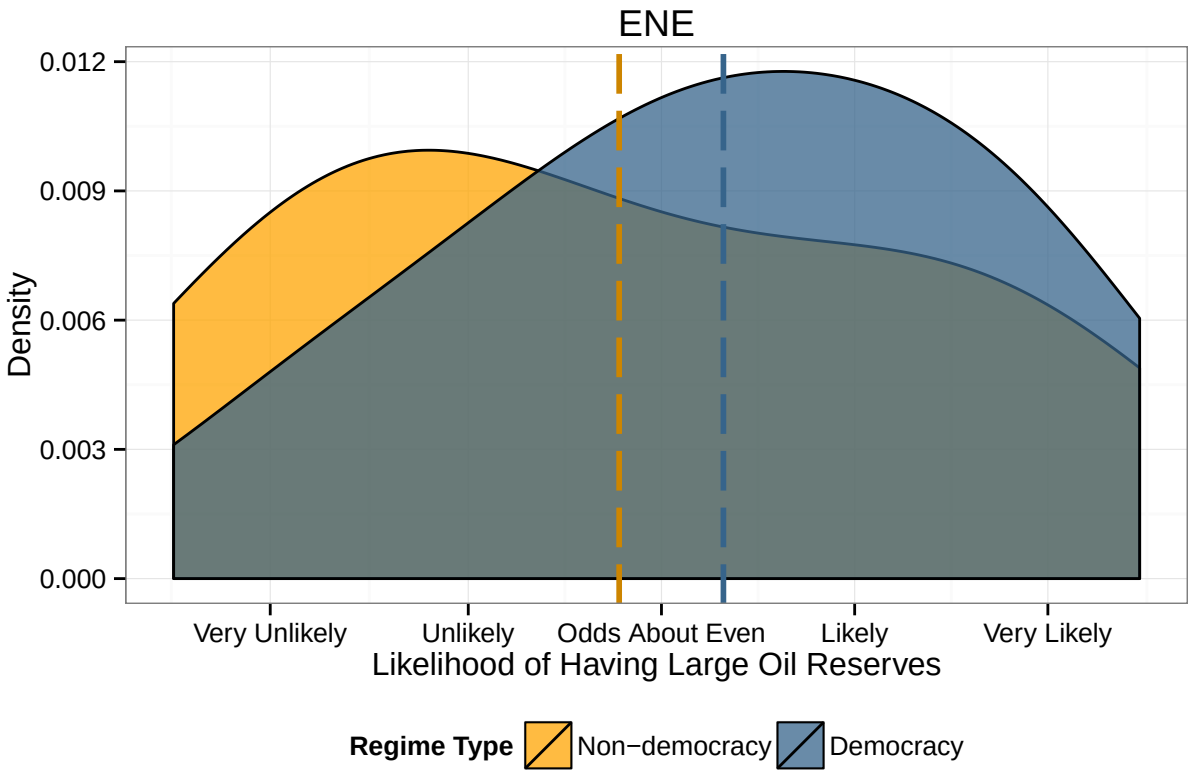



```
## [1] "Placebo Test E: Religion"
##            [,1]      [,2]
## [1,] 0.07482884 0.2541112
## [2,] 0.42048668 0.2466398
## [3,] 0.13978928 0.2490289
##           [,1]     [,2]
## [1,]  1.824337 6.195266
## [2,] 11.521140 6.757816
## [3,]  4.036542 7.190935
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     47.3788     4.1833 11.3257   <2e-16 ***
## ZDemocracy                       1.8243     6.1953  0.2945   0.7687
## VControlled Details             -1.9882     6.4729 -0.3072   0.7591
## VENE                             4.8788     6.4332  0.7584   0.4492
## ZDemocracy:VControlled Details   9.6968     9.1678  1.0577   0.2915
## ZDemocracy:VENE                  2.2122     9.4916  0.2331   0.8160
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    -0.036839   0.171587 -0.2147   0.8302
## ZDemocracy                      0.074829   0.254111  0.2945   0.7687
## VControlled Details            -0.179776   0.248879 -0.7223   0.4710
```

```
## VENE                            -0.034099   0.241015 -0.1415   0.8876
## ZDemocracy:VControlled Details   0.345658   0.354124  0.9761   0.3302
## ZDemocracy:VENE                  0.064960   0.355792  0.1826   0.8553
```

