```
------------------------------------------------------------------------------------------
> --------
      name:  <unnamed>
       log:  C:\Users\bomim\Dropbox\6TStriangles\fpa\data\lee-multiplerivals.log
  log type:  text
 opened on:   7 Aug 2025, 13:23:09

. 
. * Experimental analysis
. use "japancleaned2.dta", clear

. 
. * Table 3
. ttest pmapp1recoded, by(polconf)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       1 |     266    3.759398    .0533462    .8700499    3.654362    3.864435
       2 |     260    3.326923    .0657609    1.060363    3.197429    3.456417
---------+--------------------------------------------------------------------
combined |     526    3.545627    .0432437    .9917805    3.460675    3.630579
---------+--------------------------------------------------------------------
    diff |            .4324754    .0844889                .2664968     .598454
------------------------------------------------------------------------------
    diff = mean(1) - mean(2)                                      t =   5.1187
Ho: diff = 0                                     degrees of freedom =      524

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000

. 
. * Table 4
. ttest pmapp1recoded, by(polcoop)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       1 |     265    3.377358    .0655129    1.066473    3.248364    3.506353
       2 |     260    3.042308    .0636172    1.025796    2.917035     3.16758
---------+--------------------------------------------------------------------
combined |     525    3.211429    .0462136    1.058888    3.120642    3.302215
---------+--------------------------------------------------------------------
    diff |            .3350508    .0913525                .155588    .5145136
------------------------------------------------------------------------------
    diff = mean(1) - mean(2)                                      t =   3.6677
Ho: diff = 0                                     degrees of freedom =      523

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9999         Pr(|T| > |t|) = 0.0003          Pr(T > t) = 0.0001

. 
. * (Under Table 4) Competence ratings
. ttest pmcomp1recoded, by(polconf)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       1 |     241    3.360996    .0599091    .9300389    3.242981    3.479011
       2 |     228    3.350877    .0624626    .9431642    3.227797    3.473958
---------+--------------------------------------------------------------------
combined |     469    3.356077    .0431953    .9354545    3.271196    3.440957
---------+--------------------------------------------------------------------
    diff |            .0101187     .086515               -.1598882    .1801255
------------------------------------------------------------------------------
    diff = mean(1) - mean(2)                                      t =   0.1170
Ho: diff = 0                                     degrees of freedom =      467
```

```
    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5465         Pr(|T| > |t|) = 0.9069          Pr(T > t) = 0.4535

. ttest pmcomp1recoded, by(polcoop)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       1 |     249    3.204819    .0621538    .9807712    3.082403    3.327236
       2 |     236    3.072034    .0591098    .9080618    2.955581    3.188487
---------+--------------------------------------------------------------------
combined |     485    3.140206    .0430214    .9474476    3.055674    3.224738
---------+--------------------------------------------------------------------
    diff |            .1327854    .0859506               -.036098    .3016687
------------------------------------------------------------------------------
    diff = mean(1) - mean(2)                                      t =   1.5449
Ho: diff = 0                     degrees of freedom =      483

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9385         Pr(|T| > |t|) = 0.1230          Pr(T > t) = 0.0615

.
