(R)
Statistics/Data Analysis

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Project: JEPS Replication Log File

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | **98** | **5.428571** | **.1641047** | **1.624554** | **5.102869** | **5.754274** |

name: **<unnamed>**
log: **C:\Users\Andrea\Downloads\OneDrive-2017-10-13\Replication log file JEPS.smcl**
log type: **smcl**
opened on: **13 Oct 2017, 22:44:23**

```
1 . use "C:\Users\Andrea\Downloads\OneDrive-2017-10-13\Football 2016 Replication Data 10-13-17.dta"

2 . do "C:\Users\Andrea\AppData\Local\Temp\STD00000000.tmp"

3 . ttest papprove, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **103** | **3.825243** | **.1769225** | **1.795567** | **3.474318** | **4.176168** |
| 2 | **99** | **3.353535** | **.2135935** | **2.125228** | **2.929666** | **3.777405** |
| combined | **202** | **3.594059** | **.1388441** | **1.973346** | **3.320281** | **3.867837** |
| diff | | **.4717074** | **.2764312** | | **-.0733862** | **1.016801** |

diff = mean(**1**) - mean(**2**) t = **1.7064**
Ho: diff = 0 degrees of freedom = **200**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9553** Pr(|T| > |t|) = **0.0895** Pr(T > t) = **0.0447**

```
4 . ttest collsat, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **102** | **5.892157** | **.1512947** | **1.528002** | **5.592029** | **6.192285** |
| 2 | **98** | **5.428571** | **.1641047** | **1.624554** | **5.102869** | **5.754274** |
| combined | **200** | **5.665** | **.11237** | **1.589151** | **5.443411** | **5.886589** |
| diff | | **.4635854** | **.2229306** | | **.0239625** | **.9032084** |

diff = mean(**1**) - mean(**2**) t = **2.0795**
Ho: diff = 0 degrees of freedom = **198**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9806** Pr(|T| > |t|) = **0.0389** Pr(T > t) = **0.0194**

```
5 . ttest pospan, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **101** | **3.277228** | **.0881536** | **.8859324** | **3.102334** | **3.452122** |
| 2 | **93** | **3.013441** | **.0850712** | **.8203969** | **2.844482** | **3.1824** |
| combined | **194** | **3.150773** | **.0619678** | **.863111** | **3.028552** | **3.272994** |
| diff | | **.2637869** | **.1228979** | | **.0213834** | **.5061903** |

diff = mean(**1**) - mean(**2**) t = **2.1464**
Ho: diff = 0 degrees of freedom = **192**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9835** Pr(|T| > |t|) = **0.0331** Pr(T > t) = **0.0165**

```
6 . ttest negpan, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 100 | 1.651111 | .0600955 | .6009553 | 1.531869 | 1.770354 |
| 2 | 92 | 1.993961 | .0736933 | .7068408 | 1.847579 | 2.140344 |
| combined | 192 | 1.815394 | .0486656 | .6743303 | 1.719402 | 1.911385 |
| diff | | -.3428502 | .0944517 | | -.5291588 | -.1565416 |

diff = mean(1) - mean(2) t = -3.6299
Ho: diff = 0 degrees of freedom = 190

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0002 Pr(|T| > |t|) = 0.0004 Pr(T > t) = 0.9998

```
7 . ttest econstat, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 103 | 2.834951 | .1024143 | 1.039392 | 2.631813 | 3.03809 |
| 2 | 99 | 2.949495 | .1106322 | 1.100777 | 2.729949 | 3.169041 |
| combined | 202 | 2.891089 | .0751997 | 1.068788 | 2.742808 | 3.039371 |
| diff | | -.1145435 | .1505868 | | -.411485 | .182398 |

diff = mean(1) - mean(2) t = -0.7606
Ho: diff = 0 degrees of freedom = 200

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.2239 Pr(|T| > |t|) = 0.4478 Pr(T > t) = 0.7761

```
8 . ttest popefav, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 103 | 3.097087 | .0696932 | .7073087 | 2.958851 | 3.235323 |
| 2 | 99 | 3.10101 | .0766423 | .7625809 | 2.948916 | 3.253104 |
| combined | 202 | 3.09901 | .0515796 | .7330839 | 2.997303 | 3.200716 |
| diff | | -.0039227 | .1034367 | | -.2078891 | .2000437 |

diff = mean(1) - mean(2) t = -0.0379
Ho: diff = 0 degrees of freedom = 200

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4849 Pr(|T| > |t|) = 0.9698 Pr(T > t) = 0.5151

```
 9 . ttest lifesat, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 101 | 7.247525 | .1869007 | 1.878329 | 6.876719 | 7.61833 |
| 2 | 96 | 7.375 | .1728565 | 1.693641 | 7.031836 | 7.718164 |
| combined | 197 | 7.309645 | .12734 | 1.787302 | 7.058512 | 7.560777 |
| diff | | -.1274752 | .2552512 | | -.6308828 | .3759323 |

diff = mean(1) - mean(2) t = -0.4994
Ho: diff = 0 degrees of freedom = 195

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.3090 Pr(|T| > |t|) = 0.6181 Pr(T > t) = 0.6910

```
10 . ttest collid, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 102 | 3.617647 | .1149343 | 1.160779 | 3.389648 | 3.845646 |
| 2 | 98 | 3.602041 | .1053381 | 1.042794 | 3.392974 | 3.811108 |
| combined | 200 | 3.61 | .0779092 | 1.101803 | 3.456366 | 3.763634 |
| diff | | .0156062 | .1562388 | | -.2924994 | .3237118 |

diff = mean(1) - mean(2) t = 0.0999
Ho: diff = 0 degrees of freedom = 198

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.5397 Pr(|T| > |t|) = 0.9205 Pr(T > t) = 0.4603

```
11 . ttest postsm, by(condition), if condition==1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 101 | 1.990099 | .1285833 | 1.292246 | 1.734993 | 2.245205 |
| 2 | 93 | 1.774194 | .121477 | 1.171482 | 1.53293 | 2.015457 |
| combined | 194 | 1.886598 | .0888389 | 1.237382 | 1.711378 | 2.061818 |
| diff | | .2159055 | .1776093 | | -.1344105 | .5662215 |

diff = mean(1) - mean(2) t = 1.2156
Ho: diff = 0 degrees of freedom = 192

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.8872 Pr(|T| > |t|) = 0.2256 Pr(T > t) = 0.1128

```
12 .
13 . *Alabama
14 . ttest papprove, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **104** | **3.644231** | **.189787** | **1.935455** | **3.267833** | **4.020628** |
| 4 | **78** | **3.833333** | **.2215622** | **1.956784** | **3.392147** | **4.27452** |
| combined | **182** | **3.725275** | **.1439134** | **1.941498** | **3.441311** | **4.009238** |
| diff | | **-.1891026** | **.2912754** | | **-.7638561** | **.3856509** |

diff = mean(**3**) - mean(**4**) t = **-0.6492**
Ho: diff = 0 degrees of freedom = **180**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.2585** Pr(|T| > |t|) = **0.5170** Pr(T > t) = **0.7415**

```
15 . ttest collsat, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **103** | **5.495146** | **.1566313** | **1.589634** | **5.184468** | **5.805823** |
| 4 | **78** | **5.576923** | **.1802053** | **1.59153** | **5.218089** | **5.935758** |
| combined | **181** | **5.530387** | **.117927** | **1.586546** | **5.29769** | **5.763084** |
| diff | | **-.0817774** | **.2387225** | | **-.5528499** | **.389295** |

diff = mean(**3**) - mean(**4**) t = **-0.3426**
Ho: diff = 0 degrees of freedom = **179**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3662** Pr(|T| > |t|) = **0.7323** Pr(T > t) = **0.6338**

```
16 . ttest pospan, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **101** | **2.94802** | **.0956554** | **.9613251** | **2.758242** | **3.137797** |
| 4 | **75** | **2.973333** | **.1066033** | **.9232117** | **2.760922** | **3.185745** |
| combined | **176** | **2.958807** | **.0710574** | **.9426826** | **2.818567** | **3.099047** |
| diff | | **-.0253135** | **.1440909** | | **-.3097044** | **.2590774** |

diff = mean(**3**) - mean(**4**) t = **-0.1757**
Ho: diff = 0 degrees of freedom = **174**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.4304** Pr(|T| > |t|) = **0.8608** Pr(T > t) = **0.5696**

```
17 . ttest negpan, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **100** | **1.626667** | **.0603544** | **.6035436** | **1.506911** | **1.746423** |
| 4 | **77** | **1.616162** | **.0642556** | **.5638404** | **1.488186** | **1.744138** |
| combined | **177** | **1.622097** | **.0439702** | **.5849856** | **1.53532** | **1.708873** |
| diff | | **.010505** | **.0889419** | | **-.1650318** | **.1860419** |

diff = mean(**3**) - mean(**4**) t = **0.1181**
Ho: diff = 0 degrees of freedom = **175**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5469** Pr(|T| > |t|) = **0.9061** Pr(T > t) = **0.4531**

```
18 . ttest econstat, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **104** | **2.673077** | **.0890183** | **.9078119** | **2.49653** | **2.849624** |
| 4 | **78** | **2.846154** | **.1197691** | **1.057772** | **2.607663** | **3.084645** |
| combined | **182** | **2.747253** | **.072337** | **.9758793** | **2.604521** | **2.889985** |
| diff | | **-.1730769** | **.1460099** | | **-.4611882** | **.1150344** |

diff = mean(**3**) - mean(**4**) t = **-1.1854**
Ho: diff = 0 degrees of freedom = **180**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1187** Pr(|T| > |t|) = **0.2374** Pr(T > t) = **0.8813**

```
19 . ttest popefav, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **104** | **3.019231** | **.0709752** | **.7238083** | **2.878468** | **3.159993** |
| 4 | **77** | **3.012987** | **.079501** | **.6976183** | **2.854647** | **3.171327** |
| combined | **181** | **3.016575** | **.0528356** | **.71083** | **2.912318** | **3.120831** |
| diff | | **.0062438** | **.1071639** | | **-.2052234** | **.2177109** |

diff = mean(**3**) - mean(**4**) t = **0.0583**
Ho: diff = 0 degrees of freedom = **179**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5232** Pr(|T| > |t|) = **0.9536** Pr(T > t) = **0.4768**

```
20 . ttest lifesat, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 102 | 7.039216 | .1874129 | 1.892777 | 6.667439 | 7.410992 |
| 4 | 77 | 7.38961 | .210097 | 1.843594 | 6.971166 | 7.808055 |
| combined | 179 | 7.189944 | .1401173 | 1.874641 | 6.913439 | 7.466449 |
| diff | | -.3503947 | .282582 | | -.9080582 | .2072688 |

diff = mean(3) - mean(4) t = -1.2400
Ho: diff = 0 degrees of freedom = 177

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.1083 Pr(|T| > |t|) = 0.2166 Pr(T > t) = 0.8917

```
21 . ttest collid, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 103 | 3.23301 | .1220142 | 1.238309 | 2.990995 | 3.475024 |
| 4 | 78 | 3.269231 | .1246682 | 1.101039 | 3.020985 | 3.517477 |
| combined | 181 | 3.248619 | .0875651 | 1.178068 | 3.075833 | 3.421405 |
| diff | | -.0362211 | .1772977 | | -.3860835 | .3136414 |

diff = mean(3) - mean(4) t = -0.2043
Ho: diff = 0 degrees of freedom = 179

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4192 Pr(|T| > |t|) = 0.8384 Pr(T > t) = 0.5808

```
22 . ttest postsm, by(condition), if condition==3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 102 | 1.921569 | .1171445 | 1.183101 | 1.689186 | 2.153952 |
| 4 | 77 | 2.103896 | .1353263 | 1.187483 | 1.83437 | 2.373422 |
| combined | 179 | 2 | .0885796 | 1.185114 | 1.825199 | 2.174801 |
| diff | | -.1823275 | .1788932 | | -.5353655 | .1707106 |

diff = mean(3) - mean(4) t = -1.0192
Ho: diff = 0 degrees of freedom = 177

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.1548 Pr(|T| > |t|) = 0.3095 Pr(T > t) = 0.8452

```
23 .
24 . ***Table 2***
25 . ttest papprove=t2papprove if condition==1
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | **63** | **4.142857** | **.2328139** | **1.847903** | **3.677469** | **4.608246** |
| t2papp~e | **63** | **4.015873** | **.2279633** | **1.809403** | **3.560181** | **4.471565** |
| diff | **63** | **.1269841** | **.104903** | **.8326418** | **-.082714** | **.3366822** |

mean(diff) = mean(**papprove - t2papprove**) t = **1.2105**
Ho: mean(diff) = 0 degrees of freedom = **62**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.8847** Pr(|T| > |t|) = **0.2307** Pr(T > t) = **0.1153**

```
26 . ttest collsat=t2collsat if condition==1
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| collsat | **62** | **5.822581** | **.2050708** | **1.614729** | **5.412516** | **6.232645** |
| t2coll~t | **62** | **5.967742** | **.1673632** | **1.317819** | **5.633079** | **6.302405** |
| diff | **62** | **-.1451613** | **.1623577** | **1.278405** | **-.4698155** | **.1794929** |

mean(diff) = mean(**collsat - t2collsat**) t = **-0.8941**
Ho: mean(diff) = 0 degrees of freedom = **61**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.1874** Pr(|T| > |t|) = **0.3748** Pr(T > t) = **0.8126**

```
27 . ttest papprove=t2papprove if condition==2
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | **60** | **3.666667** | **.2768535** | **2.144498** | **3.112684** | **4.220649** |
| t2papp~e | **60** | **4.216667** | **.2268573** | **1.757229** | **3.762726** | **4.670607** |
| diff | **60** | **-.55** | **.1951748** | **1.511818** | **-.940544** | **-.159456** |

mean(diff) = mean(**papprove - t2papprove**) t = **-2.8180**
Ho: mean(diff) = 0 degrees of freedom = **59**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.0033** Pr(|T| > |t|) = **0.0066** Pr(T > t) = **0.9967**