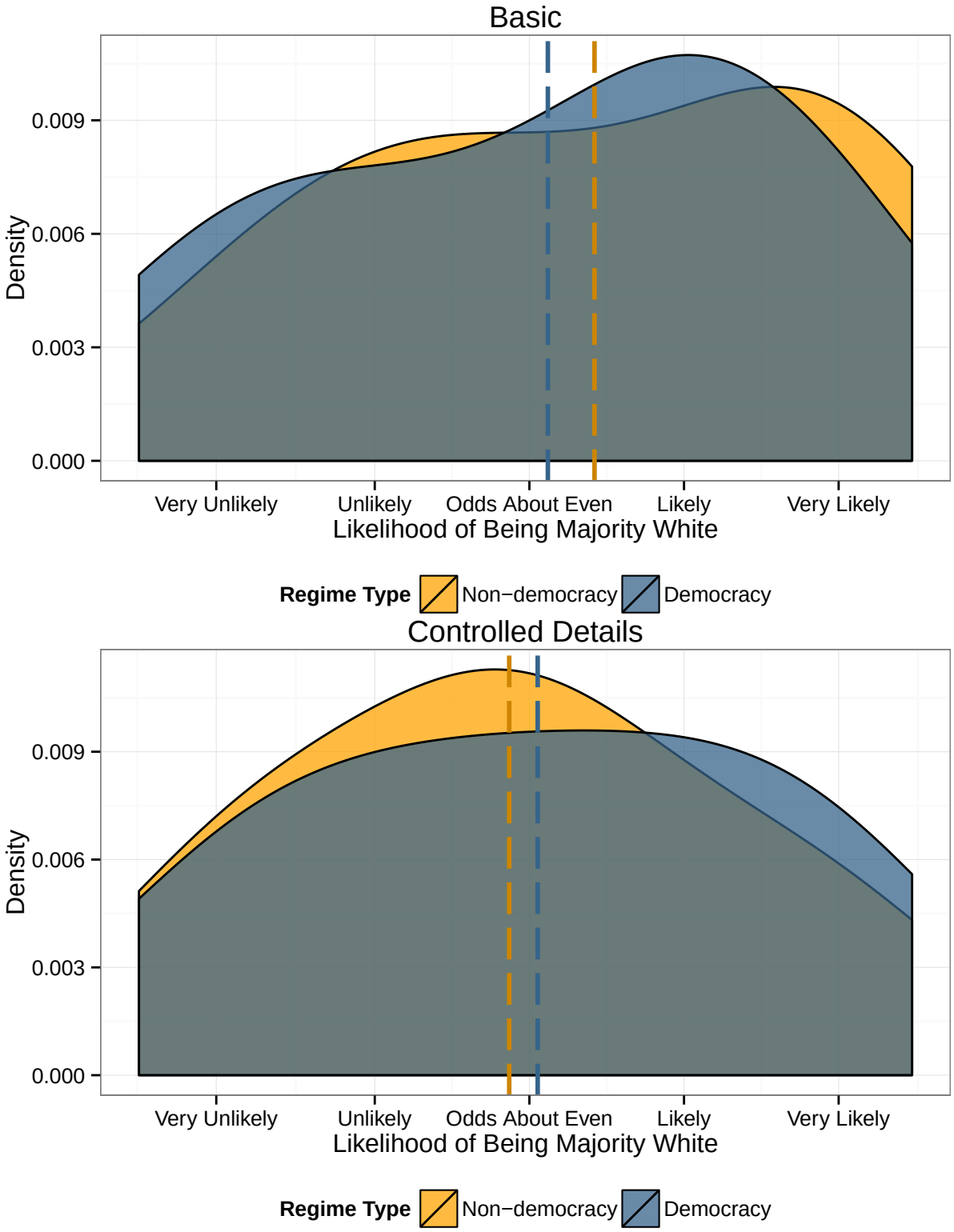


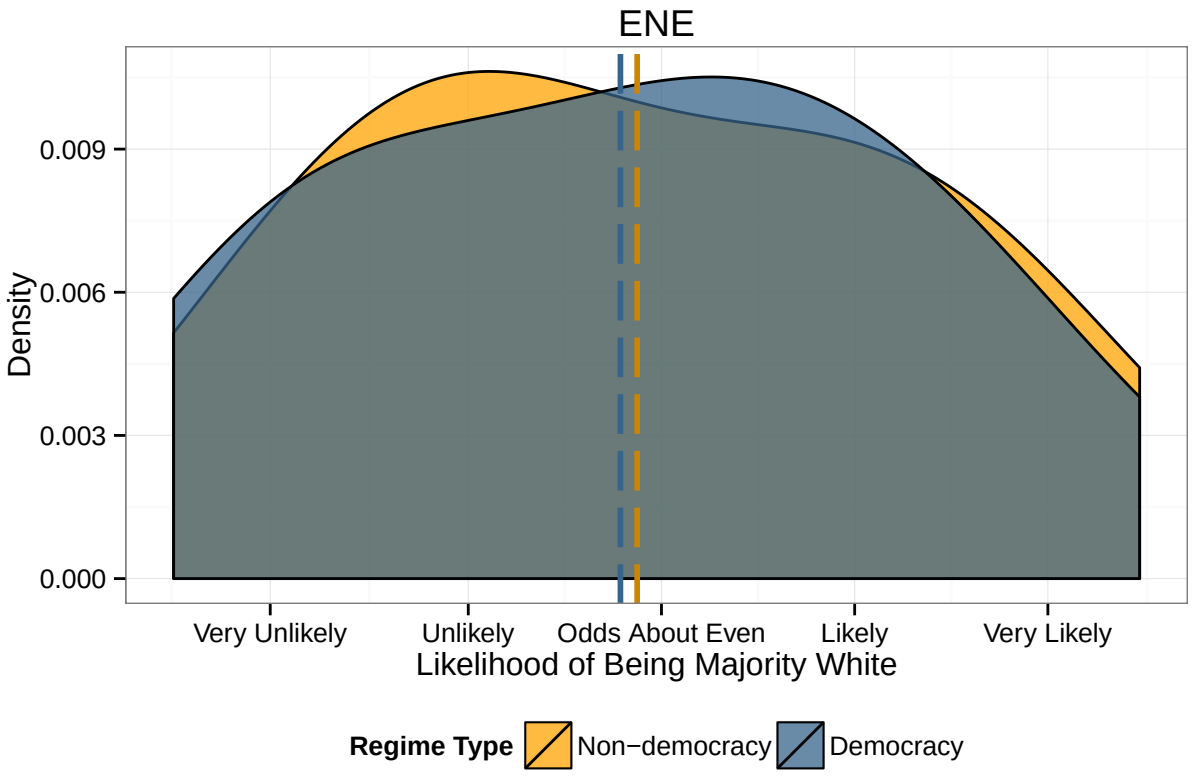





```
## [1] "Placebo Test F: Oil Reserves"
##            [,1]      [,2]
## [1,] -0.4076571 0.2486310
## [2,] -0.1647790 0.2499047
## [3,] -0.3692040 0.2462073
##           [,1]     [,2]
## [1,] 11.766572 7.201284
## [2,]  4.681066 7.238951
## [3,] 10.790553 7.147319
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    45.53030    5.02989  9.0520   <2e-16 ***
## ZDemocracy                     11.76657    7.20128  1.6340   0.1039
## VControlled Details             4.89157    6.92716  0.7061   0.4810
## VENE                            0.59091    7.42386  0.0796   0.9366
## ZDemocracy:VControlled Details -7.08551   10.21082 -0.6939   0.4886
## ZDemocracy:VENE                -0.97602   10.14607 -0.0962   0.9235
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     0.200693   0.173373  1.1576   0.2485
## ZDemocracy                     -0.407657   0.248631 -1.6396   0.1027
## VControlled Details            -0.115807   0.238905 -0.4847   0.6284
```

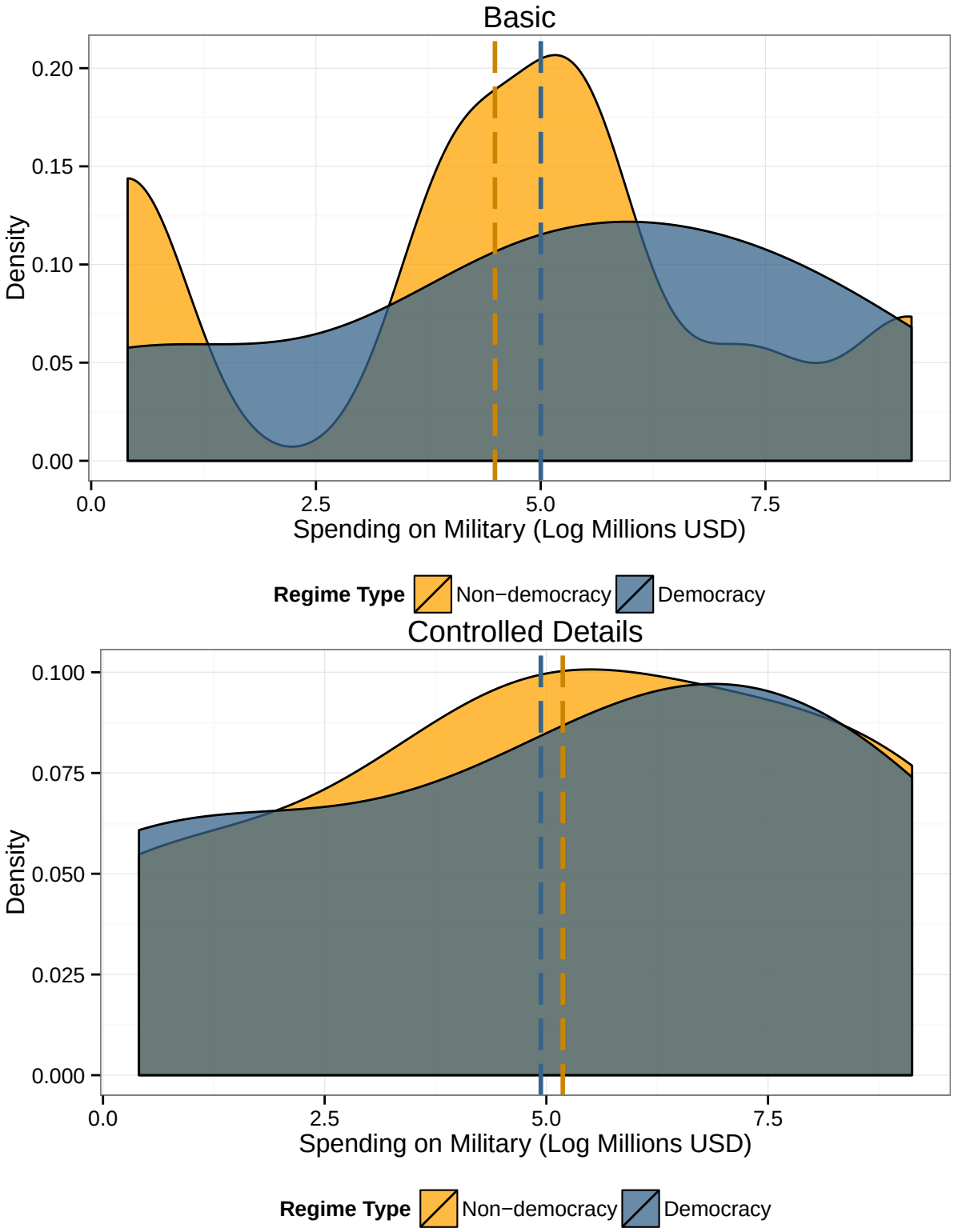
```
## VENE                            -0.013335   0.255691 -0.0522   0.9585
## ZDemocracy:VControlled Details   0.242878   0.352519  0.6890   0.4917
## ZDemocracy:VENE                  0.038453   0.349908  0.1099   0.9126
```