. * Table 5
. ** Model 1
. oprobit pmapp1recoded male college age fulltime cons ldp i.polconf

Iteration 0:   log likelihood = -712.40759
Iteration 1:   log likelihood = -658.12215
Iteration 2:   log likelihood = -657.91195
Iteration 3:   log likelihood = -657.91186
Iteration 4:   log likelihood = -657.91186

Ordered probit regression                       Number of obs     =        526
                                                LR chi2(7)        =     108.99
                                                Prob > chi2       =     0.0000
Log likelihood = -657.91186                     Pseudo R2         =     0.0765

------------------------------------------------------------------------------
pmapp1recoded |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
         male |   .1496807   .1018777     1.47   0.142     -.049996    .3493574
      college |  -.0300008   .0960758    -0.31   0.755    -.2183058    .1583042
          age |   .0023782   .0145414     0.16   0.870    -.0261225    .0308789
     fulltime |  -.2243977   .1046842    -2.14   0.032     -.429575   -.0192205
         cons |   .4657438   .0662051     7.03   0.000     .3359841    .5955034
          ldp |   .2873534   .1272573     2.26   0.024     .0379336    .5367732
    2.polconf |  -.4507947      .0959    -4.70   0.000    -.6387552   -.2628342
--------------+---------------------------------------------------------------
        /cut1 |  -1.716619   .1772821                     -2.064086   -1.369153
        /cut2 |  -1.215189   .1624666                     -1.533618   -.8967604
        /cut3 |   -.052802   .1531755                     -.3530205    .2474164
        /cut4 |   1.250783   .1638314                      .9296792    1.571886
------------------------------------------------------------------------------

. ** Model 2
. oprobit pmapp1recoded male college age fulltime cons ldp i.polcoop

Iteration 0:   log likelihood = -744.74213
Iteration 1:   log likelihood = -725.30998
Iteration 2:   log likelihood = -725.29552
Iteration 3:   log likelihood = -725.29551

Ordered probit regression                       Number of obs     =        525
                                                LR chi2(7)        =      38.89
                                                Prob > chi2       =     0.0000
Log likelihood = -725.29551                     Pseudo R2         =     0.0261
```

```
------------------------------------------------------------------------------
pmapp1recoded |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
         male |    .049814   .0961456     0.52   0.604    -.1386278    .2382558
      college |   .0915355   .0952506     0.96   0.337    -.0951522    .2782232
          age |   .0008622   .0143696     0.06   0.952    -.0273016     .029026
     fulltime |  -.1132393   .1049035    -1.08   0.280    -.3188464    .0923679
         cons |   .1934663   .0627992     3.08   0.002     .0703822    .3165505
          ldp |   .2465613    .116841     2.11   0.035     .0175572    .4755654
    2.polcoop |   -.367275   .0933361    -3.93   0.000    -.5502105   -.1843395
--------------+---------------------------------------------------------------
        /cut1 |  -1.346903   .1614575                     -1.663354   -1.030452
        /cut2 |  -.7644213   .1517776                       -1.0619   -.4669426
        /cut3 |   .1889283   .1477869                     -.1007286    .4785852
        /cut4 |   1.531923   .1658008                       1.20696    1.856887
------------------------------------------------------------------------------

. ** Model 3
. oprobit pmcomp1recoded male college age fulltime cons ldp i.polconf

Iteration 0:   log likelihood = -613.79511
Iteration 1:   log likelihood = -573.96218
Iteration 2:   log likelihood = -573.85382
Iteration 3:   log likelihood =  -573.8538

Ordered probit regression                       Number of obs     =        469
                                                LR chi2(7)        =      79.88
                                                Prob > chi2       =     0.0000
Log likelihood =  -573.8538                     Pseudo R2         =     0.0651

------------------------------------------------------------------------------
pmcomp1recoded |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------+--------------------------------------------------------------
          male |   .1479616   .1063987     1.39   0.164    -.0605761    .3564993
       college |   .0367058   .1009506     0.36   0.716    -.1611538    .2345653
           age |  -.0278735   .0156231    -1.78   0.074    -.0584943    .0027473