```
28 . ttest collsat=t2collsat if condition==2
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| collsat | **60** | **5.1** | **.2238593** | **1.734007** | **4.652059** | **5.547941** |
| t2coll~t | **60** | **5.766667** | **.1491344** | **1.15519** | **5.46825** | **6.065084** |
| diff | **60** | **-.6666667** | **.2012204** | **1.558646** | **-1.069308** | **-.2640256** |

mean(diff) = mean(**collsat - t2collsat**) t = **-3.3131**
Ho: mean(diff) = 0 degrees of freedom = **59**

```
 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.0008         Pr(|T| > |t|) = 0.0016          Pr(T > t) = 0.9992
```

```
29 .
30 .
31 . ***Results from the appendix***
32 . **Table A.1**
33 . *Clemson:
34 . tab gender if condition==1 | condition==2
```

| gender | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | 93 | 48.19 | 48.19 |
| 1 | 100 | 51.81 | 100.00 |
| Total | 193 | 100.00 | |

```
35 . tab white if condition==1 | condition==2
```

| white | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | 52 | 25.74 | 25.74 |
| 1 | 150 | 74.26 | 100.00 |
| Total | 202 | 100.00 | |

```
36 . summ pid if condition==1 | condition==2
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| pid | 194 | 4.304124 | 1.714094 | 1 | 7 |

```
37 . summ income if condition==1 | condition==2, d
```

income

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | 1 | 1 | | |
| 5% | 1 | 1 | | |
| 10% | 1 | 1 | Obs | 193 |
| 25% | 2 | 1 | Sum of Wgt. | 193 |
| 50% | 3 | | Mean | 3.088083 |
| | | Largest | Std. Dev. | 1.223687 |
| 75% | 4 | 5 | | |
| 90% | 5 | 5 | Variance | 1.497409 |
| 95% | 5 | 5 | Skewness | -.1684354 |
| 99% | 5 | 5 | Kurtosis | 1.981022 |

```
38 . summ age if condition==1 | condition==2
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| age | 195 | 22.43077 | 5.138201 | 18 | 52 |

```
39 . *Alabama:
40 . tab gender if condition==3 | condition==4
```

| gender | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **60** | **33.52** | **33.52** |
| 1 | **119** | **66.48** | **100.00** |
| Total | **179** | **100.00** | |

```
41 . tab white if condition==3 | condition==4
```

| white | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **28** | **15.38** | **15.38** |
| 1 | **154** | **84.62** | **100.00** |
| Total | **182** | **100.00** | |

```
42 . summ pid if condition==3 | condition==4
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| pid | **178** | **4.151685** | **1.851712** | **1** | **7** |

```
43 . summ income if condition==3 | condition==4, d
```

income

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | **1** | **1** | | |
| 5% | **1** | **1** | | |
| 10% | **1** | **1** | Obs | **172** |
| 25% | **2** | **1** | Sum of Wgt. | **172** |
| 50% | **3** | | Mean | **3.215116** |
| | | Largest | Std. Dev. | **1.197074** |
| 75% | **4** | **5** | | |
| 90% | **5** | **5** | Variance | **1.432987** |
| 95% | **5** | **5** | Skewness | **-.3174561** |
| 99% | **5** | **5** | Kurtosis | **2.16698** |

```
44 . summ age if condition==3 | condition==4
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| age | **177** | **23.27119** | **7.189395** | **18** | **58** |

```
45 . *Oklahoma:
46 . tab gender if condition==5 | condition==6
```

| gender | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **24** | **40.00** | **40.00** |
| 1 | **36** | **60.00** | **100.00** |
| Total | **60** | **100.00** | |

```
47 . tab white if condition==5 | condition==6
```

| white | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | 17 | 27.87 | 27.87 |
| 1 | 44 | 72.13 | 100.00 |
| Total | 61 | 100.00 | |

```
48 . summ pid if condition==5 | condition==6
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| pid | 60 | 3.6 | 1.796418 | 1 | 7 |

```
49 . summ income if condition==5 | condition==6, d
```

income

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | 1 | 1 | | |
| 5% | 1 | 1 | | |
| 10% | 1 | 1 | Obs | 60 |
| 25% | 1.5 | 1 | Sum of Wgt. | 60 |
| 50% | 3 | | Mean | 2.683333 |
| | | Largest | Std. Dev. | 1.282102 |
| 75% | 4 | 5 | | |
| 90% | 4 | 5 | Variance | 1.643785 |
| 95% | 5 | 5 | Skewness | .0733114 |
| 99% | 5 | 5 | Kurtosis | 1.808433 |

```
50 . summ age if condition==5 | condition==6
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| age | 60 | 21.36667 | 4.797481 | 18 | 41 |

```
51 . *Michigan State:
52 . tab gender if condition==7 | condition==8
```

| gender | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | 81 | 43.55 | 43.55 |
| 1 | 105 | 56.45 | 100.00 |
| Total | 186 | 100.00 | |

```
53 . tab white if condition==7 | condition==8
```

| white | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | 53 | 28.04 | 28.04 |
| 1 | 136 | 71.96 | 100.00 |
| Total | 189 | 100.00 | |

```
54 . summ pid if condition==7 | condition==8
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| pid | 185 | 3.632432 | 1.616836 | 1 | 7 |

```
55 . summ income if condition==7 | condition==8, d
```

income

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | 1 | 1 | | |
| 5% | 1 | 1 | | |
| 10% | 1 | 1 | Obs | 184 |
| 25% | 2 | 1 | Sum of Wgt. | 184 |
| 50% | 3 | | Mean | 3.125 |
| | | Largest | Std. Dev. | 1.201377 |
| 75% | 4 | 5 | | |
| 90% | 5 | 5 | Variance | 1.443306 |
| 95% | 5 | 5 | Skewness | -.2224876 |
| 99% | 5 | 5 | Kurtosis | 2.029313 |

```
56 . summ age if condition==7 | condition==8
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|---|---|---|---|---|---|
| age | 183 | 20.28415 | 3.466658 | 10 | 48 |

```
57 .
58 . **Balance checks**
59 . *Clemson - no significant predictors
60 . logit post age year gpa topchoice alum income gender white cath ido pid interest wchamp if condi

Iteration 0:   log likelihood = -112.09223
Iteration 1:   log likelihood = -105.63037
Iteration 2:   log likelihood = -105.59589
Iteration 3:   log likelihood = -105.59583
Iteration 4:   log likelihood = -105.59583

Logistic regression                             Number of obs     =        162
                                                LR chi2(13)       =      12.99
                                                Prob > chi2       =     0.4484
Log likelihood = -105.59583                     Pseudo R2         =     0.0580
```

| post | Coef. | Std. Err. | z | P>\|z\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| age | .0858712 | .0539163 | 1.59 | 0.111 | -.0198028 | .1915452 |
| year | -.027503 | .149672 | -0.18 | 0.854 | -.3208547 | .2658487 |
| gpa | -.6282337 | .4154931 | -1.51 | 0.131 | -1.442585 | .1861179 |
| topchoice | -.3502571 | .362886 | -0.97 | 0.334 | -1.061501 | .3609864 |
| alum | .211975 | .3996506 | 0.53 | 0.596 | -.5713258 | .9952758 |
| income | .1369265 | .1572811 | 0.87 | 0.384 | -.1713387 | .4451917 |
| gender | .2621574 | .34003 | 0.77 | 0.441 | -.4042891 | .928604 |
| white | .3275409 | .4835683 | 0.68 | 0.498 | -.6202356 | 1.275317 |
| cath | -.3779857 | .4380608 | -0.86 | 0.388 | -1.236569 | .4805977 |
| ido | .1950806 | .1739413 | 1.12 | 0.262 | -.1458382 | .5359993 |
| pid | -.1305357 | .1718511 | -0.76 | 0.448 | -.4673576 | .2062862 |
| interest | .1327414 | .254142 | 0.52 | 0.601 | -.3653678 | .6308507 |
| wchamp | -.3369716 | .7532621 | -0.45 | 0.655 | -1.813338 | 1.139395 |
| _cons | -.5297128 | 1.904577 | -0.28 | 0.781 | -4.262614 | 3.203189 |

```
61 . *Alabama - significant predictors of age (more likely to be farther along in after-game), income
62 . logit post age year gpa topchoice alum income gender white cath ido pid interest wchamp if condi

Iteration 0:   log likelihood = -87.552717
Iteration 1:   log likelihood = -78.945798
Iteration 2:   log likelihood = -78.925398
Iteration 3:   log likelihood = -78.925395

Logistic regression                               Number of obs     =        127
                                                  LR chi2(13)       =      17.25
                                                  Prob > chi2       =     0.1879
Log likelihood = -78.925395                       Pseudo R2         =     0.0985

------------------------------------------------------------------------------
        post |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .0185565   .0321011     0.58   0.563    -.0443605    .0814736
        year |   .2346312    .168289     1.39   0.163    -.0952091    .5644715
         gpa |   .0666733   .4752888     0.14   0.888    -.8648756    .9982222
   topchoice |   .6651618    .421704     1.58   0.115     -.161363    1.491686
        alum |  -.3679453   .4457477    -0.83   0.409    -1.241595    .5057041
      income |   .4391494   .1936284     2.27   0.023     .0596447    .8186542
      gender |   .4102811   .4351545     0.94   0.346    -.4426061    1.263168
       white |  -.5490309   .6323849    -0.87   0.385    -1.788483    .6904206
        cath |  -.0158691   .4981406    -0.03   0.975    -.9922068    .9604686
         ido |  -.1097498   .2064996    -0.53   0.595    -.5144816     .294982
         pid |   .1267521   .2010843     0.63   0.528    -.2673659      .52087
    interest |  -.6786287   .3016478    -2.25   0.024    -1.269847     -.08741
      wchamp |   .4816016    .655046     0.74   0.462     -.802265    1.765468
       _cons |  -2.189841   1.965456    -1.11   0.265    -6.042064    1.662381
------------------------------------------------------------------------------

63 . *Oklahoma - suggestive result on income (richer in before-game)
64 . logit post age year gpa topchoice alum income gender white cath ido pid interest wchamp if condi

Iteration 0:   log likelihood = -25.491154
Iteration 1:   log likelihood = -18.342415
Iteration 2:   log likelihood = -17.831233
Iteration 3:   log likelihood = -17.798215
Iteration 4:   log likelihood =  -17.79817
Iteration 5:   log likelihood =  -17.79817

Logistic regression                               Number of obs     =         38
                                                  LR chi2(13)       =      15.39
                                                  Prob > chi2       =     0.2839
Log likelihood =  -17.79817                       Pseudo R2         =     0.3018

------------------------------------------------------------------------------
        post |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |  -.1758585   .1007069    -1.75   0.081    -.3732404    .0215235
        year |   1.178043   .5973434     1.97   0.049     .0072712    2.348814
         gpa |    -.39767   .8949728    -0.44   0.657    -2.151784    1.356444
   topchoice |   .5801547   1.105223     0.52   0.600    -1.586043    2.746352
        alum |   1.827097   1.281188     1.43   0.154    -.6839854     4.33818
      income |  -1.822111   1.061369    -1.72   0.086    -3.902356    .2581338
      gender |  -1.147095    1.05912    -1.08   0.279    -3.222931    .9287416
       white |   .5593536    1.05572     0.53   0.596     -1.50982    2.628527
        cath |  -.7789509   1.978181    -0.39   0.694    -4.656114    3.098212
         ido |  -.2997836    .621338    -0.48   0.629    -1.517584    .9180164
         pid |   .9056618   .7289976     1.24   0.214    -.5231473    2.334471
    interest |    1.11792   .8542009     1.31   0.191    -.5562827    2.792123
      wchamp |   .4235878   1.180186     0.36   0.720    -1.889535     2.73671
       _cons |   .6887559   4.161726     0.17   0.869    -7.468078     8.84559
------------------------------------------------------------------------------
```

```
65 . *MSU - no significant predictors
66 . logit post age year gpa topchoice alum income gender white cath ido pid interest wchamp if condi

Iteration 0:   log likelihood = -100.42012
Iteration 1:   log likelihood = -93.063197
Iteration 2:   log likelihood = -93.053978
Iteration 3:   log likelihood = -93.053978

Logistic regression                             Number of obs     =        145
                                                LR chi2(13)       =      14.73
                                                Prob > chi2       =     0.3244
Log likelihood = -93.053978                     Pseudo R2         =     0.0734
```

| post | Coef. | Std. Err. | z | P>\|z\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| age | .0389408 | .0691935 | 0.56 | 0.574 | -.0966758 | .1745575 |
| year | .0295003 | .1754942 | 0.17 | 0.867 | -.314462 | .3734625 |
| gpa | -.0169358 | .3835365 | -0.04 | 0.965 | -.7686536 | .7347819 |
| topchoice | 1.062159 | .4301212 | 2.47 | 0.014 | .2191365 | 1.905181 |
| alum | .1558109 | .3997278 | 0.39 | 0.697 | -.6276412 | .9392631 |
| income | .0579744 | .1697114 | 0.34 | 0.733 | -.2746538 | .3906027 |
| gender | -.0010753 | .3846027 | -0.00 | 0.998 | -.7548828 | .7527321 |
| white | -.1238448 | .4634805 | -0.27 | 0.789 | -1.03225 | .7845603 |
| cath | -.8407869 | .4565524 | -1.84 | 0.066 | -1.735613 | .0540393 |
| ido | .1189503 | .2148356 | 0.55 | 0.580 | -.3021197 | .5400202 |
| pid | -.176821 | .2147357 | -0.82 | 0.410 | -.5976953 | .2440532 |
| interest | -.2075293 | .2615762 | -0.79 | 0.428 | -.7202093 | .3051507 |
| wchamp | .4323122 | .4238266 | 1.02 | 0.308 | -.3983727 | 1.262997 |
| _cons | -1.088856 | 2.034628 | -0.54 | 0.593 | -5.076653 | 2.898941 |

```
67 . **For imputed commands, see imputation .do file.
68 .
69 . **Results for Oklahoma and MSU**
70 . *Table A.2
71 . *MSU
72 . ttest papprove, by(condition), if condition==7 | condition == 8

Two-sample t test with equal variances
```