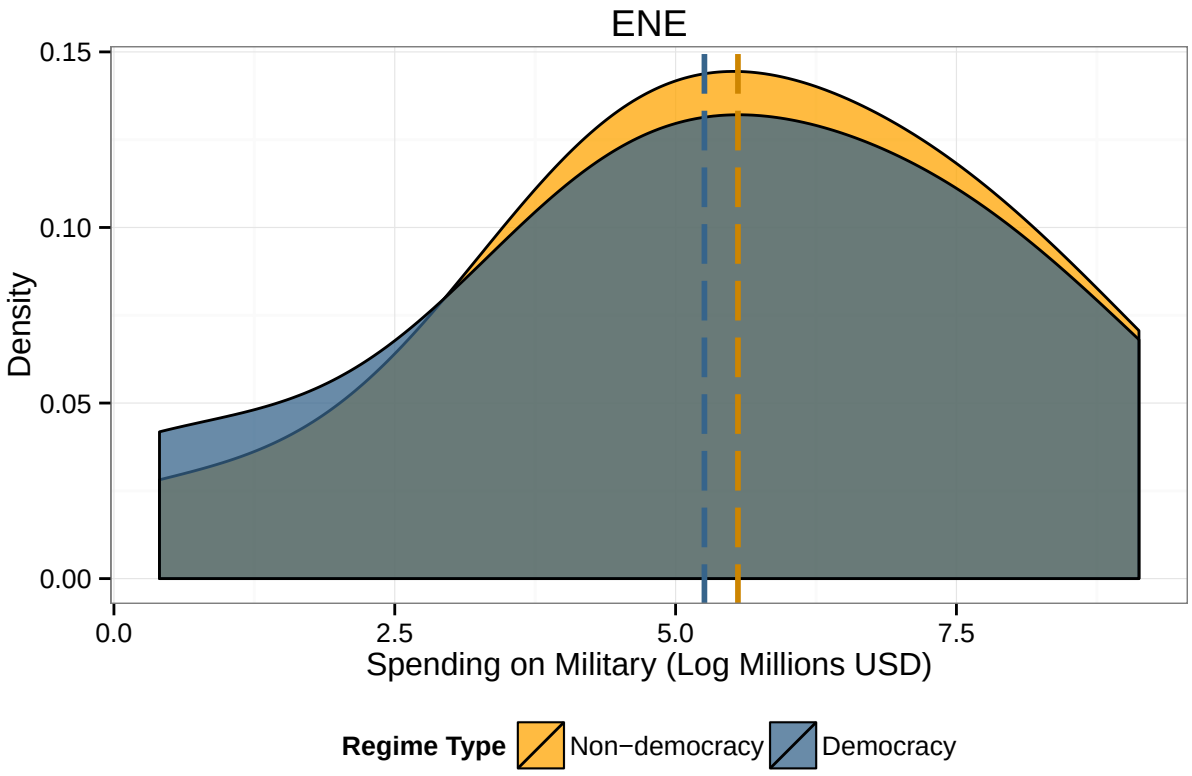





```
## [1] "Placebo Test G: White"
##             [,1]      [,2]
## [1,] -0.20233728 0.2526181
## [2,]  0.12857638 0.2510474
## [3,] -0.06263601 0.2498651
##           [,1]     [,2]
## [1,] -6.033617 7.532971
## [2,]  3.682904 7.190930
## [3,] -1.734848 6.920589
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     58.9242     5.3234 11.0688   <2e-16 ***
## ZDemocracy                      -6.0336     7.5330 -0.8010   0.4241
## VControlled Details            -11.0336     7.3061 -1.5102   0.1326
## VENE                           -10.9394     7.2519 -1.5085   0.1331
## ZDemocracy:VControlled Details   9.7165    10.4142  0.9330   0.3520
## ZDemocracy:VENE                  4.2988    10.2294  0.4202   0.6748
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     0.099612   0.178521  0.5580   0.5775
## ZDemocracy                     -0.202337   0.252618 -0.8010   0.4241
## VControlled Details            -0.165849   0.249779 -0.6640   0.5075
```

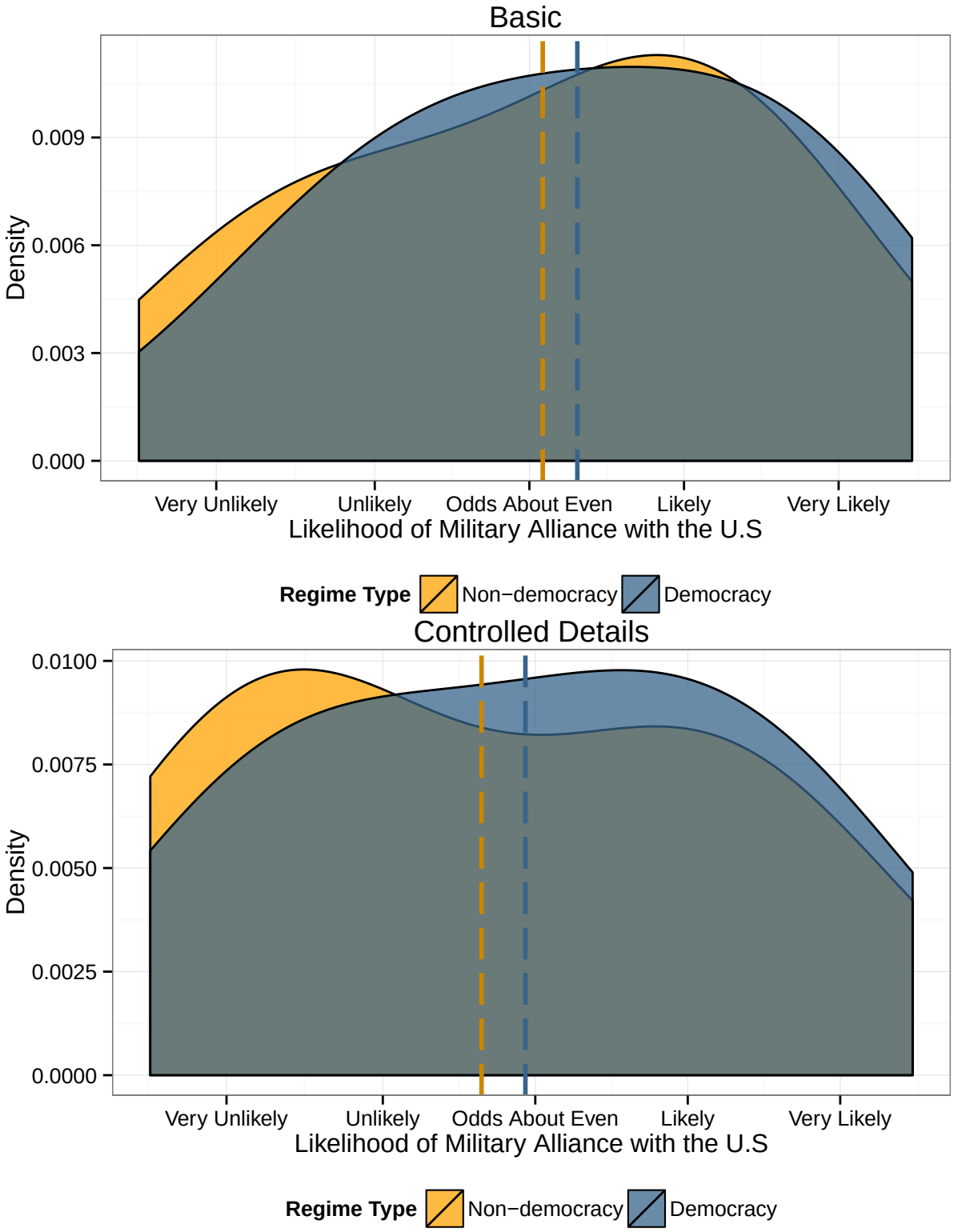
```
## VENE                            -0.067827   0.251956 -0.2692   0.7881
## ZDemocracy:VControlled Details   0.330914   0.356147  0.9291   0.3540
## ZDemocracy:VENE                  0.139701   0.355315  0.3932   0.6946
```