      fulltime |   -.185027    .109919    -1.68   0.092    -.4004643    .0304102
          cons |   .3955549   .0676445     5.85   0.000     .2629742    .5281356
           ldp |    .538101   .1305798     4.12   0.000     .2821693    .7940327
     2.polconf |   .0549334   .1002815     0.55   0.584    -.1416148    .2514817
---------------+--------------------------------------------------------------
         /cut1 |  -1.608663    .188041                     -1.977217   -1.240109
         /cut2 |    -1.0224   .1740453                     -1.363523   -.6812779
         /cut3 |   .3983054    .169336                      .0664129    .7301979
         /cut4 |   1.635003   .1830359                      1.276259    1.993746
------------------------------------------------------------------------------

. ** Model 4
. oprobit pmcomp1recoded male college age fulltime cons ldp i.polcoop

Iteration 0:   log likelihood = -633.32611
Iteration 1:   log likelihood = -621.99892
Iteration 2:   log likelihood = -621.99432
Iteration 3:   log likelihood = -621.99432

Ordered probit regression                       Number of obs     =        485
                                                LR chi2(7)        =      22.66
                                                Prob > chi2       =     0.0020
Log likelihood = -621.99432                     Pseudo R2         =     0.0179

------------------------------------------------------------------------------
pmcomp1recoded |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------+--------------------------------------------------------------
          male |   .0424174   .1008769     0.42   0.674    -.1552976    .2401324
       college |   .2646056   .1006829     2.63   0.009     .0672708    .4619404
           age |  -.0439094   .0151417    -2.90   0.004    -.0735866   -.0142321
      fulltime |   -.188527   .1107713    -1.70   0.089    -.4056347    .0285806
          cons |   .0119126   .0646661     0.18   0.854    -.1148306    .1386558
           ldp |   .2711629   .1220072     2.22   0.026     .0320333    .5102925
     2.polcoop |  -.1740125   .0974575    -1.79   0.074    -.3650256    .0170006
---------------+--------------------------------------------------------------
         /cut1 |  -1.722247   .1729294                     -2.061183   -1.383312
```

```
         /cut2 |  -1.181493   .1628401                      -1.500654    -.862332
         /cut3 |   .1753931   .1562513                      -.1308538      .48164
         /cut4 |   1.377049   .1717174                        1.04049    1.713609
------------------------------------------------------------------------------

.
. * Figure 2
. gen polconf2=.
(1,120 missing values generated)

. replace polconf2=0 if polconf==2
(280 real changes made)

. replace polconf2=1 if polconf==1
(280 real changes made)

.
. oprobit pmapp1recoded male college age fulltime cons ldp polconf2

Iteration 0:   log likelihood = -712.40759
Iteration 1:   log likelihood = -658.12215
Iteration 2:   log likelihood = -657.91195
Iteration 3:   log likelihood = -657.91186
Iteration 4:   log likelihood = -657.91186

Ordered probit regression                       Number of obs     =        526
                                                LR chi2(7)        =     108.99
                                                Prob > chi2       =     0.0000
Log likelihood = -657.91186                     Pseudo R2         =     0.0765

------------------------------------------------------------------------------
pmapp1recoded |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
         male |   .1496807   .1018777     1.47   0.142     -.049996    .3493574
      college |  -.0300008   .0960758    -0.31   0.755    -.2183058    .1583042
          age |   .0023782   .0145414     0.16   0.870    -.0261225    .0308789
     fulltime |  -.2243977   .1046842    -2.14   0.032     -.429575   -.0192205
         cons |   .4657438   .0662051     7.03   0.000     .3359841    .5955034
          ldp |   .2873534   .1272573     2.26   0.024     .0379336    .5367732
     polconf2 |   .4507947      .0959     4.70   0.000     .2628342    .6387552
--------------+---------------------------------------------------------------
        /cut1 |  -1.265824   .1701807                     -1.599372   -.9322764
        /cut2 |  -.7643943   .1565276                     -1.071183   -.4576058
        /cut3 |   .3979926   .1525909                      .0989199    .6970653
        /cut4 |   1.701577   .1673168                      1.373643    2.029512
------------------------------------------------------------------------------

.