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | 86 | 4.848837 | .1715125 | 1.590541 | 4.507824 | 5.18985 |
| 8 | 107 | 4.626168 | .1522901 | 1.575301 | 4.324238 | 4.928098 |
| combined | 193 | 4.725389 | .1138657 | 1.581873 | 4.5008 | 4.949977 |
| diff | | .222669 | .2291247 | | -.2292707 | .6746087 |

```
    diff = mean(7) - mean(8)                                      t =   0.9718
Ho: diff = 0                     degrees of freedom =      191

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.8338         Pr(|T| > |t|) = 0.3324          Pr(T > t) = 0.1662
```

```
73 . ttest collsat, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | 85 | 5.552941 | .1538542 | 1.418466 | 5.246985 | 5.858897 |
| 8 | 107 | 6.018692 | .1045443 | 1.081415 | 5.811422 | 6.225961 |
| combined | 192 | 5.8125 | .0909354 | 1.260038 | 5.633133 | 5.991867 |
| diff | | -.4657504 | .1804211 | | -.8216361 | -.1098647 |

diff = mean(7) - mean(8) t = -2.5815
Ho: diff = 0 degrees of freedom = 190

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0053 Pr(|T| > |t|) = 0.0106 Pr(T > t) = 0.9947

```
74 . ttest pospan, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | 81 | 2.864198 | .09623 | .86607 | 2.672694 | 3.055701 |
| 8 | 102 | 2.977941 | .0760054 | .7676173 | 2.827167 | 3.128716 |
| combined | 183 | 2.927596 | .0600504 | .8123468 | 2.809111 | 3.04608 |
| diff | | -.1137436 | .1209378 | | -.352373 | .1248857 |

diff = mean(7) - mean(8) t = -0.9405
Ho: diff = 0 degrees of freedom = 181

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.1741 Pr(|T| > |t|) = 0.3482 Pr(T > t) = 0.8259

```
75 . ttest negpan, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | 81 | 1.794239 | .068491 | .6164192 | 1.657937 | 1.93054 |
| 8 | 101 | 1.676568 | .0626025 | .6291478 | 1.552366 | 1.800769 |
| combined | 182 | 1.728938 | .0462952 | .6245569 | 1.63759 | 1.820286 |
| diff | | .117671 | .0930004 | | -.0658402 | .3011823 |

diff = mean(7) - mean(8) t = 1.2653
Ho: diff = 0 degrees of freedom = 180

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.8963 Pr(|T| > |t|) = 0.2074 Pr(T > t) = 0.1037

```
76 . ttest econstat, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | **86** | **2.837209** | **.1107868** | **1.027395** | **2.616935** | **3.057483** |
| 8 | **108** | **2.990741** | **.0953173** | **.9905664** | **2.801785** | **3.179696** |
| combined | **194** | **2.92268** | **.0723222** | **1.007331** | **2.780037** | **3.065324** |
| diff | | **-.1535314** | **.1455409** | | **-.4405959** | **.133533** |

diff = mean(**7**) - mean(**8**) t = **-1.0549**
Ho: diff = 0 degrees of freedom = **192**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1464** Pr(|T| > |t|) = **0.2928** Pr(T > t) = **0.8536**

```
77 . ttest popefav, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | **85** | **3.117647** | **.0635367** | **.5857792** | **2.991297** | **3.243997** |
| 8 | **108** | **3.055556** | **.0539755** | **.5609294** | **2.948556** | **3.162556** |
| combined | **193** | **3.082902** | **.0411257** | **.571336** | **3.001785** | **3.164018** |
| diff | | **.0620915** | **.0829367** | | **-.1014979** | **.2256809** |

diff = mean(**7**) - mean(**8**) t = **0.7487**
Ho: diff = 0 degrees of freedom = **191**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.7725** Pr(|T| > |t|) = **0.4550** Pr(T > t) = **0.2275**

```
78 . ttest lifesat, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | **84** | **6.702381** | **.2277253** | **2.087137** | **6.249445** | **7.155317** |
| 8 | **105** | **6.780952** | **.2061246** | **2.112149** | **6.3722** | **7.189705** |
| combined | **189** | **6.746032** | **.1524509** | **2.095854** | **6.445297** | **7.046766** |
| diff | | **-.0785714** | **.3075672** | | **-.6853187** | **.5281759** |

diff = mean(**7**) - mean(**8**) t = **-0.2555**
Ho: diff = 0 degrees of freedom = **187**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3993** Pr(|T| > |t|) = **0.7986** Pr(T > t) = **0.6007**

```
79 . ttest collid, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | **85** | **3.352941** | **.1191777** | **1.098764** | **3.115943** | **3.589939** |
| 8 | **107** | **3.850467** | **.1009597** | **1.044335** | **3.650305** | **4.05063** |
| combined | **192** | **3.630208** | **.0789784** | **1.094357** | **3.474426** | **3.78599** |
| diff | | **-.4975261** | **.1552822** | | **-.8038246** | **-.1912277** |

diff = mean(**7**) - mean(**8**) t = **-3.2040**
Ho: diff = 0 degrees of freedom = **190**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0008** Pr(|T| > |t|) = **0.0016** Pr(T > t) = **0.9992**

```
80 . ttest postsm, by(condition), if condition==7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | **84** | **1.821429** | **.1269266** | **1.163301** | **1.568977** | **2.07388** |
| 8 | **102** | **1.872549** | **.1179581** | **1.191318** | **1.638552** | **2.106546** |
| combined | **186** | **1.849462** | **.0862174** | **1.175849** | **1.679367** | **2.019558** |
| diff | | **-.0511204** | **.1736773** | | **-.3937755** | **.2915346** |

diff = mean(**7**) - mean(**8**) t = **-0.2943**
Ho: diff = 0 degrees of freedom = **184**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3844** Pr(|T| > |t|) = **0.7688** Pr(T > t) = **0.6156**

```
81 .
82 . *Oklahoma
83 . ttest papprove, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **4.459459** | **.3138318** | **1.908964** | **3.822979** | **5.09594** |
| 6 | **24** | **4.208333** | **.3660362** | **1.793204** | **3.45113** | **4.965537** |
| combined | **61** | **4.360656** | **.2372806** | **1.853221** | **3.886024** | **4.835288** |
| diff | | **.2511261** | **.4887261** | | **-.7268126** | **1.229065** |

diff = mean(**5**) - mean(**6**) t = **0.5138**
Ho: diff = 0 degrees of freedom = **59**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.6954** Pr(|T| > |t|) = **0.6093** Pr(T > t) = **0.3046**

```
84 . ttest collsat, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **5.405405** | **.24341** | **1.480605** | **4.911747** | **5.899064** |
| 6 | **24** | **5.791667** | **.2480297** | **1.215092** | **5.278578** | **6.304755** |
| combined | **61** | **5.557377** | **.1772969** | **1.384733** | **5.20273** | **5.912024** |
| diff | | **-.3862613** | **.3625231** | | **-1.111668** | **.3391457** |

diff = mean(**5**) - mean(**6**) t = **-1.0655**
Ho: diff = 0 degrees of freedom = **59**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1455** Pr(|T| > |t|) = **0.2910** Pr(T > t) = **0.8545**

```
85 . ttest pospan, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **36** | **2.784722** | **.1615748** | **.969449** | **2.456708** | **3.112737** |
| 6 | **22** | **3.022727** | **.2224599** | **1.043429** | **2.560097** | **3.485358** |
| combined | **58** | **2.875** | **.1307654** | **.9958797** | **2.613147** | **3.136853** |
| diff | | **-.2380051** | **.2700287** | | **-.7789376** | **.3029275** |

diff = mean(**5**) - mean(**6**) t = **-0.8814**
Ho: diff = 0 degrees of freedom = **56**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1909** Pr(|T| > |t|) = **0.3819** Pr(T > t) = **0.8091**

```
86 . ttest negpan, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **1.642643** | **.099132** | **.6029961** | **1.441594** | **1.843692** |
| 6 | **22** | **1.70202** | **.0931593** | **.4369559** | **1.508285** | **1.895756** |
| combined | **59** | **1.664783** | **.070789** | **.5437409** | **1.523084** | **1.806483** |
| diff | | **-.0593776** | **.147457** | | **-.3546552** | **.2359** |

diff = mean(**5**) - mean(**6**) t = **-0.4027**
Ho: diff = 0 degrees of freedom = **57**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3443** Pr(|T| > |t|) = **0.6887** Pr(T > t) = **0.6557**

```
87 . ttest econstat, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **2.783784** | **.1823073** | **1.108932** | **2.414048** | **3.15352** |
| 6 | **24** | **2.916667** | **.189552** | **.9286112** | **2.524549** | **3.308785** |
| combined | **61** | **2.836066** | **.132608** | **1.035701** | **2.57081** | **3.101321** |
| diff | | **-.1328829** | **.2731956** | | **-.679546** | **.4137802** |

diff = mean(**5**) - mean(**6**) t = **-0.4864**
Ho: diff = 0 degrees of freedom = **59**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3142** Pr(|T| > |t|) = **0.6285** Pr(T > t) = **0.6858**

```
88 . ttest popefav, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **2.891892** | **.1330164** | **.8091073** | **2.622122** | **3.161662** |
| 6 | **24** | **3** | **.1592555** | **.7801895** | **2.670555** | **3.329445** |
| combined | **61** | **2.934426** | **.1015423** | **.7930711** | **2.731311** | **3.137541** |
| diff | | **-.1081081** | **.2091409** | | **-.5265981** | **.3103819** |

diff = mean(**5**) - mean(**6**) t = **-0.5169**
Ho: diff = 0 degrees of freedom = **59**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3036** Pr(|T| > |t|) = **0.6071** Pr(T > t) = **0.6964**

```
89 . ttest lifesat, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **6.594595** | **.3539979** | **2.153285** | **5.876654** | **7.312536** |
| 6 | **23** | **6.956522** | **.30463** | **1.460954** | **6.324758** | **7.588286** |
| combined | **60** | **6.733333** | **.2468636** | **1.912197** | **6.23936** | **7.227306** |
| diff | | **-.3619271** | **.509891** | | **-1.382585** | **.6587305** |

diff = mean(**5**) - mean(**6**) t = **-0.7098**
Ho: diff = 0 degrees of freedom = **58**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.2403** Pr(|T| > |t|) = **0.4807** Pr(T > t) = **0.7597**

```
90 . ttest collid, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **3.27027** | **.2109917** | **1.283412** | **2.842359** | **3.698181** |
| 6 | **24** | **3.291667** | **.2853879** | **1.398109** | **2.701297** | **3.882037** |
| combined | **61** | **3.278689** | **.1687808** | **1.31822** | **2.941077** | **3.6163** |
| diff | | **-.0213964** | **.3484032** | | **-.7185497** | **.6757569** |

diff = mean(**5**) - mean(**6**) t = **-0.0614**
Ho: diff = 0 degrees of freedom = **59**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.4756** Pr(|T| > |t|) = **0.9512** Pr(T > t) = **0.5244**

```
91 . ttest postsm, by(condition), if condition==5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **36** | **2.277778** | **.2309783** | **1.38587** | **1.808867** | **2.746689** |
| 6 | **23** | **2.043478** | **.2774692** | **1.330696** | **1.468042** | **2.618914** |
| combined | **59** | **2.186441** | **.1767863** | **1.357922** | **1.832564** | **2.540317** |
| diff | | **.2342995** | **.3643277** | | **-.4952541** | **.9638532** |

diff = mean(**5**) - mean(**6**) t = **0.6431**
Ho: diff = 0 degrees of freedom = **57**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.7386** Pr(|T| > |t|) = **0.5227** Pr(T > t) = **0.2614**

```
92 .
93 . *Table A.3
94 . ttest papprove=t2papprove if condition==7
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | **53** | **4.981132** | **.1933033** | **1.407269** | **4.593241** | **5.369023** |
| t2papp~e | **53** | **4.90566** | **.1730461** | **1.259795** | **4.558418** | **5.252903** |
| diff | **53** | **.0754717** | **.1369613** | **.997093** | **-.1993612** | **.3503046** |

mean(diff) = mean(**papprove - t2papprove**) t = **0.5510**
Ho: mean(diff) = 0 degrees of freedom = **52**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.7080** Pr(|T| > |t|) = **0.5840** Pr(T > t) = **0.2920**

```
. ttest collsat=t2collsat if condition==7
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| collsat | **53** | **5.679245** | **.1802546** | **1.312273** | **5.317538** | **6.040953** |
| t2coll~t | **53** | **5.962264** | **.1203595** | **.8762302** | **5.720745** | **6.203783** |
| diff | **53** | **-.2830189** | **.150898** | **1.098554** | **-.5858179** | **.0197802** |

mean(diff) = mean(**collsat - t2collsat**) t = **-1.8756**
Ho: mean(diff) = 0 degrees of freedom = **52**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.0332** Pr(|T| > |t|) = **0.0663** Pr(T > t) = **0.9668**

```
. ttest papprove=t2papprove if condition==8
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | **65** | **4.753846** | **.1985897** | **1.601081** | **4.357118** | **5.150575** |
| t2papp~e | **65** | **4.707692** | **.1908018** | **1.538293** | **4.326522** | **5.088863** |
| diff | **65** | **.0461538** | **.1148385** | **.9258572** | **-.1832623** | **.27557** |

mean(diff) = mean(**papprove - t2papprove**) t = **0.4019**
Ho: mean(diff) = 0 degrees of freedom = **64**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.6555** Pr(|T| > |t|) = **0.6891** Pr(T > t) = **0.3445**

```
. ttest collsat=t2collsat if condition==8
```

Paired t test

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| collsat | **65** | **6.169231** | **.1212301** | **.9773886** | **5.927046** | **6.411416** |
| t2coll~t | **65** | **6.138462** | **.1178267** | **.9499494** | **5.903076** | **6.373847** |
| diff | **65** | **.0307692** | **.0903232** | **.7282091** | **-.1496721** | **.2112106** |

mean(diff) = mean(**collsat - t2collsat**) t = **0.3407**
Ho: mean(diff) = 0 degrees of freedom = **64**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.6328** Pr(|T| > |t|) = **0.7345** Pr(T > t) = **0.3672**

```
. 
. **Mediation**
. *Alphas on the emotion items*
. alpha elated enthusiastic proud interested
```

Test scale = mean(unstandardized items)