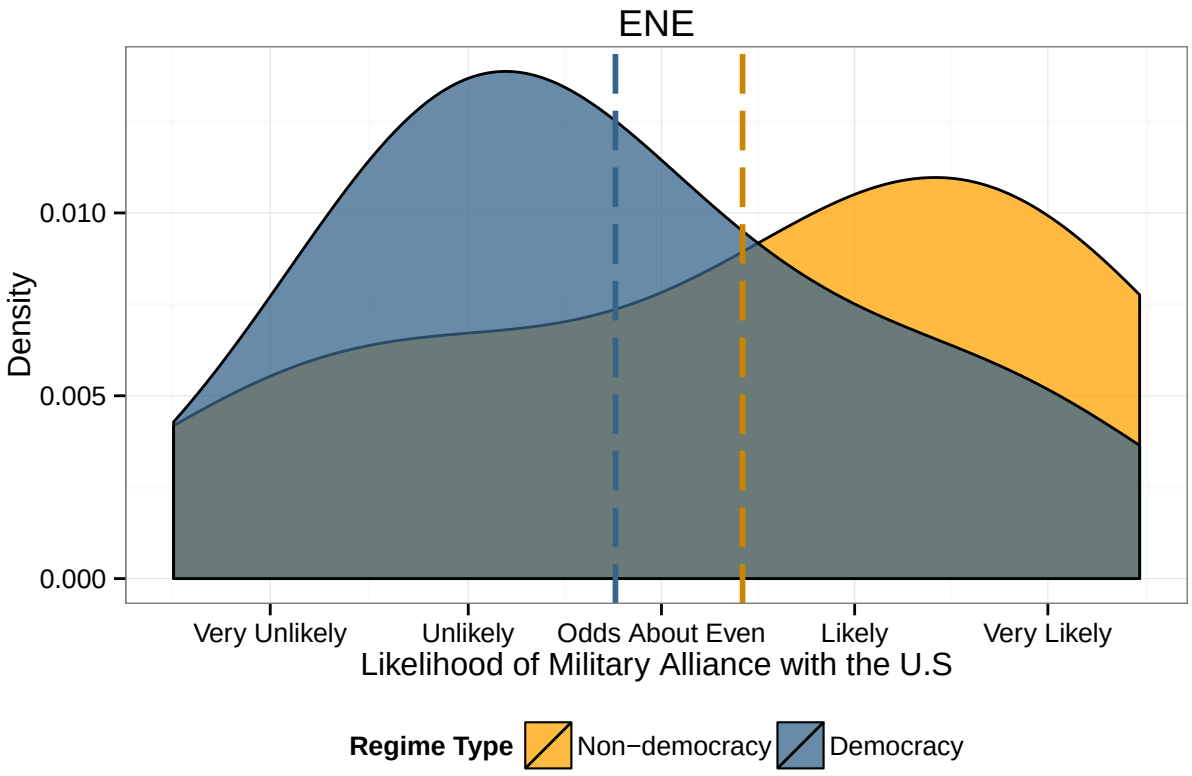





```
## [1] "Placebo Test H: Military Capability"
##             [,1]      [,2]
## [1,]  0.08493721 0.2537556
## [2,] -0.13166803 0.2526287
## [3,] -0.01842706 0.2500269
##            [,1]     [,2]
## [1,]  251.80161 752.2741
## [2,] -480.00092 920.9678
## [3,]  -53.27406 722.8472
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     1331.15     528.50  2.5187  0.01259 *
## ZDemocracy                       251.80     752.27  0.3347  0.73820
## VControlled Details             1206.61     881.11  1.3694  0.17246
## VENE                             261.17     739.69  0.3531  0.72442
## ZDemocracy:VControlled Details  -731.80    1189.16 -0.6154  0.53902
## ZDemocracy:VENE                 -305.08    1043.28 -0.2924  0.77028
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    -0.041815   0.178272 -0.2346   0.8148
## ZDemocracy                      0.084937   0.253756  0.3347   0.7382
## VControlled Details             0.109644   0.263022  0.4169   0.6772
```

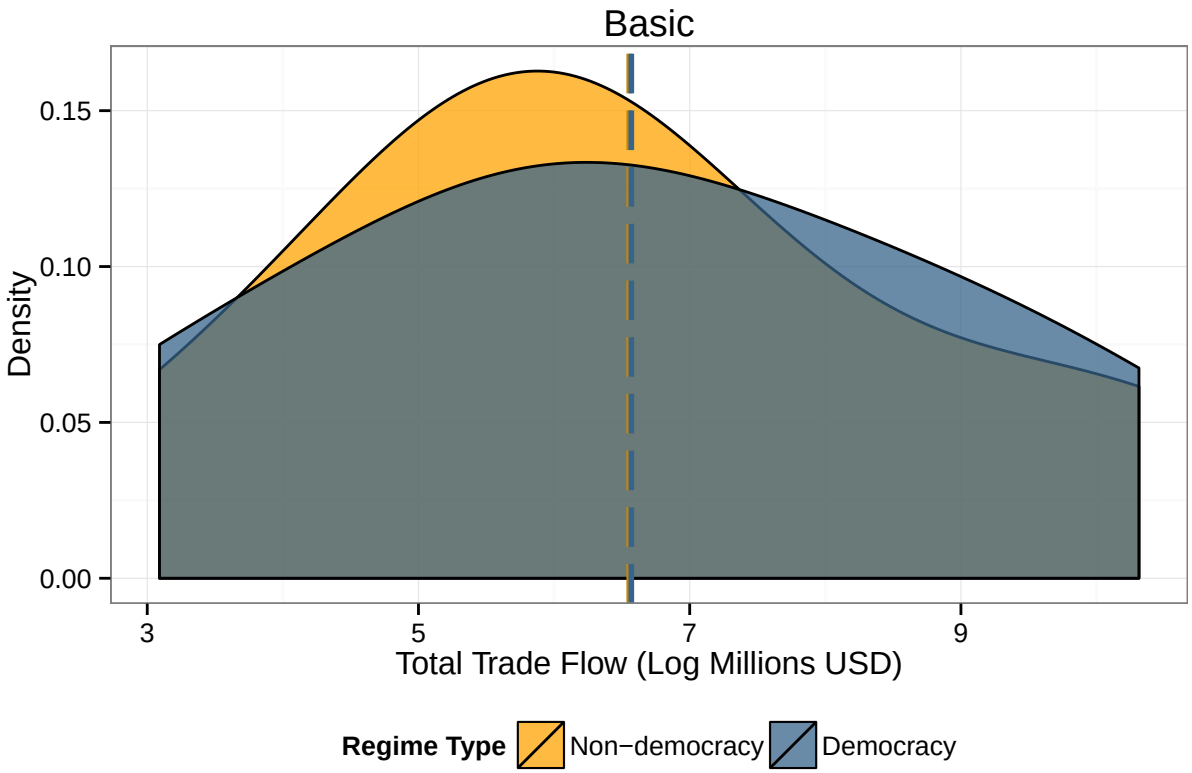
```
## VENE                              0.051166   0.252635  0.2025   0.8397
## ZDemocracy:VControlled Details -0.216605   0.358069 -0.6049   0.5459
## ZDemocracy:VENE                -0.103364   0.356238 -0.2902   0.7720
```