. margins, at(polconf2=(0(1)1)) vsquish saving(m1, replace)

Predictive margins                              Number of obs     =        526
Model VCE    : OIM

1._predict   : Pr(pmapp1recoded==1), predict(pr outcome(1))
2._predict   : Pr(pmapp1recoded==2), predict(pr outcome(2))
3._predict   : Pr(pmapp1recoded==3), predict(pr outcome(3))
4._predict   : Pr(pmapp1recoded==4), predict(pr outcome(4))
5._predict   : Pr(pmapp1recoded==5), predict(pr outcome(5))
1._at        : polconf2        =           0
2._at        : polconf2        =           1
```

```
------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
_predict#_at |
        1 1  |   .0704674   .0132406     5.32   0.000     .0445163    .0964186
        1 2  |   .0288876   .0071898     4.02   0.000     .0147959    .0429794
        2 1  |   .0873048   .0139704     6.25   0.000     .0599233    .1146863
        2 2  |   .0482222   .0088996     5.42   0.000     .0307794     .065665
        3 1  |   .3675342   .0231714    15.86   0.000      .322119    .4129493
        3 2  |   .2871626   .0205078    14.00   0.000      .246968    .3273572
        4 1  |   .3655464   .0219449    16.66   0.000     .3225351    .4085576
        4 2  |   .4324067   .0230472    18.76   0.000      .387235    .4775784
        5 1  |   .1091473   .0151677     7.20   0.000     .0794191    .1388754
        5 2  |   .2033209   .0207115     9.82   0.000     .1627271    .2439146
------------------------------------------------------------------------------

.
. use m1.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter<3
(8 observations deleted)

. twoway (bar _margin counter, sort color(gs11) barw(.5)) ///
>     (rcap _ci_lb _ci_ub counter, sort pstyle(ci) color(black) lw(medthick)), ///
>     xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>         ylabel(0(.1)0.5) ///
>         xtitle("Threat Levels") ///
>         ytitle("Pr(Strongly Disapprove)" "") ///
>         graphregion(color(white)) ///
>         title("Strongly Disapprove", size(medlarge)) ///
>         legend(off) ///
>         saving(m1_strdis.gph, replace)
(file m1_strdis.gph saved)

.
. use m1.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter==3 | counter==4
(8 observations deleted)

. twoway (bar _margin _at, sort color(gs11) barw(.5)) ///
>     (rcap _ci_lb _ci_ub _at, sort pstyle(ci) color(black) lw(medthick)), ///
>     xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>         ylabel(0(.1)0.5) ///
>         xtitle("Threat Levels") ///
>         ytitle("Pr(Disapprove)" "") ///
>         graphregion(color(white)) ///
>         title("Disapprove", size(medlarge)) ///
>         legend(off) ///
>         saving(m1_dis.gph, replace)
(file m1_dis.gph saved)

.
```

```
. use m1.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter==7 | counter==8
(8 observations deleted)

.
. twoway (bar _margin _at, sort color(gs11) barw(.5)) ///
>     (rcap _ci_lb _ci_ub _at, sort pstyle(ci) color(black) lw(medthick)), ///
>     xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>         ylabel(0(.1)0.5) ///
>         xtitle("Threat Levels") ///
>         ytitle("Pr(Approve)" "") ///
>         graphregion(color(white)) ///
>         title("Approve", size(medlarge)) ///
>         legend(off) ///
>         saving(m1_appr.gph, replace)
(file m1_appr.gph saved)

.
. use m1.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter==9 | counter==10
(8 observations deleted)

.
. twoway (bar _margin _at, sort color(gs11) barw(.5)) ///
>     (rcap _ci_lb _ci_ub _at, sort pstyle(ci) color(black) lw(medthick)), ///
>     xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>         ylabel(0(.1)0.5) ///
>         xtitle("Threat Levels") ///
>         ytitle("Pr(Strongly Approve)" "") ///
>         graphregion(color(white)) ///
>         title("Strongly Approve", size(medlarge)) ///
>         legend(off) ///
>         saving(m1_strapp.gph, replace)
(file m1_strapp.gph saved)

.
. graph combine m1_strdis.gph m1_dis.gph m1_appr.gph m1_strapp.gph, col(4) ///
>   subtitle("", size(medsmall)) ///
>   graphregion(color(white)) ycommon imargin(0 0 0 0) ///
>   note("Note: 95% Confidence Intervals reported.", size(small))  ///
>   saving(m1_total.gph, replace)
(file m1_total.gph saved)

.
. * Figure 3
. use "japancleaned2.dta", replace

.
. gen polcoop2=.