Average interitem covariance: **.6393999**
Number of items in the scale: **4**
Scale reliability coefficient: **0.8080**

```
102 . alpha sad afraid angry hatred bitter contempt worried anxious resentful

Test scale = mean(unstandardized items)

Average interitem covariance:       .33443
Number of items in the scale:            9
Scale reliability coefficient:      0.8363

103 .
104 . regress  papprove post if condition == 1| condition == 2
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| Model | 11.2322397 | 1 | 11.2322397 | Number of obs | = 202 |
| Residual | 771.480632 | 200 | 3.85740316 | F(1, 200) | = 2.91 |
| | | | | Prob > F | = 0.0895 |
| Total | 782.712871 | 201 | 3.89409389 | R-squared | = 0.0144 |
| | | | | Adj R-squared | = 0.0094 |
| | | | | Root MSE | = 1.964 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.4717074 | .2764312 | -1.71 | 0.089 | -1.016801 | .0733862 |
| _cons | 3.825243 | .1935214 | 19.77 | 0.000 | 3.443639 | 4.206847 |

```
105 . regress  papprove pospan negpan if condition == 1| condition == 2
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| Model | 24.4464797 | 2 | 12.2232398 | Number of obs | = 190 |
| Residual | 707.216678 | 187 | 3.78190737 | F(2, 187) | = 3.23 |
| | | | | Prob > F | = 0.0417 |
| Total | 731.663158 | 189 | 3.87123364 | R-squared | = 0.0334 |
| | | | | Adj R-squared | = 0.0231 |
| | | | | Root MSE | = 1.9447 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | .2344343 | .1655574 | 1.42 | 0.158 | -.0921659 | .5610346 |
| negpan | -.3922837 | .2118561 | -1.85 | 0.066 | -.8102187 | .0256514 |
| _cons | 3.615799 | .7097525 | 5.09 | 0.000 | 2.215648 | 5.01595 |

```
106 . regress  papprove post pospan negpan if condition == 1| condition == 2
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| Model | 29.3421486 | 3 | 9.78071619 | Number of obs | = 190 |
| Residual | 702.321009 | 186 | 3.77591941 | F(3, 186) | = 2.59 |
| | | | | Prob > F | = 0.0542 |
| Total | 731.663158 | 189 | 3.87123364 | R-squared | = 0.0401 |
| | | | | Adj R-squared | = 0.0246 |
| | | | | Root MSE | = 1.9432 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.3342284 | .2935275 | -1.14 | 0.256 | -.9132995 | .2448426 |
| pospan | .2134718 | .1664475 | 1.28 | 0.201 | -.114896 | .5418395 |
| negpan | -.3344503 | .2176962 | -1.54 | 0.126 | -.7639213 | .0950208 |
| _cons | 3.735229 | .7169045 | 5.21 | 0.000 | 2.32092 | 5.149539 |

```
107 .
108 . regress  collsat post if condition == 1| condition == 2
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| Model | 10.7412745 | 1 | 10.7412745 | Number of obs | = 200 |
| Residual | 491.813725 | 198 | 2.4839077 | F(1, 198) | = 4.32 |
| | | | | Prob > F | = 0.0389 |
| Total | 502.555 | 199 | 2.52540201 | R-squared | = 0.0214 |
| | | | | Adj R-squared | = 0.0164 |
| | | | | Root MSE | = 1.576 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.4635854 | .2229306 | -2.08 | 0.039 | -.9032084 | -.0239625 |
| _cons | 5.892157 | .1560514 | 37.76 | 0.000 | 5.584421 | 6.199893 |

```
109 . regress  collsat pospan negpan if condition == 1| condition == 2
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| Model | 61.0167345 | 2 | 30.5083673 | Number of obs | = 190 |
| Residual | 427.699055 | 187 | 2.28716072 | F(2, 187) | = 13.34 |
| | | | | Prob > F | = 0.0000 |
| Total | 488.715789 | 189 | 2.58579783 | R-squared | = 0.1249 |
| | | | | Adj R-squared | = 0.1155 |
| | | | | Root MSE | = 1.5123 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | .459725 | .1287483 | 3.57 | 0.000 | .2057392 | .7137108 |
| negpan | -.5103897 | .1647532 | -3.10 | 0.002 | -.8354034 | -.185376 |
| _cons | 5.100308 | .5519501 | 9.24 | 0.000 | 4.011459 | 6.189157 |

```
110 . regress  collsat post pospan negpan if condition == 1| condition == 2
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| Model | 63.8484257 | 3 | 21.2828086 | Number of obs | = 190 |
| Residual | 424.867364 | 186 | 2.28423314 | F(3, 186) | = 9.32 |
| | | | | Prob > F | = 0.0000 |
| Total | 488.715789 | 189 | 2.58579783 | R-squared | = 0.1306 |
| | | | | Adj R-squared | = 0.1166 |
| | | | | Root MSE | = 1.5114 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.2541911 | .2283009 | -1.11 | 0.267 | -.7045831 | .1962009 |
| pospan | .4437823 | .1294602 | 3.43 | 0.001 | .1883832 | .6991814 |
| negpan | -.4664056 | .1693206 | -2.75 | 0.006 | -.8004412 | -.13237 |
| _cons | 5.191138 | .5575967 | 9.31 | 0.000 | 4.091111 | 6.291165 |

```
111 .
112 . **Posting on social media**
113 . *posting to social media
```

```
114 . *Social media models:
115 . *posting to social media
116 .
117 . tab condition, sum(postsm)
```

| condition | Summary of postsm Mean | Std. Dev. | Freq. |
|---|---|---|---|
| 1 | **1.990099** | **1.2922465** | **101** |
| 2 | **1.7741935** | **1.1714821** | **93** |
| 3 | **1.9215686** | **1.1831011** | **102** |
| 4 | **2.1038961** | **1.1874831** | **77** |
| 5 | **2.2777778** | **1.3858697** | **36** |
| 6 | **2.0434783** | **1.3306957** | **23** |
| 7 | **1.8214286** | **1.1633014** | **84** |
| 8 | **1.872549** | **1.1913182** | **102** |
| Total | **1.9368932** | **1.2174706** | **618** |

```
118 . regress postsm pospan negpan, r
```

Linear regression

| | |
|---|---|
| Number of obs | **592** |
| F(2, 589) | **14.91** |
| Prob > F | **0.0000** |
| R-squared | **0.0474** |
| Root MSE | **1.1786** |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | **.285315** | **.0542928** | **5.26** | **0.000** | **.1786839** | **.3919461** |
| negpan | **-.0926656** | **.0759527** | **-1.22** | **0.223** | **-.2418367** | **.0565056** |
| _cons | **1.217778** | **.2139901** | **5.69** | **0.000** | **.7975011** | **1.638054** |

```
119 . regress postsm pospan negpan if condition == 1 | condition == 2,r
```

Linear regression

| | |
|---|---|
| Number of obs | **186** |
| F(2, 183) | **2.33** |
| Prob > F | **0.1007** |
| R-squared | **0.0229** |
| Root MSE | **1.2017** |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | **.2080026** | **.1001067** | **2.08** | **0.039** | **.0104908** | **.4055144** |
| negpan | **-.0180538** | **.1267617** | **-0.14** | **0.887** | **-.2681563** | **.2320486** |
| _cons | **1.219907** | **.4389442** | **2.78** | **0.006** | **.3538647** | **2.085949** |

```
120 . regress postsm  post if condition == 1 | condition == 2,r
```

Linear regression

| | |
|---|---|
| Number of obs | **194** |
| F(1, 192) | **1.49** |
| Prob > F | **0.2238** |
| R-squared | **0.0076** |
| Root MSE | **1.2359** |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.2159055 | .1768914 | -1.22 | 0.224 | -.5648054 | .1329944 |
| _cons | 1.990099 | .1286099 | 15.47 | 0.000 | 1.736429 | 2.243769 |

```
121 . regress postsm pospan negpan post if condition == 1 | condition == 2,r
```

Linear regression

| | |
|---|---|
| Number of obs | 186 |
| F(3, 182) | 2.08 |
| Prob > F | 0.1038 |
| R-squared | 0.0328 |
| Root MSE | 1.1989 |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | .1929754 | .099714 | 1.94 | 0.055 | -.0037687 | .3897195 |
| negpan | .0271409 | .1259933 | 0.22 | 0.830 | -.2214545 | .2757364 |
| post | -.2506562 | .1721603 | -1.46 | 0.147 | -.5903428 | .0890305 |
| _cons | 1.302459 | .4453019 | 2.92 | 0.004 | .4238411 | 2.181077 |

```
122 . regress postsm pospan negpan post age year gpa income gender cath pid interest wcham if conditio
```

Linear regression

| | |
|---|---|
| Number of obs | 171 |
| F(12, 158) | 1.21 |
| Prob > F | 0.2806 |
| R-squared | 0.0678 |
| Root MSE | 1.23 |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | .2293336 | .1082395 | 2.12 | 0.036 | .0155507 | .4431166 |
| negpan | .1023709 | .1470087 | 0.70 | 0.487 | -.1879849 | .3927267 |
| post | -.2817767 | .1928473 | -1.46 | 0.146 | -.6626678 | .0991145 |
| age | -.0042561 | .0193002 | -0.22 | 0.826 | -.0423759 | .0338636 |
| year | .022024 | .0754714 | 0.29 | 0.771 | -.1270389 | .1710869 |
| gpa | -.2617133 | .2505191 | -1.04 | 0.298 | -.7565116 | .2330849 |
| income | -.0969794 | .0917144 | -1.06 | 0.292 | -.2781238 | .084165 |
| gender | .0857006 | .1986114 | 0.43 | 0.667 | -.3065751 | .4779763 |
| cath | -.0853883 | .2374701 | -0.36 | 0.720 | -.5544136 | .383637 |
| pid | .0342583 | .0548669 | 0.62 | 0.533 | -.0741088 | .1426254 |
| interest | -.1305592 | .1581201 | -0.83 | 0.410 | -.4428609 | .1817426 |
| wchamp | -.2056482 | .4601739 | -0.45 | 0.656 | -1.114534 | .7032377 |
| _cons | 2.631532 | 1.116582 | 2.36 | 0.020 | .4261805 | 4.836883 |

```
123 .
124 . regress postsm pospan negpan if condition == 3 | condition == 4, r
```

Linear regression

| | |
|---|---|
| Number of obs | 174 |
| F(2, 171) | 5.68 |
| Prob > F | 0.0041 |
| R-squared | 0.0664 |
| Root MSE | 1.1423 |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | .2985058 | .0958006 | 3.12 | 0.002 | .1094018 | .4876098 |
| negpan | -.1942737 | .1567907 | -1.24 | 0.217 | -.5037682 | .1152208 |
| _cons | 1.426109 | .3758138 | 3.79 | 0.000 | .6842769 | 2.16794 |

125 . regress postsm  post if condition == 3 | condition == 4,r

Linear regression

| | |
|---|---|
| Number of obs | 179 |
| F(1, 177) | 1.04 |
| Prob > F | 0.3096 |
| R-squared | 0.0058 |
| Root MSE | 1.185 |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .1823275 | .1789453 | 1.02 | 0.310 | -.1708135 | .5354684 |
| _cons | 1.921569 | .1172255 | 16.39 | 0.000 | 1.690229 | 2.152908 |

126 . regress postsm pospan negpan post if condition == 3 | condition == 4,r

Linear regression

| | |
|---|---|
| Number of obs | 174 |
| F(3, 170) | 4.10 |
| Prob > F | 0.0077 |
| R-squared | 0.0681 |
| Root MSE | 1.1446 |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | .2979989 | .095727 | 3.11 | 0.002 | .1090321 | .4869656 |
| negpan | -.1939485 | .1581601 | -1.23 | 0.222 | -.5061592 | .1182623 |
| post | .0973776 | .1746428 | 0.56 | 0.578 | -.2473702 | .4421254 |
| _cons | 1.385108 | .3748575 | 3.70 | 0.000 | .645133 | 2.125083 |

127 . regress postsm pospan negpan post age year gpa income gender cath pid interest wcham if conditio

Linear regression

| | |
|---|---|
| Number of obs | 158 |
| F(12, 145) | 2.42 |
| Prob > F | 0.0068 |
| R-squared | 0.1345 |
| Root MSE | 1.1429 |

| postsm | Coef. | Robust Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| pospan | .3588375 | .1004325 | 3.57 | 0.000 | .1603367 | .5573382 |
| negpan | -.3125317 | .1678412 | -1.86 | 0.065 | -.6442631 | .0191996 |
| post | .2190255 | .1812272 | 1.21 | 0.229 | -.1391628 | .5772138 |
| age | -.0146995 | .015414 | -0.95 | 0.342 | -.0451647 | .0157656 |
| year | -.0633736 | .0692649 | -0.91 | 0.362 | -.2002728 | .0735256 |
| gpa | -.0601525 | .2384184 | -0.25 | 0.801 | -.5313768 | .4110717 |
| income | -.0402182 | .0929536 | -0.43 | 0.666 | -.2239373 | .1435009 |
| gender | .1498635 | .2012784 | 0.74 | 0.458 | -.2479552 | .5476822 |
| cath | -.1588749 | .2482453 | -0.64 | 0.523 | -.6495217 | .3317719 |
| pid | -.0463515 | .0545448 | -0.85 | 0.397 | -.154157 | .061454 |
| interest | -.1484831 | .1323867 | -1.12 | 0.264 | -.41014 | .1131739 |
| wchamp | -.3164942 | .3830421 | -0.83 | 0.410 | -1.073561 | .440573 |

| | | | | | | |
|---|---|---|---|---|---|---|
| _cons | **2.993522** | **1.063773** | **2.81** | **0.006** | **.8910173** | **5.096027** |

```
128 .
129 . **Over-time robustness checks**
130 .
131 . *Table A.5
132 . *Clemson
133 . ttest papprove, by(condition), if (condition==1 | condition == 2) & t2papprove != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **63** | **4.142857** | **.2328139** | **1.847903** | **3.677469** | **4.608246** |
| 2 | **60** | **3.666667** | **.2768535** | **2.144498** | **3.112684** | **4.220649** |
| combined | **123** | **3.910569** | **.1807061** | **2.004127** | **3.552843** | **4.268295** |
| diff | | **.4761905** | **.3604201** | | **-.2373561** | **1.189737** |

diff = mean(**1**) - mean(**2**) t = **1.3212**
Ho: diff = 0 degrees of freedom = **121**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9055** Pr(|T| > |t|) = **0.1889** Pr(T > t) = **0.0945**