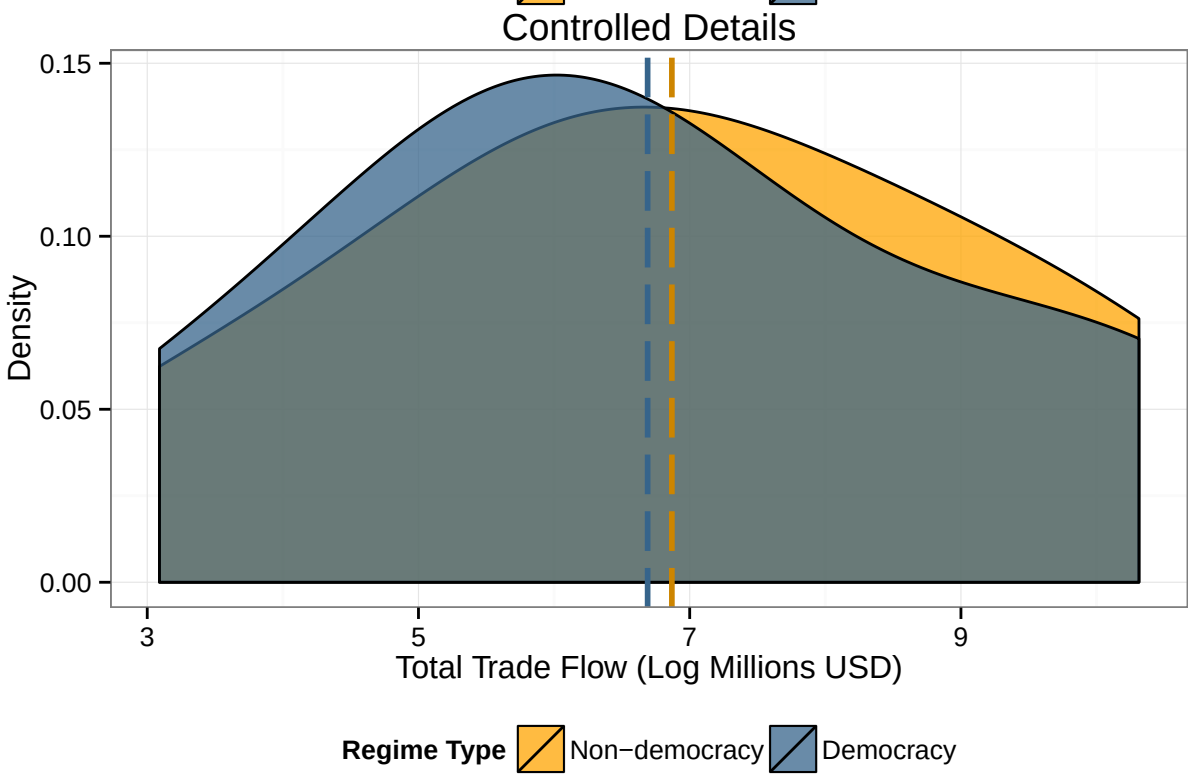


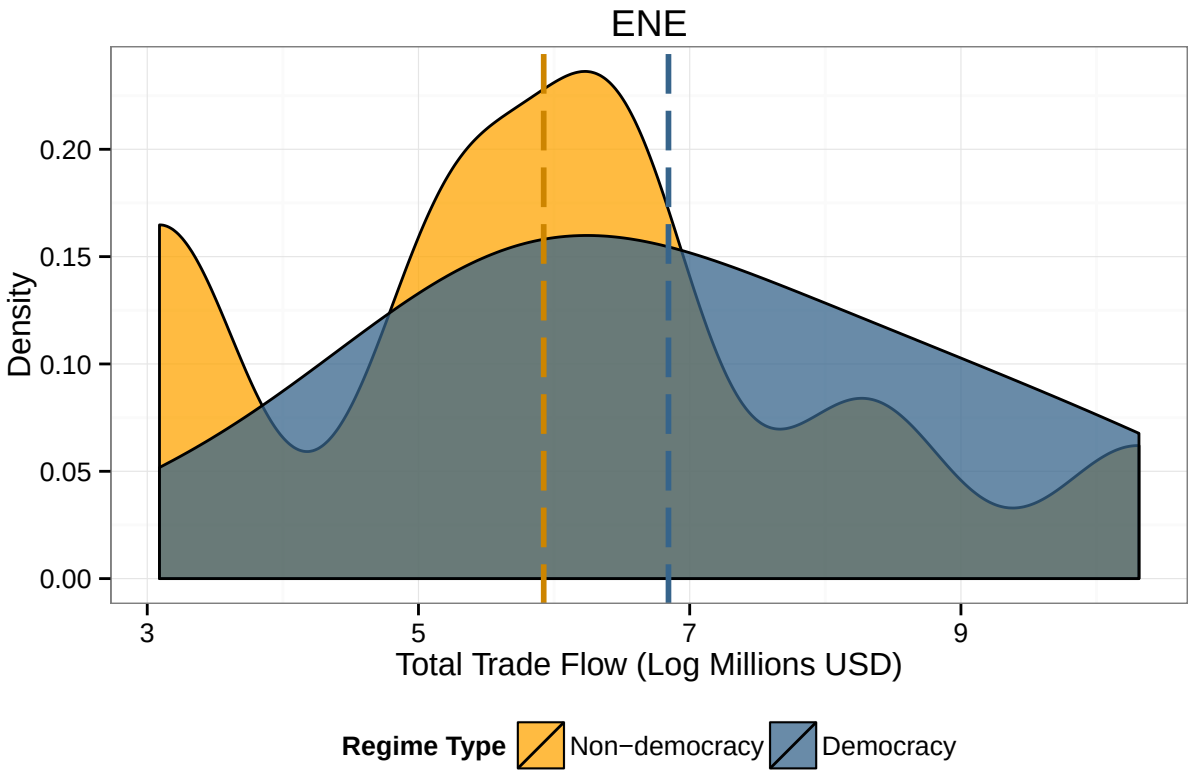



```
## [1] "Placebo Test I: Military Alliance"
##            [,1]      [,2]
## [1,]  0.1652385 0.2529708
## [2,]  0.1931431 0.2511993
## [3,] -0.4574741 0.2440324
##            [,1]     [,2]
## [1,]   4.475852 6.852277
## [2,]   5.752757 7.481958
## [3,] -13.158645 7.019275
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     52.2273     4.8957 10.6680  < 2e-16 ***
## ZDemocracy                       4.4759     6.8523  0.6532  0.51441
## VControlled Details             -8.7741     7.3480 -1.1941  0.23391
## VENE                             6.6667     7.3460  0.9075  0.36527
## ZDemocracy:VControlled Details   1.2769    10.1456  0.1259  0.89998
## ZDemocracy:VENE                -17.6345     9.8094 -1.7977  0.07379 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    -0.081348   0.180738 -0.4501  0.65315
## ZDemocracy                      0.165238   0.252971  0.6532  0.51441
## VControlled Details            -0.018150   0.257896 -0.0704  0.94397
```

```
## VENE                            0.313499   0.262531  1.1941  0.23390
## ZDemocracy:VControlled Details  0.027905   0.356504  0.0783  0.93769
## ZDemocracy:VENE                -0.622713   0.351491 -1.7716  0.07804 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

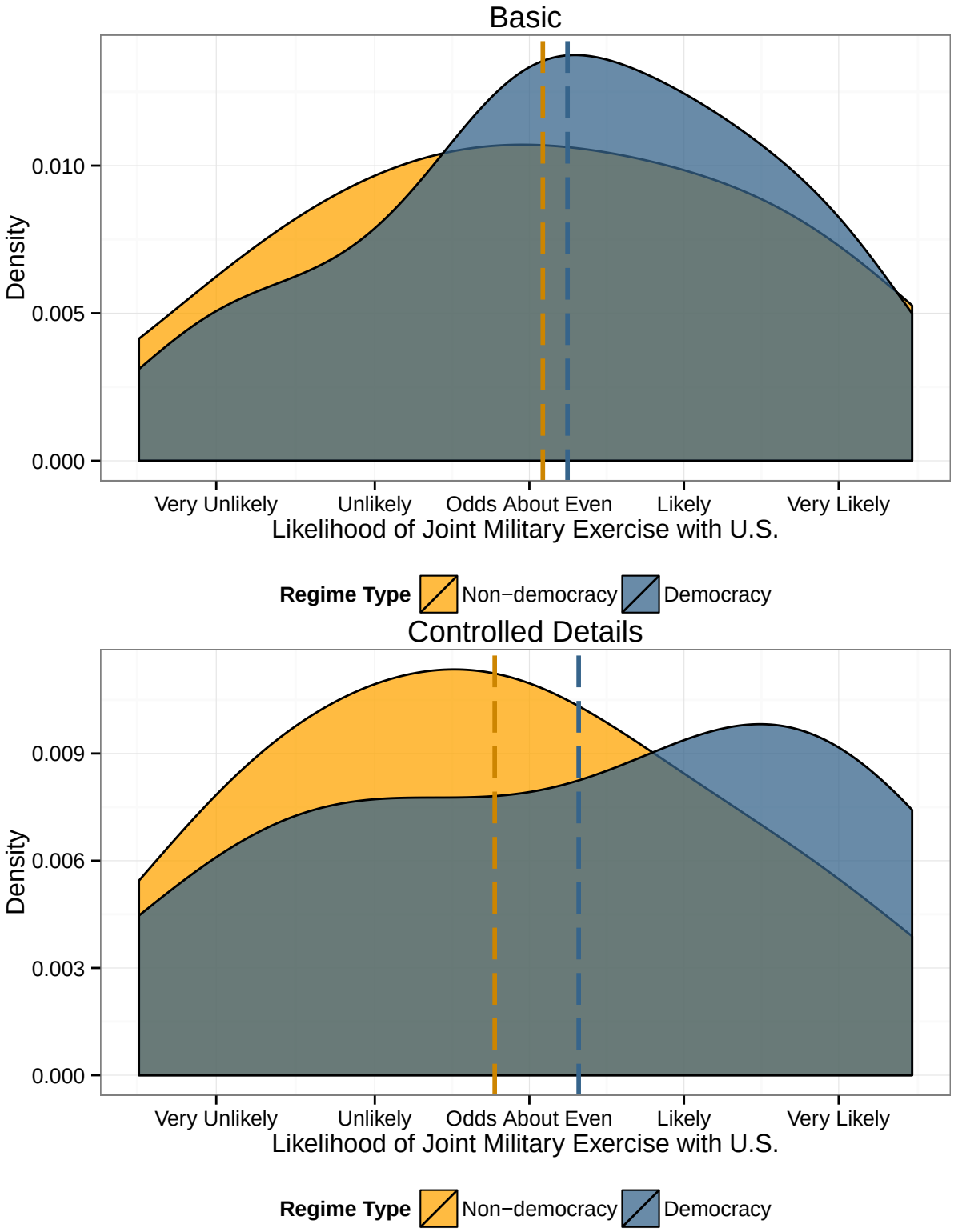


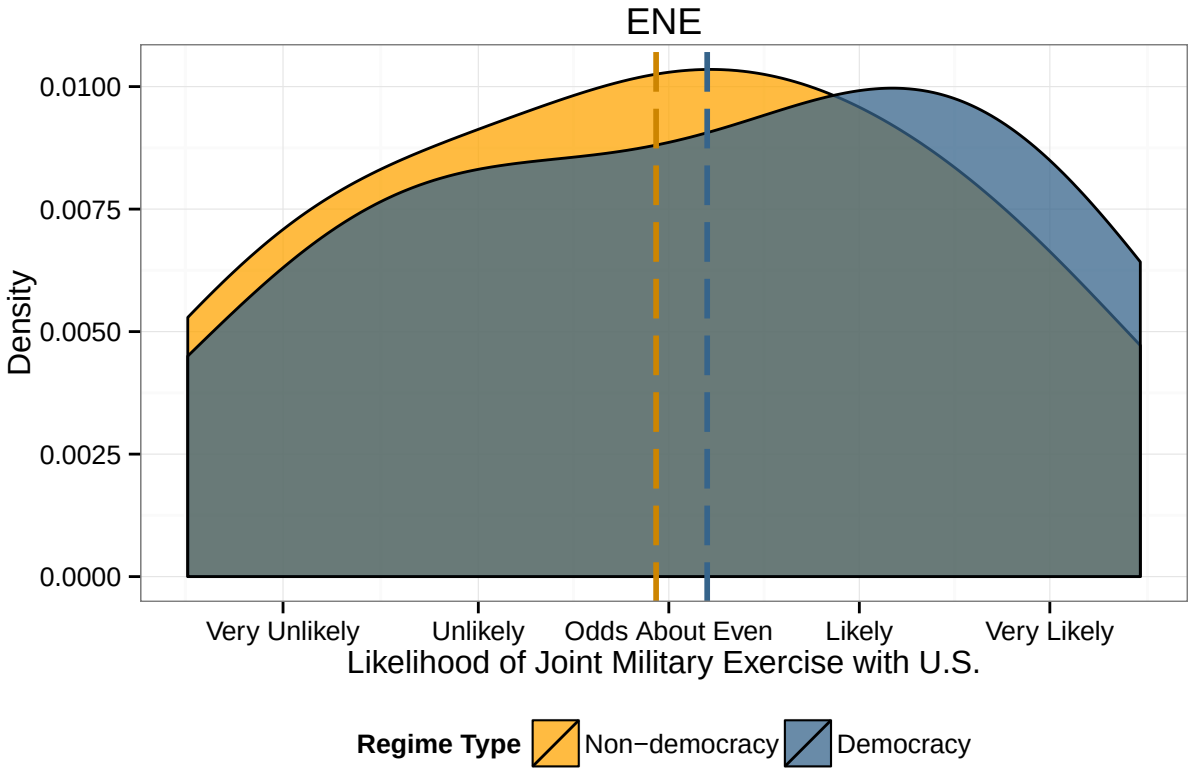