(1,120 missing values generated)

. replace polcoop2=0 if polcoop==2
(280 real changes made)
```

```
. replace polcoop2=1 if polcoop==1
(280 real changes made)

.
. oprobit pmapp1recoded male college age fulltime cons ldp polcoop2

Iteration 0:   log likelihood = -744.74213
Iteration 1:   log likelihood = -725.30998
Iteration 2:   log likelihood = -725.29552
Iteration 3:   log likelihood = -725.29551

Ordered probit regression                       Number of obs     =        525
                                                LR chi2(7)        =      38.89
                                                Prob > chi2       =     0.0000
Log likelihood = -725.29551                     Pseudo R2         =     0.0261

------------------------------------------------------------------------------
pmapp1recoded |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
         male |    .049814   .0961456     0.52   0.604    -.1386278    .2382558
      college |   .0915355   .0952506     0.96   0.337    -.0951522    .2782232
          age |   .0008622   .0143696     0.06   0.952    -.0273016     .029026
     fulltime |  -.1132393   .1049035    -1.08   0.280    -.3188464    .0923679
         cons |   .1934663   .0627992     3.08   0.002     .0703822    .3165505
          ldp |   .2465613    .116841     2.11   0.035     .0175572    .4755654
     polcoop2 |    .367275   .0933361     3.93   0.000     .1843395    .5502105
--------------+---------------------------------------------------------------
        /cut1 |  -.9796283   .1624518                     -1.298028   -.6612286
        /cut2 |  -.3971463   .1533654                      -.697737   -.0965556
        /cut3 |   .5562033   .1521207                      .2580523    .8543543
        /cut4 |   1.899198   .1742075                      1.557758    2.240638
------------------------------------------------------------------------------

.
. margins, at(polcoop2=(0(1)1)) vsquish saving(m2, replace)

Predictive margins                              Number of obs     =        525
Model VCE    : OIM

1._predict   : Pr(pmapp1recoded==1), predict(pr outcome(1))
2._predict   : Pr(pmapp1recoded==2), predict(pr outcome(2))
3._predict   : Pr(pmapp1recoded==3), predict(pr outcome(3))
4._predict   : Pr(pmapp1recoded==4), predict(pr outcome(4))
5._predict   : Pr(pmapp1recoded==5), predict(pr outcome(5))
1._at        : polcoop2        =           0
2._at        : polcoop2        =           1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
_predict#_at |
        1 1  |   .1193662   .0172523     6.92   0.000     .0855523    .1531802
        1 2  |   .0620985   .0112073     5.54   0.000     .0401326    .0840643
        2 1  |   .1518105   .0174377     8.71   0.000     .1176332    .1859879
        2 2  |   .1044606   .0136444     7.66   0.000      .077718    .1312031
        3 1  |    .354226   .0215762    16.42   0.000     .3119374    .3965145
        3 2  |   .3183383   .0208734    15.25   0.000     .2774272    .3592495
        4 1  |   .3224386   .0230387    14.00   0.000     .2772835    .3675936
        4 2  |   .4126876   .0249404    16.55   0.000     .3638053      .46157
        5 1  |   .0521587   .0102945     5.07   0.000     .0319819    .0723355
        5 2  |    .102415   .0158499     6.46   0.000     .0713498    .1334802
------------------------------------------------------------------------------
```

```
.
. use m2.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter<3
(8 observations deleted)

. twoway (bar _margin counter, sort color(gs11) barw(.5)) ///
>     (rcap _ci_lb _ci_ub counter, sort pstyle(ci) color(black) lw(medthick)), ///
>     xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>         ylabel(0(.1)0.5) ///
>         xtitle("Threat Levels") ///
>         ytitle("Pr(Strongly Disapprove)" "") ///
>         graphregion(color(white)) ///
>         title("Strongly Disapprove", size(medium)) ///
>         legend(off) ///
>         saving(m2_strdis.gph, replace)
(file m2_strdis.gph saved)

.