```
134 . ttest collsat, by(condition), if (condition==1 | condition == 2) & t2collsat != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **62** | **5.822581** | **.2050708** | **1.614729** | **5.412516** | **6.232645** |
| 2 | **60** | **5.1** | **.2238593** | **1.734007** | **4.652059** | **5.547941** |
| combined | **122** | **5.467213** | **.1544992** | **1.706499** | **5.161341** | **5.773085** |
| diff | | **.7225806** | **.3032334** | | **.1221996** | **1.322962** |

diff = mean(**1**) - mean(**2**) t = **2.3829**
Ho: diff = 0 degrees of freedom = **120**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9906** Pr(|T| > |t|) = **0.0187** Pr(T > t) = **0.0094**

```
135 . ttest pospan, by(condition), if (condition==1 | condition == 2) & t2papprove != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **63** | **3.25** | **.1099853** | **.8729815** | **3.030142** | **3.469858** |
| 2 | **59** | **2.936441** | **.1093912** | **.8402499** | **2.71747** | **3.155411** |
| combined | **122** | **3.098361** | **.0785981** | **.8681446** | **2.942755** | **3.253966** |
| diff | | **.3135593** | **.1553192** | | **.0060381** | **.6210806** |

diff = mean(**1**) - mean(**2**) t = **2.0188**
Ho: diff = 0 degrees of freedom = **120**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9771** Pr(|T| > |t|) = **0.0457** Pr(T > t) = **0.0229**

```
136 . ttest negpan, by(condition), if (condition==1 | condition == 2) & t2papprove != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **63** | **1.620811** | **.0823824** | **.6538904** | **1.456131** | **1.785491** |
| 2 | **57** | **2.11306** | **.1057789** | **.798613** | **1.90116** | **2.324961** |
| combined | **120** | **1.85463** | **.0697517** | **.7640914** | **1.716514** | **1.992745** |
| diff | | **-.4922491** | **.1327473** | | **-.7551248** | **-.2293734** |

diff = mean(**1**) - mean(**2**) t = **-3.7082**
Ho: diff = 0 degrees of freedom = **118**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0002** Pr(|T| > |t|) = **0.0003** Pr(T > t) = **0.9998**

```
137 . *Alabama
138 . ttest papprove, by(condition), if (condition==3 | condition == 4) & t2papprove != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **68** | **3.617647** | **.233338** | **1.924154** | **3.151902** | **4.083392** |
| 4 | **40** | **3.75** | **.3116334** | **1.970943** | **3.119662** | **4.380338** |
| combined | **108** | **3.666667** | **.1860485** | **1.933473** | **3.297847** | **4.035486** |
| diff | | **-.1323529** | **.3868698** | | **-.89936** | **.6346541** |

diff = mean(**3**) - mean(**4**) t = **-0.3421**
Ho: diff = 0 degrees of freedom = **106**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3665** Pr(|T| > |t|) = **0.7329** Pr(T > t) = **0.6335**

```
139 . ttest collsat, by(condition), if (condition==3 | condition == 4) & t2collsat != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **68** | **5.441176** | **.1901692** | **1.568176** | **5.061597** | **5.820756** |
| 4 | **39** | **5.461538** | **.2541057** | **1.58689** | **4.947128** | **5.975949** |
| combined | **107** | **5.448598** | **.1515416** | **1.567558** | **5.148152** | **5.749044** |
| diff | | **-.020362** | **.3163578** | | **-.647641** | **.606917** |

diff = mean(**3**) - mean(**4**) t = **-0.0644**
Ho: diff = 0 degrees of freedom = **105**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.4744** Pr(|T| > |t|) = **0.9488** Pr(T > t) = **0.5256**

```
140 . ttest pospan, by(condition), if (condition==3 | condition == 4) & t2papprove != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 68 | 2.841912 | .1093601 | .9018062 | 2.623628 | 3.060195 |
| 4 | 40 | 2.875 | .1555594 | .9838438 | 2.560351 | 3.189649 |
| combined | 108 | 2.854167 | .0893545 | .9285987 | 2.677032 | 3.031301 |
| diff | | -.0330882 | .1858787 | | -.4016108 | .3354343 |

diff = mean(3) - mean(4) t = -0.1780
Ho: diff = 0 degrees of freedom = 106

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4295 Pr(|T| > |t|) = 0.8591 Pr(T > t) = 0.5705

```
141 . ttest negpan, by(condition), if (condition==3 | condition == 4) & t2papprove != .
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 68 | 1.568627 | .0750944 | .6192447 | 1.418738 | 1.718517 |
| 4 | 40 | 1.691667 | .0900641 | .5696155 | 1.509495 | 1.873839 |
| combined | 108 | 1.614198 | .0578902 | .6016128 | 1.499437 | 1.728958 |
| diff | | -.1230392 | .1198492 | | -.3606519 | .1145734 |

diff = mean(3) - mean(4) t = -1.0266
Ho: diff = 0 degrees of freedom = 106

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.1535 Pr(|T| > |t|) = 0.3069 Pr(T > t) = 0.8465

```
142 .
143 . *Modeling nonresponse at time 2
144 . *Clemson
145 . logit time papprove collsat pospan negpan post age year2 gpa income gender cath pid interest wch

Iteration 0:   log likelihood = -75.974137
Iteration 1:   log likelihood =  -65.68659
Iteration 2:   log likelihood = -65.468531
Iteration 3:   log likelihood =  -65.46817
Iteration 4:   log likelihood =  -65.46817

Logistic regression                             Number of obs     =        119
                                                LR chi2(14)       =      21.01
                                                Prob > chi2       =     0.1013
Log likelihood =  -65.46817                     Pseudo R2         =     0.1383
```

| time | Coef. | Std. Err. | z | P>\|z\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | .2909878 | .1705353 | 1.71 | 0.088 | -.0432551 | .6252308 |
| collsat | -.3389104 | .179243 | -1.89 | 0.059 | -.6902202 | .0123994 |
| pospan | .1171743 | .2691394 | 0.44 | 0.663 | -.4103293 | .6446779 |
| negpan | .4179339 | .3946085 | 1.06 | 0.290 | -.3554845 | 1.191352 |
| post | -.0407293 | .4835262 | -0.08 | 0.933 | -.9884233 | .9069646 |
| age | -.2732656 | .2619708 | -1.04 | 0.297 | -.7867189 | .2401878 |
| year2 | .2515566 | .3899553 | 0.65 | 0.519 | -.5127417 | 1.015855 |
| gpa | .4083402 | .5442137 | 0.75 | 0.453 | -.658299 | 1.474979 |
| income | .1173609 | .1941587 | 0.60 | 0.546 | -.2631832 | .497905 |
| gender | 1.088541 | .4544899 | 2.40 | 0.017 | .1977571 | 1.979325 |

| | | | | | | |
|---|---|---|---|---|---|---|
| cath | .5199584 | .512816 | 1.01 | 0.311 | -.4851426 | 1.525059 |
| pid | .0001147 | .1887576 | 0.00 | 1.000 | -.3698433 | .3700727 |
| interest | -.2010888 | .3409927 | -0.59 | 0.555 | -.8694223 | .4672447 |
| wchamp | .0615462 | 1.321709 | 0.05 | 0.963 | -2.528955 | 2.652048 |
| _cons | 3.386895 | 5.275657 | 0.64 | 0.521 | -6.953203 | 13.72699 |

```
146 . *Alabama
147 . logit time papprove collsat pospan negpan post age year2 gpa income gender cath pid interest wch

Iteration 0:   log likelihood = -75.041006
Iteration 1:   log likelihood = -60.158537
Iteration 2:   log likelihood = -59.136286
Iteration 3:   log likelihood = -59.094886
Iteration 4:   log likelihood = -59.094725
Iteration 5:   log likelihood = -59.094725

Logistic regression                             Number of obs     =        112
                                                LR chi2(14)       =      31.89
                                                Prob > chi2       =     0.0041
Log likelihood = -59.094725                     Pseudo R2         =     0.2125
```

| time | Coef. | Std. Err. | z | P>\|z\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | .1486187 | .2036934 | 0.73 | 0.466 | -.250613 | .5478503 |
| collsat | -.2129587 | .1471717 | -1.45 | 0.148 | -.50141 | .0754926 |
| pospan | -.6174462 | .2891285 | -2.14 | 0.033 | -1.184128 | -.0507647 |
| negpan | -.6046667 | .4052584 | -1.49 | 0.136 | -1.398959 | .1896252 |
| post | -.968406 | .4774666 | -2.03 | 0.043 | -1.904223 | -.0325888 |
| age | .3397365 | .2541031 | 1.34 | 0.181 | -.1582964 | .8377693 |
| year2 | -.1343074 | .3621691 | -0.37 | 0.711 | -.8441457 | .5755309 |
| gpa | .1521343 | .5574155 | 0.27 | 0.785 | -.94038 | 1.244649 |
| income | -.6225092 | .230042 | -2.71 | 0.007 | -1.073383 | -.1716352 |
| gender | .5471323 | .5088661 | 1.08 | 0.282 | -.4502269 | 1.544492 |
| cath | .0981768 | .5950665 | 0.16 | 0.869 | -1.068132 | 1.264486 |
| pid | .1526259 | .2037853 | 0.75 | 0.454 | -.2467859 | .5520377 |
| interest | .0373392 | .3484314 | 0.11 | 0.915 | -.6455738 | .7202521 |
| wchamp | 1.394471 | .9325346 | 1.50 | 0.135 | -.4332631 | 3.222205 |
| _cons | -2.909635 | 5.344499 | -0.54 | 0.586 | -13.38466 | 7.565391 |

```
148 . *Oklahoma
149 . logit time papprove collsat pospan negpan post age year2 gpa income gender cath pid interest wch

Iteration 0:   log likelihood = -37.095925
Iteration 1:   log likelihood =  -32.70164
Iteration 2:   log likelihood = -32.504272
Iteration 3:   log likelihood = -32.499492
Iteration 4:   log likelihood = -32.499473
Iteration 5:   log likelihood = -32.499473

Logistic regression                             Number of obs     =         54
                                                LR chi2(14)       =       9.19
                                                Prob > chi2       =     0.8185
Log likelihood = -32.499473                     Pseudo R2         =     0.1239
```

| time | Coef. | Std. Err. | z | P>\|z\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | .2744557 | .2626357 | 1.05 | 0.296 | -.2403008 | .7892122 |
| collsat | -.3373069 | .2779333 | -1.21 | 0.225 | -.8820462 | .2074324 |
| pospan | .0790816 | .4036739 | 0.20 | 0.845 | -.7121047 | .8702678 |
| negpan | -.0360345 | .5809548 | -0.06 | 0.951 | -1.174685 | 1.102616 |
| post | .6492239 | .7467779 | 0.87 | 0.385 | -.8144338 | 2.112882 |
| age | .2261869 | .177797 | 1.27 | 0.203 | -.1222888 | .5746627 |
| year2 | -.3292746 | .3932797 | -0.84 | 0.402 | -1.100089 | .4415394 |
| gpa | .2576893 | .6890485 | 0.37 | 0.708 | -1.092821 | 1.608199 |
| income | .3868532 | .3426224 | 1.13 | 0.259 | -.2846744 | 1.058381 |
| gender | -.5720656 | .7176862 | -0.80 | 0.425 | -1.978705 | .8345734 |
| cath | .1733997 | .9247186 | 0.19 | 0.851 | -1.639016 | 1.985815 |
| pid | -.0418617 | .2553568 | -0.16 | 0.870 | -.5423518 | .4586284 |
| interest | .1245375 | .5500395 | 0.23 | 0.821 | -.9535201 | 1.202595 |
| wchamp | -.0156572 | .7546626 | -0.02 | 0.983 | -1.494769 | 1.463454 |
| _cons | -5.133683 | 5.046097 | -1.02 | 0.309 | -15.02385 | 4.756486 |

```
150 . *MSU
151 . logit time papprove collsat pospan negpan  post age year2 gpa income gender cath pid interest wc

Iteration 0:   log likelihood = -101.95016
Iteration 1:   log likelihood =  -89.13177
Iteration 2:   log likelihood =  -88.96418
Iteration 3:   log likelihood = -88.963872
Iteration 4:   log likelihood = -88.963872

Logistic regression                             Number of obs     =        155
                                                LR chi2(14)       =      25.97
                                                Prob > chi2       =     0.0261
Log likelihood = -88.963872                     Pseudo R2         =     0.1274
```

| time | Coef. | Std. Err. | z | P>\|z\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| papprove | .1290132 | .1439734 | 0.90 | 0.370 | -.1531695 | .4111959 |
| collsat | .1927494 | .166323 | 1.16 | 0.247 | -.1332378 | .5187365 |
| pospan | -.0534106 | .2432371 | -0.22 | 0.826 | -.5301465 | .4233253 |
| negpan | .428639 | .3249536 | 1.32 | 0.187 | -.2082584 | 1.065536 |
| post | .2143507 | .4023438 | 0.53 | 0.594 | -.5742287 | 1.00293 |
| age | -.0666593 | .0915007 | -0.73 | 0.466 | -.2459974 | .1126788 |
| year2 | .4716103 | .21434 | 2.20 | 0.028 | .0515118 | .8917089 |
| gpa | 1.069625 | .414178 | 2.58 | 0.010 | .2578515 | 1.8814 |
| income | .1526065 | .1765826 | 0.86 | 0.387 | -.1934891 | .4987021 |
| gender | .7033792 | .3925984 | 1.79 | 0.073 | -.0660995 | 1.472858 |
| cath | -.0419849 | .4307594 | -0.10 | 0.922 | -.8862579 | .8022881 |
| pid | -.2381198 | .1461205 | -1.63 | 0.103 | -.5245108 | .0482711 |
| interest | .179392 | .2622047 | 0.68 | 0.494 | -.3345198 | .6933038 |
| wchamp | .1640492 | .4447072 | 0.37 | 0.712 | -.707561 | 1.035659 |
| _cons | -5.682551 | 2.995868 | -1.90 | 0.058 | -11.55434 | .1892421 |

```
152 . *See the imputed .do file for details on those analyses
```

```
153 .
154 . **Robustness checks**
155 . *Games watched*
156 . tab condition, sum(gamesw)
```

| condition | Summary of gamesw Mean | Std. Dev. | Freq. |
|---|---|---|---|
| 1 | **8.44** | **4.7573866** | **100** |
| 2 | **9.5** | **5.4963331** | **94** |
| 3 | **8.8585859** | **4.9836674** | **99** |
| 4 | **9.8831169** | **5.7238514** | **77** |
| 5 | **5.3513514** | **4.4423231** | **37** |
| 6 | **5.5217391** | **5.2211943** | **23** |
| 7 | **7.3214286** | **5.0899398** | **84** |
| 8 | **8.0909091** | **4.7575738** | **99** |
| Total | **8.3458401** | **5.2075677** | **613** |

```
157 . ttest gamesw, by(condition), if condition == 1 | condition == 2
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **100** | **8.44** | **.4757387** | **4.757387** | **7.496031** | **9.383969** |
| 2 | **94** | **9.5** | **.5669035** | **5.496333** | **8.374242** | **10.62576** |
| combined | **194** | **8.953608** | **.3692331** | **5.142822** | **8.225358** | **9.681858** |
| diff | | **-1.06** | **.7367803** | | **-2.513223** | **.393223** |

diff = mean(**1**) - mean(**2**) t = **-1.4387**
Ho: diff = 0 degrees of freedom = **192**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0759** Pr(|T| > |t|) = **0.1519** Pr(T > t) = **0.9241**