```
## [1] "Placebo Test J: Trade with the U.S."
##             [,1]      [,2]
## [1,] -0.02910450 0.2536858
## [2,]  0.01445917 0.2516975
## [3,]  0.22183651 0.2477203
##           [,1]     [,2]
## [1,] -322.4503 2810.599
## [2,]  169.1992 2945.329
## [3,] 2127.7175 2375.978
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     6093.96    2041.75  2.9847 0.003208 **
## ZDemocracy                      -322.45    2810.60 -0.1147 0.908782
## VControlled Details              645.07    2905.31  0.2220 0.824526
## VENE                           -2624.60    2550.56 -1.0290 0.304760
## ZDemocracy:VControlled Details   491.65    4071.17  0.1208 0.904004
## ZDemocracy:VENE                 2450.17    3680.32  0.6657 0.506371
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    0.014328   0.184289  0.0777   0.9381
## ZDemocracy                    -0.029104   0.253686 -0.1147   0.9088
## VControlled Details           -0.021777   0.255266 -0.0853   0.9321
```

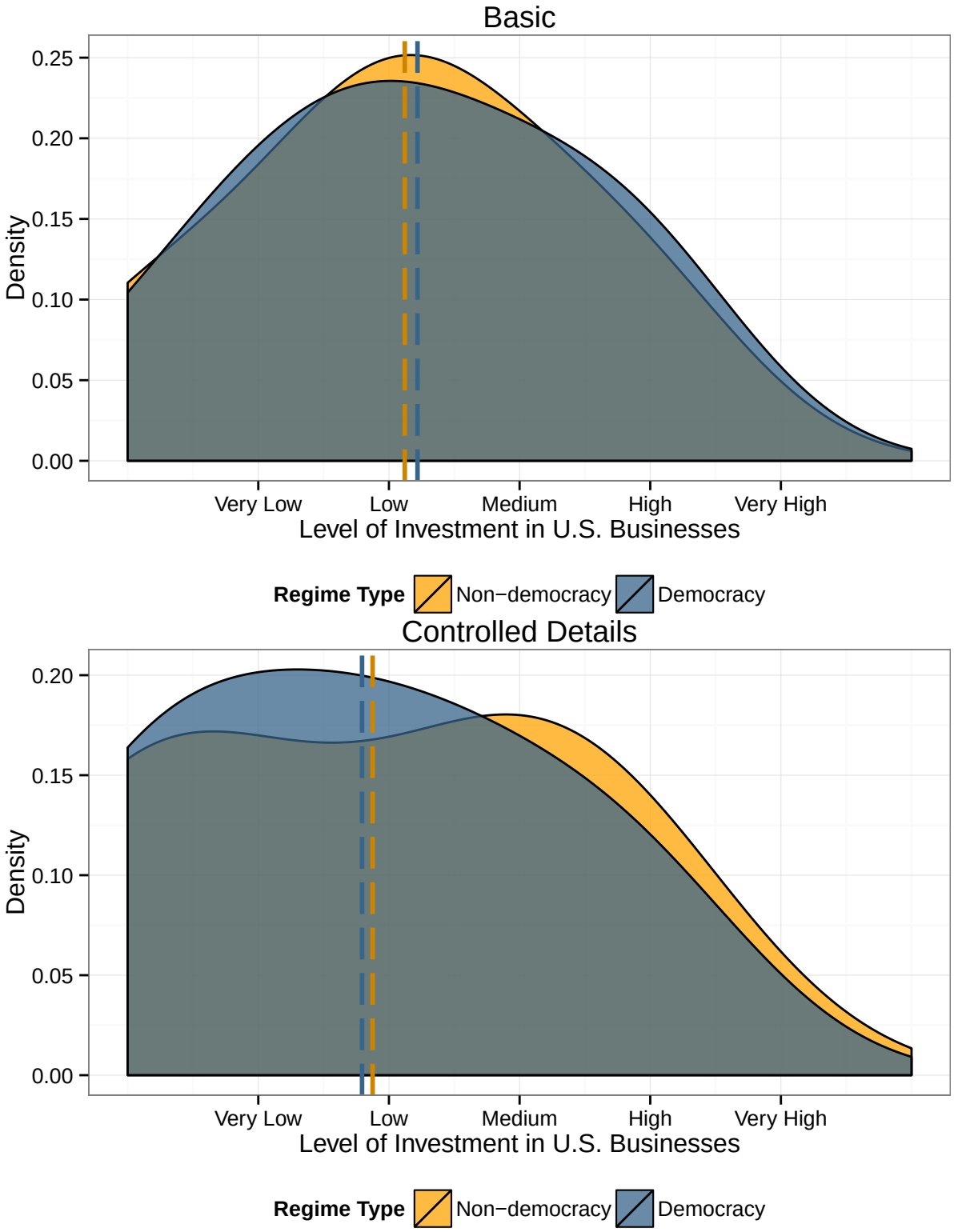
```
## VENE                            -0.126902   0.243643 -0.5209   0.6031
## ZDemocracy:VControlled Details   0.043564   0.357363  0.1219   0.9031
## ZDemocracy:VENE                  0.250941   0.354573  0.7077   0.4800
```

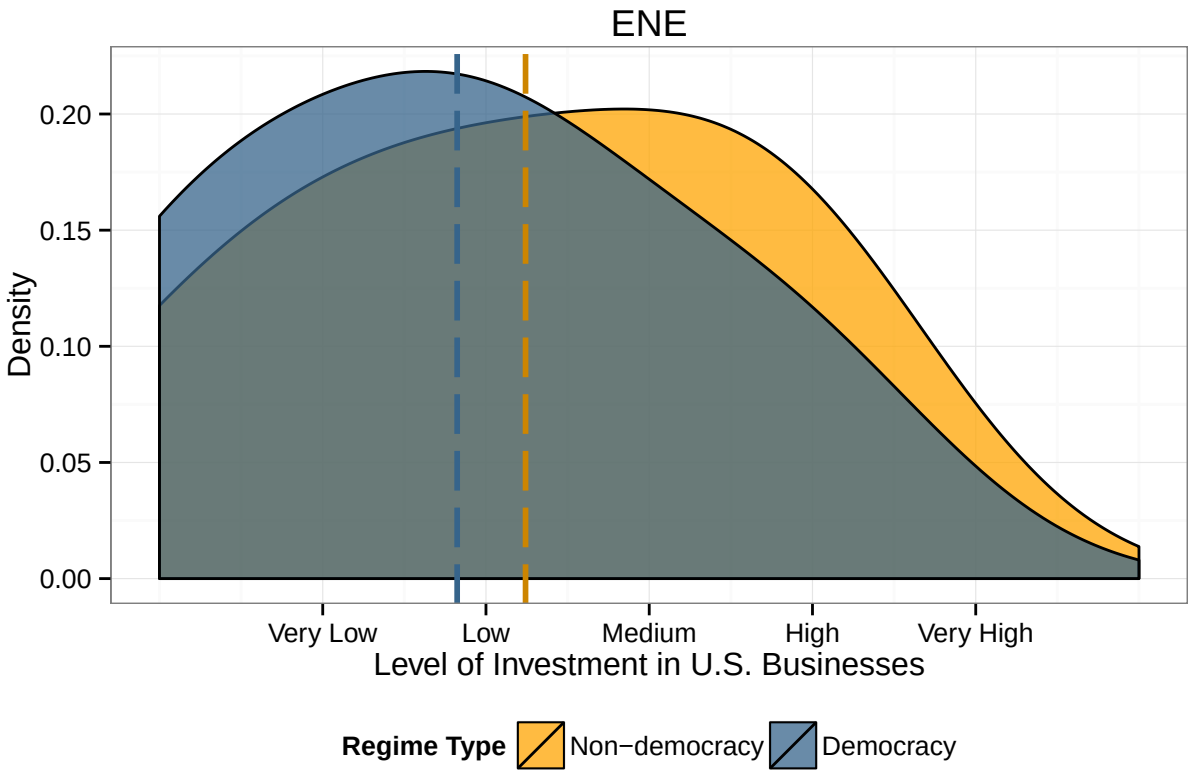