. use m2.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter==3 | counter==4
(8 observations deleted)

. twoway (bar _margin _at, sort color(gs11) barw(.5)) ///
>     (rcap _ci_lb _ci_ub _at, sort pstyle(ci) color(black) lw(medthick)), ///
>     xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>         ylabel(0(.1)0.5) ///
>         xtitle("Threat Levels") ///
>         ytitle("Pr(Disapprove)" "") ///
>         graphregion(color(white)) ///
>         title("Disapprove", size(medium)) ///
>         legend(off) ///
>         saving(m2_dis.gph, replace)
(file m2_dis.gph saved)

.
. use m2.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter==7 | counter==8
(8 observations deleted)

.
. twoway (bar _margin _at, sort color(gs11) barw(.5)) ///
>     (rcap _ci_lb _ci_ub _at, sort pstyle(ci) color(black) lw(medthick)), ///
>     xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>         ylabel(0(.1)0.5) ///
>         xtitle("Threat Levels") ///
>         ytitle("Pr(Approve)" "") ///
>         graphregion(color(white)) ///
>         title("Approve", size(medium)) ///
>         legend(off) ///
>         saving(m2_appr.gph, replace)
(file m2_appr.gph saved)
```

```
.
. use m2.dta, clear
(Created by command margins; also see char list)

. gen counter= _n

. keep if counter==9 | counter==10
(8 observations deleted)

.
. twoway (bar _margin _at, sort color(gs11) barw(.5)) ///
>      (rcap _ci_lb _ci_ub _at, sort pstyle(ci) color(black) lw(medthick)), ///
>      xlabel(1 "Lesser"  2 "Bigger", labsize(small)) ///
>          ylabel(0(.1)0.5) ///
>          xtitle("Threat Levels") ///
>          ytitle("Pr(Strongly Approve)" "") ///
>          graphregion(color(white)) ///
>          title("Strongly Approve", size(medium)) ///
>          legend(off) ///
>          saving(m2_strapp.gph, replace)
(file m2_strapp.gph saved)

.
. graph combine m2_strdis.gph m2_dis.gph m2_appr.gph m2_strapp.gph, col(4) ///
>   subtitle("", size(medsmall)) ///
>   graphregion(color(white)) ycommon imargin(0 0 0 0) ///
>   note("Note: 95% Confidence Intervals reported.", size(small))  ///
>   saving(m2_total.gph, replace)
(file m2_total.gph saved)

.
.
. * Figure 4
. use "japancleaned2.dta", replace

.
. twoway hist statea if statea<6, title("State A") percent discrete start(1) saving(st
> atea.gph
> , replace)
(file statea.gph saved)

. twoway hist stateb if stateb<6, title("State B") percent discrete start(1) saving(st
> ateb.gph
> , replace)
(file stateb.gph saved)

. graph combine statea.gph stateb.gph, ///
> row(1) ycommon  title("What countries do you think of?")

.
.
. * Observational analysis
. use jpappterr2014nomiss.dta, clear

.
. * Figure 5
. twoway line approval mdate, ///
>  title("", size(medium)) ///
>  ytitle("Approval Ratings") ///
>  xtitle("Date (Monthly)")
```

```
.
. * Figure 6
. twoway line jcmo mdate, ///
>  title("Japan to China", size(medium)) ///
>  ytitle("Net-Cooperation") ///
>  xtitle("Date (Monthly)") name(jcmo, replace)

.
. twoway line cjmo mdate, ///
>  title("China to Japan", size(medium)) ///
>  ytitle("Net-Cooperation") ///
>  xtitle("Date (Monthly)") name(cjmo, replace)

.
.  twoway line jkmo mdate, ///
>  title("Japan to South Korea", size(medium)) ///
>  ytitle("Net-Cooperation") ///
>  xtitle("Date (Monthly)") name(jkmo, replace)

.
. twoway line kjmo mdate, ///
>  title("South Korea to Japan", size(medium)) ///
>  ytitle("Net-Cooperation") ///
>  xtitle("Date (Monthly)") name(kjmo, replace)

.