```
158 . ttest gamesw, by(condition), if condition == 3 | condition == 4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **99** | **8.858586** | **.5008774** | **4.983667** | **7.864611** | **9.852561** |
| 4 | **77** | **9.883117** | **.6522934** | **5.723851** | **8.583962** | **11.18227** |
| combined | **176** | **9.306818** | **.401678** | **5.32886** | **8.514062** | **10.09957** |
| diff | | **-1.024531** | **.8083071** | | **-2.61988** | **.5708177** |

diff = mean(**3**) - mean(**4**) t = **-1.2675**
Ho: diff = 0 degrees of freedom = **174**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1033** Pr(|T| > |t|) = **0.2067** Pr(T > t) = **0.8967**

```
159 . ttest gamesw, by(condition), if condition == 5 | condition == 6
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 5 | **37** | **5.351351** | **.7303134** | **4.442323** | **3.870207** | **6.832496** |
| 6 | **23** | **5.521739** | **1.088694** | **5.221194** | **3.263925** | **7.779553** |
| combined | **60** | **5.416667** | **.6084581** | **4.713096** | **4.199145** | **6.634189** |
| diff | | **-.1703878** | **1.262005** | | **-2.696564** | **2.355789** |

diff = mean(**5**) - mean(**6**) t = **-0.1350**
Ho: diff = 0 degrees of freedom = **58**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.4465** Pr(|T| > |t|) = **0.8931** Pr(T > t) = **0.5535**

```
160 . ttest gamesw, by(condition), if condition == 7 | condition == 8
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 7 | **84** | **7.321429** | **.555358** | **5.08994** | **6.216844** | **8.426013** |
| 8 | **99** | **8.090909** | **.4781542** | **4.757574** | **7.142028** | **9.03979** |
| combined | **183** | **7.737705** | **.3632775** | **4.914326** | **7.020928** | **8.454482** |
| diff | | **-.7694805** | **.7287782** | | **-2.207474** | **.6685132** |

diff = mean(**7**) - mean(**8**) t = **-1.0559**
Ho: diff = 0 degrees of freedom = **181**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1462** Pr(|T| > |t|) = **0.2924** Pr(T > t) = **0.8538**

```
161 . *State of the union*
162 . tab sunion
```

| sunion | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **201** | **67.91** | **67.91** |
| 1 | **95** | **32.09** | **100.00** |
| Total | **296** | **100.00** | |

```
163 . tab t2sunion
```

| t2sunion | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **309** | **81.32** | **81.32** |
| 1 | **71** | **18.68** | **100.00** |
| Total | **380** | **100.00** | |

```
164 . tab sunion if condition == 1 | condition == 2
```

| sunion | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **64** | **68.09** | **68.09** |
| 1 | **30** | **31.91** | **100.00** |
| Total | **94** | **100.00** | |

```
165 . tab t2sunion if condition == 1 | condition == 2
```

| t2sunion | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **99** | **81.82** | **81.82** |
| 1 | **22** | **18.18** | **100.00** |
| Total | **121** | **100.00** | |

```
166 . tab sunion if condition == 3 | condition == 4
```

| sunion | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **52** | **67.53** | **67.53** |
| 1 | **25** | **32.47** | **100.00** |
| Total | **77** | **100.00** | |

```
167 . tab t2sunion if condition == 3 | condition == 4
```

| t2sunion | Freq. | Percent | Cum. |
|---|---|---|---|
| 0 | **87** | **82.08** | **82.08** |
| 1 | **19** | **17.92** | **100.00** |
| Total | **106** | **100.00** | |

```
168 . summ t2sunionmedia, d
```

t2sunionmedia

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | **1** | **1** | | |
| 5% | **1** | **1** | | |
| 10% | **1** | **1** | Obs | **384** |
| 25% | **2** | **1** | Sum of Wgt. | **384** |
| 50% | **2** | | Mean | **2.286458** |
| | | Largest | Std. Dev. | **1.007141** |
| 75% | **3** | **5** | | |
| 90% | **4** | **5** | Variance | **1.014333** |
| 95% | **4** | **5** | Skewness | **.4788571** |
| 99% | **5** | **5** | Kurtosis | **2.472418** |

```
169 . summ t2sunionmedia if condition == 1 | condition == 2, d
```

t2sunionmedia

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | **1** | **1** | | |
| 5% | **1** | **1** | | |
| 10% | **1** | **1** | Obs | **123** |
| 25% | **1** | **1** | Sum of Wgt. | **123** |

| | | | | |
|---|---|---|---|---|
| 50% | **2** | | Mean | **2.195122** |
| | | Largest | Std. Dev. | **.9889433** |
| 75% | **3** | **4** | | |
| 90% | **4** | **4** | Variance | **.9780088** |
| 95% | **4** | **4** | Skewness | **.5211334** |
| 99% | **4** | **4** | Kurtosis | **2.287512** |

```
170 . summ t2sunionmedia if condition == 3 | condition == 4, d
```

t2sunionmedia

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | **1** | **1** | | |
| 5% | **1** | **1** | | |
| 10% | **1** | **1** | Obs | **108** |
| 25% | **1** | **1** | Sum of Wgt. | **108** |
| 50% | **2** | | Mean | **2.268519** |
| | | Largest | Std. Dev. | **1.055528** |
| 75% | **3** | **4** | | |
| 90% | **4** | **5** | Variance | **1.11414** |
| 95% | **4** | **5** | Skewness | **.5499167** |
| 99% | **5** | **5** | Kurtosis | **2.651317** |

```
171 . summ t2suniontalk, d
```

t2suniontalk

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | **1** | **1** | | |
| 5% | **1** | **1** | | |
| 10% | **1** | **1** | Obs | **383** |
| 25% | **1** | **1** | Sum of Wgt. | **383** |
| 50% | **2** | | Mean | **1.793734** |
| | | Largest | Std. Dev. | **.9304406** |
| 75% | **2** | **5** | | |
| 90% | **3** | **5** | Variance | **.8657198** |
| 95% | **4** | **5** | Skewness | **1.142212** |
| 99% | **5** | **5** | Kurtosis | **3.906439** |

```
172 . summ t2suniontalk if condition == 1 | condition == 2,d
```

t2suniontalk

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | **1** | **1** | | |
| 5% | **1** | **1** | | |
| 10% | **1** | **1** | Obs | **123** |
| 25% | **1** | **1** | Sum of Wgt. | **123** |
| 50% | **1** | | Mean | **1.731707** |
| | | Largest | Std. Dev. | **.8877414** |
| 75% | **2** | **4** | | |
| 90% | **3** | **4** | Variance | **.7880848** |
| 95% | **3** | **4** | Skewness | **1.11477** |
| 99% | **4** | **5** | Kurtosis | **3.785936** |

```
173 . summ t2suniontalk if condition == 3 | condition == 4,d
```

t2suniontalk

| Percentiles | | Smallest | | |
|---|---|---|---|---|
| 1% | **1** | **1** | | |
| 5% | **1** | **1** | | |
| 10% | **1** | **1** | Obs | **108** |
| 25% | **1** | **1** | Sum of Wgt. | **108** |
| 50% | **2** | | Mean | **1.759259** |
| | | Largest | Std. Dev. | **.9055423** |
| 75% | **2** | **4** | | |
| 90% | **3** | **4** | Variance | **.8200069** |
| 95% | **4** | **4** | Skewness | **1.250251** |
| 99% | **4** | **5** | Kurtosis | **4.241469** |

```
174 . *Repeating analysese for those who didn't see or hear much about the
175 . *State of the Union
176 . *Clemson
177 . ttest papprove, by(condition), if (condition==1 | condition == 2) & sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **103** | **3.825243** | **.1769225** | **1.795567** | **3.474318** | **4.176168** |
| 2 | **69** | **3.15942** | **.2413227** | **2.004577** | **2.677868** | **3.640972** |
| combined | **172** | **3.55814** | **.145238** | **1.904778** | **3.271449** | **3.84483** |
| diff | | **.6658224** | **.2927731** | | **.0878834** | **1.243761** |

diff = mean(**1**) - mean(**2**) t = **2.2742**
Ho: diff = 0 degrees of freedom = **170**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9879** Pr(|T| > |t|) = **0.0242** Pr(T > t) = **0.0121**

```
178 . ttest collsat, by(condition), if (condition==1 | condition == 2) & sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **102** | **5.892157** | **.1512947** | **1.528002** | **5.592029** | **6.192285** |
| 2 | **68** | **5.411765** | **.2012203** | **1.659305** | **5.010127** | **5.813402** |
| combined | **170** | **5.7** | **.1222967** | **1.594554** | **5.458574** | **5.941426** |
| diff | | **.4803922** | **.2476207** | | **-.0084569** | **.9692412** |

diff = mean(**1**) - mean(**2**) t = **1.9400**
Ho: diff = 0 degrees of freedom = **168**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9730** Pr(|T| > |t|) = **0.0541** Pr(T > t) = **0.0270**

```
179 . ttest pospan, by(condition), if (condition==1 | condition == 2) & sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **101** | **3.277228** | **.0881536** | **.8859324** | **3.102334** | **3.452122** |
| 2 | **64** | **3** | **.100223** | **.8017837** | **2.79972** | **3.20028** |
| combined | **165** | **3.169697** | **.0671449** | **.8624924** | **3.037117** | **3.302277** |
| diff | | **.2772277** | **.1365049** | | **.0076817** | **.5467738** |

diff = mean(**1**) - mean(**2**) t = **2.0309**
Ho: diff = 0 degrees of freedom = **163**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9781** Pr(|T| > |t|) = **0.0439** Pr(T > t) = **0.0219**

```
180 . ttest negpan, by(condition), if (condition==1 | condition == 2) & sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **100** | **1.651111** | **.0600955** | **.6009553** | **1.531869** | **1.770354** |
| 2 | **63** | **1.96649** | **.0887364** | **.7043233** | **1.789109** | **2.143872** |
| combined | **163** | **1.773006** | **.0516172** | **.6590037** | **1.671077** | **1.874935** |
| diff | | **-.3153792** | **.1033842** | | **-.5195431** | **-.1112153** |

diff = mean(**1**) - mean(**2**) t = **-3.0506**
Ho: diff = 0 degrees of freedom = **161**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0013** Pr(|T| > |t|) = **0.0027** Pr(T > t) = **0.9987**

```
181 .
182 . ttest papprove, by(condition), if (condition==1 | condition == 2) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **93** | **3.752688** | **.1747608** | **1.685333** | **3.405598** | **4.099778** |
| 2 | **87** | **3.126437** | **.2222606** | **2.073109** | **2.684597** | **3.568276** |
| combined | **180** | **3.45** | **.141876** | **1.903466** | **3.170035** | **3.729965** |
| diff | | **.6262514** | **.2808101** | | **.0721062** | **1.180397** |

diff = mean(**1**) - mean(**2**) t = **2.2302**
Ho: diff = 0 degrees of freedom = **178**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9865** Pr(|T| > |t|) = **0.0270** Pr(T > t) = **0.0135**

```
183 . ttest collsat, by(condition), if (condition==1 | condition == 2) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **92** | **5.956522** | **.1521568** | **1.459437** | **5.654281** | **6.258763** |
| 2 | **86** | **5.5** | **.1756364** | **1.628785** | **5.150788** | **5.849212** |
| combined | **178** | **5.735955** | **.1166338** | **1.556089** | **5.505783** | **5.966127** |
| diff | | **.4565217** | **.2315189** | | **-.0003888** | **.9134323** |

diff = mean(**1**) - mean(**2**) t = **1.9719**
Ho: diff = 0 degrees of freedom = **176**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9749** Pr(|T| > |t|) = **0.0502** Pr(T > t) = **0.0251**

```
184 . ttest pospan, by(condition), if (condition==1 | condition == 2) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **91** | **3.304945** | **.0936639** | **.8934967** | **3.118865** | **3.491025** |
| 2 | **81** | **3.040123** | **.0921763** | **.8295865** | **2.856687** | **3.22356** |
| combined | **172** | **3.180233** | **.0664605** | **.8716214** | **3.049044** | **3.311421** |
| diff | | **.2648216** | **.1319836** | | **.0042838** | **.5253594** |

diff = mean(**1**) - mean(**2**) t = **2.0065**
Ho: diff = 0 degrees of freedom = **170**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9768** Pr(|T| > |t|) = **0.0464** Pr(T > t) = **0.0232**