```
## [1] "Placebo Test K: Joint Military Exercise"
##           [,1]      [,2]
## [1,] 0.1206982 0.2532047
## [2,] 0.3636525 0.2467163
## [3,] 0.1827483 0.2487917
##           [,1]     [,2]
## [1,]  3.195076 6.702737
## [2,] 10.866728 7.372421
## [3,]  5.362745 7.300786
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                     52.2424     4.8915 10.6802   <2e-16 ***
## ZDemocracy                       3.1951     6.7027  0.4767   0.6341
## VControlled Details             -6.2268     6.9360 -0.8978   0.3704
## VENE                            -3.0758     7.0686 -0.4351   0.6640
## ZDemocracy:VControlled Details   7.6717     9.9639  0.7699   0.4423
## ZDemocracy:VENE                  2.1677     9.9110  0.2187   0.8271
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    -0.059421   0.184783 -0.3216   0.7481
## ZDemocracy                      0.120698   0.253205  0.4767   0.6341
## VControlled Details            -0.127915   0.247437 -0.5170   0.6058
```

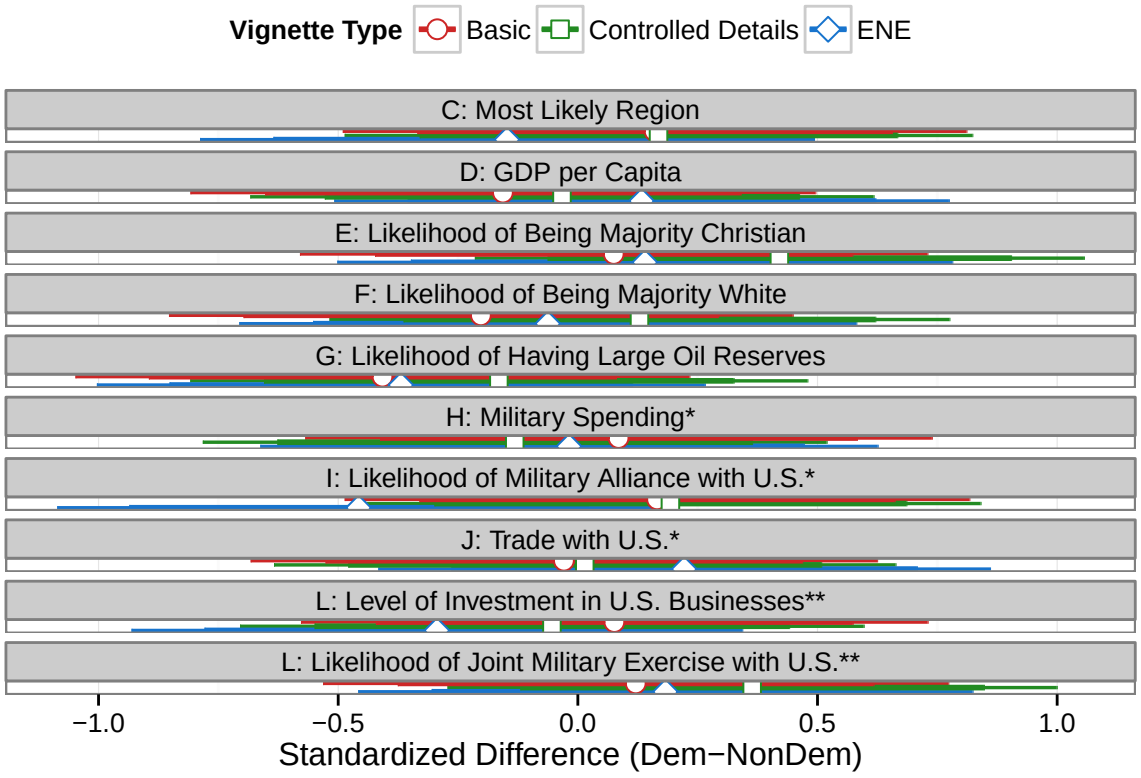
```
## VENE                           -0.033317   0.253737 -0.1313   0.8957
## ZDemocracy:VControlled Details  0.242954   0.353527  0.6872   0.4928
## ZDemocracy:VENE                 0.062050   0.354979  0.1748   0.8614
```






```
## [1] "Placebo Test L: Foreign Direct Investment"
##             [,1]      [,2]
## [1,]  0.07609962 0.2537989
## [2,] -0.05412239 0.2525435
## [3,] -0.29405010 0.2473334
##             [,1]      [,2]
## [1,]  0.09753788 0.3252974
## [2,] -0.08088235 0.3774096
## [3,] -0.41889483 0.3523437
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    2.121212   0.228606  9.2789   <2e-16 ***
## ZDemocracy                     0.097538   0.325297  0.2998   0.7646
## VControlled Details           -0.246212   0.361697 -0.6807   0.4969
## VENE                           0.121212   0.341721  0.3547   0.7232
## ZDemocracy:VControlled Details -0.178420   0.498253 -0.3581   0.7207
## ZDemocracy:VENE               -0.516433   0.479546 -1.0769   0.2829
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)                   -0.037464   0.178360 -0.2100   0.8339
## ZDemocracy                     0.076100   0.253799  0.2998   0.7646
## VControlled Details            0.065346   0.258825  0.2525   0.8009
```

```
## VENE                              0.186684   0.252193  0.7402   0.4601
## ZDemocracy:VControlled Details -0.130222   0.358039 -0.3637   0.7165
## ZDemocracy:VENE                -0.370150   0.354384 -1.0445   0.2976
```




```
## [1] "Joint Test"
## Linear hypothesis test (Chi^2 statistic of a Wald test)
##
## Hypothesis:
## r.c_ZDemocracy = 0
## r.d_ZDemocracy = 0
## r.e_ZDemocracy = 0
## r.f_ZDemocracy = 0
## r.g_ZDemocracy = 0
## r.h_ZDemocracy = 0
## r.i_ZDemocracy = 0
## r.j_ZDemocracy = 0
## r.k_ZDemocracy = 0
## r.l_ZDemocracy = 0
##
## Model 1: restricted model
## Model 2: fitsur
##
##   Res.Df Df  Chisq Pr(>Chisq)
## 1    640
## 2    630 10 5.2278     0.8755
## [1] "Joint Test"
## Linear hypothesis test (Chi^2 statistic of a Wald test)
##
```