. graph combine jcmo cjmo jkmo kjmo, t("") ycommon rows(2)

.
.
. * Table 6
. * Model 1
. regress approval L.approval jcmo cjmo unemployment cpi newcabinet

      Source |       SS           df       MS      Number of obs   =       203
-------------+----------------------------------   F(6, 196)       =    122.74
       Model |  42821.9954         6  7136.99924   Prob > F        =    0.0000
    Residual |  11396.9277       196  58.1475901   R-squared       =    0.7898
-------------+----------------------------------   Adj R-squared   =    0.7834
       Total |  54218.9231       202   268.41051   Root MSE        =    7.6255

------------------------------------------------------------------------------
    approval |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    approval |
         L1. |    .888741   .0348601    25.49   0.000     .8199919    .9574902
             |
        jcmo |  -.6576853   .3053948    -2.15   0.032    -1.259967   -.0554037
        cjmo |   .3092848   .3584806     0.86   0.389    -.3976895    1.016259
unemployment |   1.653755   1.459274     1.13   0.258    -1.224139    4.531649
         cpi |   .4804799   .7474935     0.64   0.521    -.9936828    1.954643
  newcabinet |   32.81647   2.585303    12.69   0.000     27.71789    37.91505
       _cons |  -3.567736   6.752494    -0.53   0.598    -16.88461    9.749135
------------------------------------------------------------------------------

. estat ic

Akaike's information criterion and Bayesian information criterion

------------------------------------------------------------------------------
       Model |        Obs  ll(null)  ll(model)      df         AIC        BIC
-------------+----------------------------------------------------------------
           . |        203 -855.1838  -696.8757       7    1407.751   1430.944
------------------------------------------------------------------------------
               Note: N=Obs used in calculating BIC; see [R] BIC note.
```

```
. estimates store m1

. predict res1, residuals
(1 missing value generated)

. wntestq res1

Portmanteau test for white noise
---------------------------------------
 Portmanteau (Q) statistic =    37.4630
 Prob > chi2(40)           =     0.5851

.
. * Model 2
. regress approval L.approval jcmo L.cjmo unemployment cpi newcabinet

      Source |       SS           df       MS      Number of obs   =       203
-------------+----------------------------------   F(6, 196)       =    125.68
       Model |  43033.8139         6  7172.30231   Prob > F        =    0.0000
    Residual |  11185.1092       196  57.0668839   R-squared       =    0.7937
-------------+----------------------------------   Adj R-squared   =    0.7874
       Total |  54218.9231       202   268.41051   Root MSE        =    7.5543

------------------------------------------------------------------------------
    approval |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    approval |
         L1. |   .8738058   .0343133    25.47   0.000     .8061351    .9414764
             |
        jcmo |  -.5854833    .300077    -1.95   0.052    -1.177278     .006311
             |
        cjmo |
         L1. |  -.7335649   .3469558    -2.11   0.036    -1.417811   -.0493191
             |
unemployment |    1.63742   1.445622     1.13   0.259     -1.21355     4.48839
         cpi |   .4642226   .7405622     0.63   0.531    -.9962706    1.924716
  newcabinet |   32.75959   2.561289    12.79   0.000     27.70837    37.81081
       _cons |  -2.889734   6.686737    -0.43   0.666    -16.07692    10.29746
------------------------------------------------------------------------------

. estat ic

Akaike's information criterion and Bayesian information criterion

------------------------------------------------------------------------------
       Model |        Obs  ll(null)  ll(model)      df         AIC        BIC
-------------+----------------------------------------------------------------
           . |        203 -855.1838  -694.9715       7    1403.943   1427.135
------------------------------------------------------------------------------
               Note: N=Obs used in calculating BIC; see [R] BIC note.

. estimates store m2

. predict res2, residuals
(1 missing value generated)

. wntestq res2

Portmanteau test for white noise
---------------------------------------
 Portmanteau (Q) statistic =    32.2901
 Prob > chi2(40)           =     0.8020
```

```
.