```
185 . ttest negpan, by(condition), if (condition==1 | condition == 2) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **90** | **1.630864** | **.0615963** | **.5843541** | **1.508474** | **1.753255** |
| 2 | **80** | **1.969444** | **.0759884** | **.6796612** | **1.818193** | **2.120696** |
| combined | **170** | **1.790196** | **.0499701** | **.6515308** | **1.69155** | **1.888842** |
| diff | | **-.3385802** | **.0969538** | | **-.529985** | **-.1471755** |

diff = mean(**1**) - mean(**2**) t = **-3.4922**
Ho: diff = 0 degrees of freedom = **168**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0003** Pr(|T| > |t|) = **0.0006** Pr(T > t) = **0.9997**

```
186 .
187 . ttest papprove, by(condition), if (condition==1 | condition == 2) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **45** | **4** | **.2542567** | **1.705606** | **3.487579** | **4.512421** |
| 2 | **40** | **3.4** | **.3316625** | **2.097618** | **2.729149** | **4.070851** |
| combined | **85** | **3.717647** | **.2074331** | **1.912439** | **3.305144** | **4.130151** |
| diff | | **.6** | **.4128621** | | **-.2211662** | **1.421166** |

diff = mean(**1**) - mean(**2**) t = **1.4533**
Ho: diff = 0 degrees of freedom = **83**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9250** Pr(|T| > |t|) = **0.1499** Pr(T > t) = **0.0750**

```
188 . ttest collsat, by(condition), if (condition==1 | condition == 2) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **45** | **5.933333** | **.2256304** | **1.513575** | **5.478605** | **6.388062** |
| 2 | **40** | **5.15** | **.2786184** | **1.762137** | **4.586441** | **5.713559** |
| combined | **85** | **5.564706** | **.181379** | **1.672232** | **5.204014** | **5.925398** |
| diff | | **.7833333** | **.3553144** | | **.0766273** | **1.490039** |

diff = mean(**1**) - mean(**2**) t = **2.2046**
Ho: diff = 0 degrees of freedom = **83**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9849** Pr(|T| > |t|) = **0.0302** Pr(T > t) = **0.0151**

```
189 . ttest pospan, by(condition), if (condition==1 | condition == 2) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **45** | **3.238889** | **.1345952** | **.9028924** | **2.96763** | **3.510148** |
| 2 | **40** | **2.94375** | **.1248356** | **.7895298** | **2.691246** | **3.196254** |
| combined | **85** | **3.1** | **.0932039** | **.8592979** | **2.914654** | **3.285346** |
| diff | | **.2951389** | **.1850383** | | **-.0728949** | **.6631726** |

diff = mean(**1**) - mean(**2**) t = **1.5950**
Ho: diff = 0 degrees of freedom = **83**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9427** Pr(|T| > |t|) = **0.1145** Pr(T > t) = **0.0573**

```
190 . ttest negpan, by(condition), if (condition==1 | condition == 2) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **45** | **1.57284** | **.0882804** | **.5922031** | **1.394922** | **1.750757** |
| 2 | **40** | **2.061111** | **.1192165** | **.7539912** | **1.819973** | **2.302249** |
| combined | **85** | **1.802614** | **.0772889** | **.712568** | **1.648917** | **1.956312** |
| diff | | **-.4882716** | **.1462659** | | **-.7791886** | **-.1973546** |

diff = mean(**1**) - mean(**2**) t = **-3.3382**
Ho: diff = 0 degrees of freedom = **83**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0006** Pr(|T| > |t|) = **0.0013** Pr(T > t) = **0.9994**

```
191 .
192 . ttest papprove, by(condition), if (condition==1 | condition == 2)& t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **50** | **4.1** | **.2411706** | **1.705334** | **3.61535** | **4.58465** |
| 2 | **50** | **3.54** | **.2972115** | **2.101603** | **2.942731** | **4.137269** |
| combined | **100** | **3.82** | **.1924746** | **1.924746** | **3.438089** | **4.201911** |
| diff | | **.56** | **.3827505** | | **-.1995559** | **1.319556** |

diff = mean(**1**) - mean(**2**) t = **1.4631**
Ho: diff = 0 degrees of freedom = **98**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9267** Pr(|T| > |t|) = **0.1466** Pr(T > t) = **0.0733**

```
193 . ttest collsat, by(condition), if (condition==1 | condition == 2) & t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **50** | **5.96** | **.2039608** | **1.442221** | **5.550125** | **6.369875** |
| 2 | **50** | **5.04** | **.2406793** | **1.70186** | **4.556337** | **5.523663** |
| combined | **100** | **5.5** | **.1636083** | **1.636083** | **5.175366** | **5.824634** |
| diff | | **.92** | **.3154783** | | **.2939437** | **1.546056** |

diff = mean(**1**) - mean(**2**) t = **2.9162**
Ho: diff = 0 degrees of freedom = **98**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9978** Pr(|T| > |t|) = **0.0044** Pr(T > t) = **0.0022**

```
194 . ttest pospan, by(condition), if (condition==1 | condition == 2) & t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **50** | **3.25** | **.1214286** | **.8586297** | **3.00598** | **3.49402** |
| 2 | **50** | **2.85** | **.1201615** | **.8496698** | **2.608527** | **3.091473** |
| combined | **100** | **3.05** | **.0873285** | **.8732848** | **2.876721** | **3.223279** |
| diff | | **.4** | **.1708323** | | **.0609889** | **.7390111** |

diff = mean(**1**) - mean(**2**) t = **2.3415**
Ho: diff = 0 degrees of freedom = **98**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9894** Pr(|T| > |t|) = **0.0212** Pr(T > t) = **0.0106**

```
195 . ttest negpan, by(condition), if (condition==1 | condition == 2) & t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **50** | **1.548889** | **.0807754** | **.5711684** | **1.386565** | **1.711213** |
| 2 | **48** | **2.145833** | **.1209293** | **.8378228** | **1.902555** | **2.389112** |
| combined | **98** | **1.84127** | **.0779117** | **.7712869** | **1.686637** | **1.995903** |
| diff | | **-.5969444** | **.1443337** | | **-.8834445** | **-.3104444** |

diff = mean(**1**) - mean(**2**) t = **-4.1359**
Ho: diff = 0 degrees of freedom = **96**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0000** Pr(|T| > |t|) = **0.0001** Pr(T > t) = **1.0000**

```
196 . *Alabama
197 . ttest papprove, by(condition), if (condition==3 | condition == 4) & sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **104** | **3.644231** | **.189787** | **1.935455** | **3.267833** | **4.020628** |
| 4 | **53** | **3.490566** | **.2592591** | **1.887435** | **2.970325** | **4.010807** |
| combined | **157** | **3.592357** | **.1528101** | **1.914705** | **3.290513** | **3.894201** |
| diff | | **.1536647** | **.3239504** | | **-.4862627** | **.7935922** |

diff = mean(**3**) - mean(**4**) t = **0.4743**
Ho: diff = 0 degrees of freedom = **155**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.6820** Pr(|T| > |t|) = **0.6359** Pr(T > t) = **0.3180**

```
198 . ttest collsat, by(condition), if (condition==3 | condition == 4) & sunion != 1

Two-sample t test with equal variances
```

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 103 | 5.495146 | .1566313 | 1.589634 | 5.184468 | 5.805823 |
| 4 | 53 | 5.45283 | .2326194 | 1.693495 | 4.986045 | 5.919615 |
| combined | 156 | 5.480769 | .1297294 | 1.620319 | 5.224504 | 5.737035 |
| diff | | .0423154 | .2747757 | | -.5005007 | .5851316 |

```
    diff = mean(3) - mean(4)                                      t =   0.1540
Ho: diff = 0                     degrees of freedom =      154

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5611         Pr(|T| > |t|) = 0.8778          Pr(T > t) = 0.4389

199 . ttest pospan, by(condition), if (condition==3 | condition == 4) & sunion != 1

Two-sample t test with equal variances
```

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 101 | 2.94802 | .0956554 | .9613251 | 2.758242 | 3.137797 |
| 4 | 51 | 2.877451 | .1247296 | .8907476 | 2.626924 | 3.127978 |
| combined | 152 | 2.924342 | .0759094 | .9358742 | 2.77436 | 3.074324 |
| diff | | .0705688 | .1611978 | | -.2479427 | .3890804 |

```
    diff = mean(3) - mean(4)                                      t =   0.4378
Ho: diff = 0                     degrees of freedom =      150

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.6689         Pr(|T| > |t|) = 0.6622          Pr(T > t) = 0.3311

200 . ttest negpan, by(condition), if (condition==3 | condition == 4) & sunion != 1

Two-sample t test with equal variances
```

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 100 | 1.626667 | .0603544 | .6035436 | 1.506911 | 1.746423 |
| 4 | 52 | 1.651709 | .0805585 | .5809153 | 1.489982 | 1.813437 |
| combined | 152 | 1.635234 | .048187 | .5940893 | 1.540026 | 1.730442 |
| diff | | -.0250427 | .101889 | | -.2263658 | .1762803 |

```
    diff = mean(3) - mean(4)                                      t =  -0.2458
Ho: diff = 0                     degrees of freedom =      150

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.4031         Pr(|T| > |t|) = 0.8062          Pr(T > t) = 0.5969
```

```
201 .
202 . ttest papprove, by(condition), if (condition==3 | condition == 4) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **90** | **3.733333** | **.2052981** | **1.947629** | **3.32541** | **4.141256** |
| 4 | **73** | **3.671233** | **.2233129** | **1.907986** | **3.226067** | **4.116399** |
| combined | **163** | **3.705521** | **.1507216** | **1.924284** | **3.407889** | **4.003154** |
| diff | | **.0621005** | **.3039966** | | **-.5382344** | **.6624353** |

diff = mean(**3**) - mean(**4**) t = **0.2043**
Ho: diff = 0 degrees of freedom = **161**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5808** Pr(|T| > |t|) = **0.8384** Pr(T > t) = **0.4192**

```
203 . ttest collsat, by(condition), if (condition==3 | condition == 4) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **89** | **5.404494** | **.1777449** | **1.676842** | **5.051264** | **5.757725** |
| 4 | **73** | **5.589041** | **.1899648** | **1.62306** | **5.210353** | **5.967729** |
| combined | **162** | **5.487654** | **.1296588** | **1.650288** | **5.231603** | **5.743706** |
| diff | | **-.1845467** | **.2609974** | | **-.6999909** | **.3308974** |

diff = mean(**3**) - mean(**4**) t = **-0.7071**
Ho: diff = 0 degrees of freedom = **160**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.2403** Pr(|T| > |t|) = **0.4805** Pr(T > t) = **0.7597**

```
204 . ttest pospan, by(condition), if (condition==3 | condition == 4) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **87** | **3.005747** | **.0985203** | **.918936** | **2.809895** | **3.201599** |
| 4 | **70** | **2.971429** | **.1073807** | **.8984113** | **2.75721** | **3.185647** |
| combined | **157** | **2.990446** | **.0723942** | **.9070969** | **2.847446** | **3.133445** |
| diff | | **.0343186** | **.1460878** | | **-.2542615** | **.3228986** |

diff = mean(**3**) - mean(**4**) t = **0.2349**
Ho: diff = 0 degrees of freedom = **155**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5927** Pr(|T| > |t|) = **0.8146** Pr(T > t) = **0.4073**

```
205 . ttest negpan, by(condition), if (condition==3 | condition == 4) & t2sunion != 1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **86** | **1.666667** | **.0673522** | **.6245986** | **1.532752** | **1.800581** |
| 4 | **72** | **1.604938** | **.0657448** | **.5578634** | **1.473847** | **1.73603** |
| combined | **158** | **1.638537** | **.0472606** | **.5940568** | **1.545189** | **1.731886** |
| diff | | **.0617284** | **.0950698** | | **-.1260618** | **.2495186** |

diff = mean(**3**) - mean(**4**) t = **0.6493**
Ho: diff = 0 degrees of freedom = **156**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.7414** Pr(|T| > |t|) = **0.5171** Pr(T > t) = **0.2586**

```
206 .
207 . ttest papprove, by(condition), if (condition==3 | condition == 4) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **44** | **3.818182** | **.2912986** | **1.932257** | **3.230722** | **4.405641** |
| 4 | **23** | **3.478261** | **.4019201** | **1.927541** | **2.64473** | **4.311792** |
| combined | **67** | **3.701493** | **.2349157** | **1.922868** | **3.232468** | **4.170517** |
| diff | | **.3399209** | **.4967677** | | **-.6521927** | **1.332035** |

diff = mean(**3**) - mean(**4**) t = **0.6843**
Ho: diff = 0 degrees of freedom = **65**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.7519** Pr(|T| > |t|) = **0.4962** Pr(T > t) = **0.2481**

```
208 . ttest collsat, by(condition), if (condition==3 | condition == 4) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **44** | **5.181818** | **.2524148** | **1.674331** | **4.672775** | **5.690861** |
| 4 | **23** | **5.130435** | **.3573306** | **1.713697** | **4.389376** | **5.871493** |
| combined | **67** | **5.164179** | **.2046464** | **1.675103** | **4.755589** | **5.572769** |
| diff | | **.0513834** | **.4342674** | | **-.8159084** | **.9186752** |

diff = mean(**3**) - mean(**4**) t = **0.1183**
Ho: diff = 0 degrees of freedom = **65**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5469** Pr(|T| > |t|) = **0.9062** Pr(T > t) = **0.4531**

```
209 . ttest pospan, by(condition), if (condition==3 | condition == 4) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **44** | **2.710227** | **.1227179** | **.8140181** | **2.462743** | **2.957711** |
| 4 | **23** | **2.76087** | **.1591093** | **.7630615** | **2.430897** | **3.090842** |
| combined | **67** | **2.727612** | **.0966904** | **.791445** | **2.534563** | **2.920661** |
| diff | | **-.0506423** | **.2051066** | | **-.4602684** | **.3589838** |

diff = mean(**3**) - mean(**4**) t = **-0.2469**
Ho: diff = 0 degrees of freedom = **65**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.4029** Pr(|T| > |t|) = **0.8058** Pr(T > t) = **0.5971**

```
210 . ttest negpan, by(condition), if (condition==3 | condition == 4) & t2sunionmedia <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **44** | **1.532828** | **.0698238** | **.4631587** | **1.392015** | **1.673641** |
| 4 | **23** | **1.647343** | **.1225257** | **.5876127** | **1.39324** | **1.901446** |
| combined | **67** | **1.572139** | **.0620373** | **.5077969** | **1.448278** | **1.696001** |
| diff | | **-.1145147** | **.1308912** | | **-.3759225** | **.146893** |

diff = mean(**3**) - mean(**4**) t = **-0.8749**
Ho: diff = 0 degrees of freedom = **65**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1924** Pr(|T| > |t|) = **0.3849** Pr(T > t) = **0.8076**