```
## Hypothesis:
## r.c_ZDemocracy = 0
## r.d_ZDemocracy = 0
## r.e_ZDemocracy = 0
## r.f_ZDemocracy = 0
## r.g_ZDemocracy = 0
## r.h_ZDemocracy = 0
## r.i_ZDemocracy = 0
## r.j_ZDemocracy = 0
## r.k_ZDemocracy = 0
## r.l_ZDemocracy = 0
##
## Model 1: restricted model
## Model 2: fitsur
##
##   Res.Df Df  Chisq Pr(>Chisq)
## 1    650
## 2    640 10 7.3646     0.6906
## [1] "Joint Test"
## Linear hypothesis test (Chi^2 statistic of a Wald test)
##
## Hypothesis:
## r.c_ZDemocracy = 0
## r.d_ZDemocracy = 0
## r.e_ZDemocracy = 0
## r.f_ZDemocracy = 0
## r.g_ZDemocracy = 0
## r.h_ZDemocracy = 0
## r.i_ZDemocracy = 0
## r.j_ZDemocracy = 0
## r.k_ZDemocracy = 0
## r.l_ZDemocracy = 0
##
## Model 1: restricted model
## Model 2: fitsur
##
##   Res.Df Df  Chisq Pr(>Chisq)
## 1    660
## 2    650 10 9.8588      0.453
## [1] "Treatment Measures"
##            [,1]      [,2]
## [1,] -0.3308519 0.4249397
## [2,]  0.1981326 0.4214983
## [3,] -0.2430484 0.4168359
##            [,1]      [,2]
## [1,] -0.4895833 0.3419870
## [2,] -0.1783088 0.3518564
## [3,]  0.1256684 0.3627364
## [1] "IV"
##           [,1]     [,2]
## [1,] -1.952295 4.374428
## [2,] -1.555698 4.255146
## [3,] -2.320928 4.736104
##           [,1]     [,2]
```

```
## [1,] -1.216442 1.898364
## [2,] -1.363837 3.567633
## [3,] -1.976529 3.641081
## [1] "Balance Tests"
##
## t test of coefficients:
##
##              Estimate Std. Error t value  Pr(>|t|)
## (Intercept)  0.535714   0.097740  5.4810 7.924e-07 ***
## college     -0.076255   0.129010 -0.5911    0.5566
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value  Pr(>|t|)
## (Intercept) 0.469388   0.072780  6.4494 1.802e-08 ***
## democrat    0.093112   0.150986  0.6167    0.5397
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.4234636  0.1603617  2.6407  0.01042 *
## age_num     0.0012510  0.0026925  0.4646  0.64380
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value  Pr(>|t|)
## (Intercept) 0.456522   0.075074  6.0810 7.727e-08 ***
## male        0.122426   0.141177  0.8672    0.3891
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##              Estimate Std. Error t value  Pr(>|t|)
## (Intercept)  0.527931   0.126370  4.1777 9.237e-05 ***
## poliid_1    -0.011577   0.036090 -0.3208    0.7494
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## Call:
##    felm(formula = as.numeric(Z) - 1 ~ college + democrat + age_num +      male + poliid_1, data = d[
##
## Residuals:
```

```
##     Min      1Q  Median      3Q     Max
## -0.6265 -0.4652 -0.3596  0.4945  0.6522
##
## Coefficients:
##              Estimate Robust s.e t value Pr(>|t|)
## (Intercept)  0.427726   0.216415   1.976   0.0528 .
## college     -0.072347   0.133414  -0.542   0.5897
## democrat     0.084590   0.147556   0.573   0.5686
## age_num      0.001204   0.002731   0.441   0.6610
## male         0.119467   0.138189   0.865   0.3908
## poliid_1    -0.005272   0.036820  -0.143   0.8866
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5174 on 59 degrees of freedom
## Multiple R-squared(full model): 0.02765   Adjusted R-squared: -0.05476
## Multiple R-squared(proj model): 0.02765   Adjusted R-squared: -0.05476
## F-statistic(full model, *iid*):0.3355 on 5 and 59 DF, p-value: 0.8894
## F-statistic(proj model): 0.389 on 5 and 59 DF, p-value: 0.8544
##
##
## [1] "Balance Tests"
##
## t test of coefficients:
##
##             Estimate Std. Error t value  Pr(>|t|)
## (Intercept) 0.483871   0.092748  5.2171 2.093e-06 ***
## college     0.058986   0.126948  0.4646    0.6438
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value  Pr(>|t|)
## (Intercept) 0.510638   0.074501  6.8541 3.352e-09 ***
## democrat    0.015677   0.142022  0.1104    0.9124
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.431482   0.160594  2.6868 0.009181 **
## age_num     0.001471   0.002573  0.5717 0.569520
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value  Pr(>|t|)
## (Intercept) 0.512821   0.082144  6.2429 3.876e-08 ***
```

```
## male        0.005698   0.129302  0.0441     0.965
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##              Estimate Std. Error t value  Pr(>|t|)
## (Intercept)  0.563989   0.122915  4.5884 2.137e-05 ***
## poliid_1    -0.016362   0.035270 -0.4639    0.6443
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## Call:
##    felm(formula = as.numeric(Z) - 1 ~ college + democrat + age_num +      male + poliid_1, data = d[
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6033 -0.5022  0.3609  0.4750  0.5922
##
## Coefficients:
##               Estimate Robust s.e t value Pr(>|t|)
## (Intercept)  0.4501921  0.2176995   2.068    0.043 *
## college      0.0492732  0.1369000   0.360    0.720
## democrat     0.0008204  0.1490234   0.006    0.996
## age_num      0.0014958  0.0027227   0.549    0.585
## male         0.0237794  0.1398577   0.170    0.866
## poliid_1    -0.0188332  0.0356610  -0.528    0.599
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5209 on 60 degrees of freedom
## Multiple R-squared(full model): 0.0123   Adjusted R-squared: -0.07001
## Multiple R-squared(proj model): 0.0123   Adjusted R-squared: -0.07001
## F-statistic(full model, *iid*):0.1494 on 5 and 60 DF, p-value: 0.9795
## F-statistic(proj model): 0.1609 on 5 and 60 DF, p-value: 0.9758
##
##
## [1] "Balance Tests"
##
## t test of coefficients:
##
##              Estimate Std. Error t value  Pr(>|t|)
## (Intercept)  0.562500   0.090524  6.2138 4.138e-08 ***
## college     -0.105357   0.125332 -0.8406    0.4036
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.442308   0.070225  6.2984 2.95e-08 ***
```

```
## democrat    0.291026   0.141059  2.0632   0.0431 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.4235289  0.1795327  2.3591  0.02134 *
## age_num     0.0013875  0.0027748  0.5000  0.61873
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value  Pr(>|t|)
## (Intercept) 0.487179   0.082144  5.9308 1.273e-07 ***
## male        0.048535   0.127675  0.3801    0.7051
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## t test of coefficients:
##
##             Estimate Std. Error t value  Pr(>|t|)
## (Intercept) 0.461395   0.118568  3.8914 0.0002373 ***
## poliid_1    0.015748   0.034413  0.4576 0.6487654
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## Call:
##    felm(formula = as.numeric(Z) - 1 ~ college + democrat + age_num +      male + poliid_1, data = d[
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.8156 -0.4422  0.1260  0.4905  0.6945
##
## Coefficients:
##              Estimate Robust s.e t value Pr(>|t|)
## (Intercept)  0.323189   0.212291   1.522   0.1331
## college     -0.093117   0.124382  -0.749   0.4570
## democrat     0.302628   0.136783   2.212   0.0307 *
## age_num      0.001286   0.002910   0.442   0.6600
## male         0.040964   0.127336   0.322   0.7488
## poliid_1     0.024005   0.034658   0.693   0.4912
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.502 on 61 degrees of freedom
## Multiple R-squared(full model): 0.08189   Adjusted R-squared: 0.006631
## Multiple R-squared(proj model): 0.08189   Adjusted R-squared: 0.006631
## F-statistic(full model, *iid*):1.088 on 5 and 61 DF, p-value: 0.3761
```

```
## F-statistic(proj model): 1.299 on 5 and 61 DF, p-value: 0.2762
```

```
## [1] "All the code ran without error."
```