. * Model 3
. regress approval L.approval jkmo kjmo unemployment cpi newcabinet

      Source |       SS           df       MS      Number of obs   =       203
-------------+----------------------------------   F(6, 196)       =    120.63
       Model |  42665.2076         6  7110.86794   Prob > F        =    0.0000
    Residual |  11553.7154       196  58.9475278   R-squared       =    0.7869
-------------+----------------------------------   Adj R-squared   =    0.7804
       Total |  54218.9231       202   268.41051   Root MSE        =    7.6777

------------------------------------------------------------------------------
    approval |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    approval |
         L1. |   .8960653   .0345508    25.93   0.000     .8279263    .9642042
             |
        jkmo |  -.3265295   .2187475    -1.49   0.137    -.7579305    .1048715
        kjmo |   .0166385   .2695544     0.06   0.951    -.5149609     .548238
unemployment |   1.549689   1.475202     1.05   0.295    -1.359617    4.458996
         cpi |   .5493924   .7522293     0.73   0.466      -.93411    2.032895
  newcabinet |   33.85031   2.617107    12.93   0.000       28.689    39.01161
       _cons |  -3.415299   6.804537    -0.50   0.616    -16.83481    10.00421
------------------------------------------------------------------------------

. estat ic

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |        Obs  ll(null)  ll(model)      df         AIC        BIC
-------------+---------------------------------------------------------------
           . |        203 -855.1838  -698.2625       7    1410.525   1433.717
-----------------------------------------------------------------------------
               Note: N=Obs used in calculating BIC; see [R] BIC note.

. estimates store m3

. predict res3, residuals
(1 missing value generated)

. wntestq res3

Portmanteau test for white noise
---------------------------------------
 Portmanteau (Q) statistic =    37.7396
 Prob > chi2(40)           =     0.5725

.
. * Model 4
. regress approval L.approval jkmo L.kjmo unemployment cpi newcabinet

      Source |       SS           df       MS      Number of obs   =       203
-------------+----------------------------------   F(6, 196)       =    120.80
       Model |  42678.2704         6  7113.04507   Prob > F        =    0.0000
    Residual |  11540.6527       196  58.8808811   R-squared       =    0.7871
-------------+----------------------------------   Adj R-squared   =    0.7806
       Total |  54218.9231       202   268.41051   Root MSE        =    7.6734

------------------------------------------------------------------------------
    approval |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    approval |
         L1. |   .8936945   .0345458    25.87   0.000     .8255654    .9618237
             |
        jkmo |  -.3197883   .2190912    -1.46   0.146    -.7518671    .1122905
             |
        kjmo |
         L1. |   -.129638    .272898    -0.48   0.635    -.6678314    .4085553
             |
unemployment |   1.579558   1.467887     1.08   0.283    -1.315322    4.474437
         cpi |   .5181703   .7545429     0.69   0.493    -.9698949    2.006235
```

```
  newcabinet |   33.59835   2.665155    12.61   0.000     28.34229    38.85442
       _cons |  -3.402109   6.789246    -0.50   0.617    -16.79146    9.987243
------------------------------------------------------------------------------

. estat ic

Akaike's information criterion and Bayesian information criterion

------------------------------------------------------------------------------
       Model |        Obs  ll(null)  ll(model)      df         AIC        BIC
-------------+----------------------------------------------------------------
           . |        203 -855.1838  -698.1477       7    1410.295   1433.488
------------------------------------------------------------------------------
               Note: N=Obs used in calculating BIC; see [R] BIC note.

. estimates store m4

. predict res4, residuals
(1 missing value generated)

. wntestq res4

Portmanteau test for white noise
---------------------------------------
 Portmanteau (Q) statistic =    37.3945
 Prob > chi2(40)           =     0.5882

.
. log close
      name:  <unnamed>
       log:  C:\Users\bomim\Dropbox\6TStriangles\fpa\data\lee-multiplerivals.log
  log type:  text
 closed on:   7 Aug 2025, 13:23:38
-------------------------------------------------------------------------------------------
> --------
```