```
211 .
212 . ttest papprove, by(condition), if (condition==3 | condition == 4)& t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **59** | **3.627119** | **.2511206** | **1.928894** | **3.124446** | **4.129791** |
| 4 | **32** | **3.78125** | **.3382068** | **1.913186** | **3.091473** | **4.471027** |
| combined | **91** | **3.681319** | **.2006577** | **1.914153** | **3.282677** | **4.07996** |
| diff | | **-.1541314** | **.4222773** | | **-.9931873** | **.6849246** |

diff = mean(**3**) - mean(**4**) t = **-0.3650**
Ho: diff = 0 degrees of freedom = **89**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3580** Pr(|T| > |t|) = **0.7160** Pr(T > t) = **0.6420**

```
213 . ttest collsat, by(condition), if (condition==3 | condition == 4) & t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **59** | **5.372881** | **.2092238** | **1.607078** | **4.954075** | **5.791688** |
| 4 | **32** | **5.3125** | **.2890387** | **1.63505** | **4.723002** | **5.901998** |
| combined | **91** | **5.351648** | **.1685778** | **1.60813** | **5.016739** | **5.686558** |
| diff | | **.0603814** | **.3549739** | | **-.6449442** | **.7657069** |

diff = mean(**3**) - mean(**4**) t = **0.1701**
Ho: diff = 0 degrees of freedom = **89**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5673** Pr(|T| > |t|) = **0.8653** Pr(T > t) = **0.4327**

```
214 . ttest pospan, by(condition), if (condition==3 | condition == 4) & t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **59** | **2.792373** | **.1108111** | **.8511561** | **2.57056** | **3.014185** |
| 4 | **32** | **2.921875** | **.1696613** | **.9597494** | **2.575848** | **3.267902** |
| combined | **91** | **2.837912** | **.0930567** | **.8877043** | **2.653039** | **3.022785** |
| diff | | **-.1295021** | **.1954998** | | **-.5179561** | **.2589518** |

diff = mean(**3**) - mean(**4**) t = **-0.6624**
Ho: diff = 0 degrees of freedom = **89**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.2547** Pr(|T| > |t|) = **0.5094** Pr(T > t) = **0.7453**

```
215 . ttest negpan, by(condition), if (condition==3 | condition == 4) & t2suniontalk <3
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **59** | **1.508475** | **.0609116** | **.4678708** | **1.386547** | **1.630402** |
| 4 | **32** | **1.760417** | **.10502** | **.594083** | **1.546227** | **1.974606** |
| combined | **91** | **1.59707** | **.0551989** | **.5265641** | **1.487407** | **1.706732** |
| diff | | **-.2519421** | **.1131421** | | **-.476753** | **-.0271312** |

diff = mean(**3**) - mean(**4**) t = **-2.2268**
Ho: diff = 0 degrees of freedom = **89**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0142** Pr(|T| > |t|) = **0.0285** Pr(T > t) = **0.9858**

```
216 .
217 . *Results for those who watched the game:
218 . tab condition, sum(wchamp)
```

| condition | Summary of wchamp Mean | Std. Dev. | Freq. |
|---|---|---|---|
| 1 | .95049505 | .21800173 | 101 |
| 2 | .94680851 | .22561845 | 94 |
| 3 | .9 | .30151134 | 100 |
| 4 | .90909091 | .28936492 | 77 |
| 5 | .59459459 | .49774265 | 37 |
| 6 | .60869565 | .49901088 | 23 |
| 7 | .63855422 | .48333984 | 83 |
| 8 | .69902913 | .46092302 | 103 |
| Total | .81877023 | .38552048 | 618 |

```
219 . *Clemson
220 . ttest papprove, by(condition), if (condition==1 | condition == 2) & wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 96 | 3.78125 | .1862624 | 1.824991 | 3.411472 | 4.151028 |
| 2 | 89 | 3.370787 | .2239389 | 2.112635 | 2.925755 | 3.815818 |
| combined | 185 | 3.583784 | .1451276 | 1.973949 | 3.297456 | 3.870112 |
| diff | | .4104635 | .289671 | | -.1610608 | .9819878 |

diff = mean(1) - mean(2) t = 1.4170
Ho: diff = 0 degrees of freedom = 183

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9209 Pr(|T| > |t|) = 0.1582 Pr(T > t) = 0.0791

```
221 . ttest collsat, by(condition), if (condition==1 | condition == 2) & wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 96 | 5.947917 | .155576 | 1.524328 | 5.639059 | 6.256774 |
| 2 | 89 | 5.41573 | .175642 | 1.657003 | 5.066679 | 5.764782 |
| combined | 185 | 5.691892 | .1181822 | 1.607452 | 5.458725 | 5.925058 |
| diff | | .5321863 | .2338938 | | .0707111 | .9936616 |

diff = mean(1) - mean(2) t = 2.2753
Ho: diff = 0 degrees of freedom = 183

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9880 Pr(|T| > |t|) = 0.0240 Pr(T > t) = 0.0120

```
222 . ttest pospan, by(condition), if (condition==1 | condition == 2) & wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **95** | **3.328947** | **.0888731** | **.8662274** | **3.152488** | **3.505407** |
| 2 | **86** | **3.002907** | **.0896961** | **.8318072** | **2.824567** | **3.181247** |
| combined | **181** | **3.174033** | **.0641665** | **.8632721** | **3.047418** | **3.300648** |
| diff | | **.3260404** | **.1265249** | | **.0763681** | **.5757127** |

diff = mean(**1**) - mean(**2**) t = **2.5769**
Ho: diff = 0 degrees of freedom = **179**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9946** Pr(|T| > |t|) = **0.0108** Pr(T > t) = **0.0054**

```
223 . ttest negpan, by(condition), if (condition==1 | condition == 2) & wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **94** | **1.646572** | **.0605711** | **.5872586** | **1.52629** | **1.766854** |
| 2 | **85** | **1.972549** | **.0752147** | **.693445** | **1.822976** | **2.122122** |
| combined | **179** | **1.801366** | **.0492263** | **.6586036** | **1.704223** | **1.898508** |
| diff | | **-.3259769** | **.0957708** | | **-.5149766** | **-.1369772** |

diff = mean(**1**) - mean(**2**) t = **-3.4037**
Ho: diff = 0 degrees of freedom = **177**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0004** Pr(|T| > |t|) = **0.0008** Pr(T > t) = **0.9996**

```
224 .
225 . *Alabama
226 . ttest papprove, by(condition), if (condition==3 | condition == 4) & wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **90** | **3.433333** | **.1986534** | **1.884592** | **3.038613** | **3.828053** |
| 4 | **70** | **3.742857** | **.2352794** | **1.968489** | **3.273488** | **4.212227** |
| combined | **160** | **3.56875** | **.1519325** | **1.921811** | **3.268684** | **3.868816** |
| diff | | **-.3095238** | **.3062464** | | **-.9143886** | **.295341** |

diff = mean(**3**) - mean(**4**) t = **-1.0107**
Ho: diff = 0 degrees of freedom = **158**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1569** Pr(|T| > |t|) = **0.3137** Pr(T > t) = **0.8431**

```
227 . ttest collsat, by(condition), if (condition==3 | condition == 4) & wchamp==1

Two-sample t test with equal variances
```

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 90 | 5.5 | .1725552 | 1.637002 | 5.157137 | 5.842863 |
| 4 | 70 | 5.714286 | .185547 | 1.552397 | 5.34413 | 6.084442 |
| combined | 160 | 5.59375 | .1264217 | 1.599123 | 5.344068 | 5.843432 |
| diff | | -.2142857 | .2550784 | | -.7180891 | .2895177 |

```
    diff = mean(3) - mean(4)                                      t =  -0.8401
Ho: diff = 0                     degrees of freedom =      158

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2011         Pr(|T| > |t|) = 0.4021          Pr(T > t) = 0.7989

228 . ttest pospan, by(condition), if (condition==3 | condition == 4) & wchamp==1

Two-sample t test with equal variances
```

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 89 | 2.969101 | .1032401 | .9739652 | 2.763933 | 3.174269 |
| 4 | 68 | 3.022059 | .1126755 | .9291459 | 2.797158 | 3.24696 |
| combined | 157 | 2.992038 | .0759897 | .9521485 | 2.841937 | 3.14214 |
| diff | | -.0529577 | .1537926 | | -.3567576 | .2508422 |

```
    diff = mean(3) - mean(4)                                      t =  -0.3443
Ho: diff = 0                     degrees of freedom =      155

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3655         Pr(|T| > |t|) = 0.7311          Pr(T > t) = 0.6345

229 . ttest negpan, by(condition), if (condition==3 | condition == 4) & wchamp==1

Two-sample t test with equal variances
```

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 89 | 1.600499 | .0625674 | .5902593 | 1.47616 | 1.724839 |
| 4 | 70 | 1.61746 | .0667906 | .5588103 | 1.484217 | 1.750704 |
| combined | 159 | 1.607966 | .0455912 | .5748834 | 1.51792 | 1.698013 |
| diff | | -.0169609 | .0921226 | | -.1989205 | .1649986 |

```
    diff = mean(3) - mean(4)                                      t =  -0.1841
Ho: diff = 0                     degrees of freedom =      157

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.4271         Pr(|T| > |t|) = 0.8542          Pr(T > t) = 0.5729
```

```
230 .
231 . *Only for those, who, after the fact, reported watching the game
232 . *Clemson
233 . ttest papprove, by(condition), if (condition==1 | condition == 2) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **57** | **4.070175** | **.2437947** | **1.84061** | **3.581796** | **4.558555** |
| 2 | **55** | **3.618182** | **.2906986** | **2.155878** | **3.035366** | **4.200997** |
| combined | **112** | **3.848214** | **.1894965** | **2.005442** | **3.472714** | **4.223714** |
| diff | | **.4519936** | **.3783258** | | **-.2977593** | **1.201747** |

diff = mean(**1**) - mean(**2**) t = **1.1947**
Ho: diff = 0 degrees of freedom = **110**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.8826** Pr(|T| > |t|) = **0.2348** Pr(T > t) = **0.1174**

```
234 . ttest collsat, by(condition), if (condition==1 | condition == 2) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **57** | **5.789474** | **.2178398** | **1.644654** | **5.353088** | **6.225859** |
| 2 | **55** | **5.090909** | **.2368035** | **1.756182** | **4.616147** | **5.565672** |
| combined | **112** | **5.446429** | **.1633384** | **1.728611** | **5.122763** | **5.770094** |
| diff | | **.6985646** | **.3213812** | | **.0616624** | **1.335467** |

diff = mean(**1**) - mean(**2**) t = **2.1736**
Ho: diff = 0 degrees of freedom = **110**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9841** Pr(|T| > |t|) = **0.0319** Pr(T > t) = **0.0159**

```
235 . ttest pospan, by(condition), if (condition==1 | condition == 2) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **57** | **3.245614** | **.1181539** | **.8920422** | **3.008923** | **3.482305** |
| 2 | **54** | **2.921296** | **.1113384** | **.8181665** | **2.69798** | **3.144613** |
| combined | **111** | **3.087838** | **.0824264** | **.8684159** | **2.924488** | **3.251188** |
| diff | | **.3243177** | **.1627293** | | **.0017935** | **.646842** |

diff = mean(**1**) - mean(**2**) t = **1.9930**
Ho: diff = 0 degrees of freedom = **109**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9756** Pr(|T| > |t|) = **0.0488** Pr(T > t) = **0.0244**

```
236 . ttest negpan, by(condition), if (condition==1 | condition == 2) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **57** | **1.633528** | **.0895187** | **.675851** | **1.454201** | **1.812856** |
| 2 | **52** | **2.106838** | **.1121521** | **.8087399** | **1.881683** | **2.331992** |
| combined | **109** | **1.859327** | **.0743234** | **.7759594** | **1.712005** | **2.006649** |
| diff | | **-.4733093** | **.1423227** | | **-.7554475** | **-.1911711** |

diff = mean(**1**) - mean(**2**) t = **-3.3256**
Ho: diff = 0 degrees of freedom = **107**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0006** Pr(|T| > |t|) = **0.0012** Pr(T > t) = **0.9994**

```
237 .
238 . *Alabama
239 . ttest papprove, by(condition), if (condition==3 | condition == 4) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **61** | **3.42623** | **.2354614** | **1.839013** | **2.955237** | **3.897222** |
| 4 | **39** | **3.692308** | **.3142024** | **1.962193** | **3.056238** | **4.328377** |
| combined | **100** | **3.53** | **.1882696** | **1.882696** | **3.156432** | **3.903568** |
| diff | | **-.2660782** | **.3870284** | | **-1.034123** | **.5019671** |

diff = mean(**3**) - mean(**4**) t = **-0.6875**
Ho: diff = 0 degrees of freedom = **98**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.2467** Pr(|T| > |t|) = **0.4934** Pr(T > t) = **0.7533**

```
240 . ttest collsat, by(condition), if (condition==3 | condition == 4) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **61** | **5.508197** | **.2032831** | **1.587692** | **5.10157** | **5.914823** |
| 4 | **39** | **5.538462** | **.2460104** | **1.536335** | **5.040439** | **6.036484** |
| combined | **100** | **5.52** | **.1560109** | **1.560109** | **5.210441** | **5.829559** |
| diff | | **-.0302648** | **.3214716** | | **-.6682147** | **.6076851** |

diff = mean(**3**) - mean(**4**) t = **-0.0941**
Ho: diff = 0 degrees of freedom = **98**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.4626** Pr(|T| > |t|) = **0.9252** Pr(T > t) = **0.5374**

```
241 . ttest pospan, by(condition), if (condition==3 | condition == 4) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **61** | **2.893443** | **.1160688** | **.9065261** | **2.661271** | **3.125615** |
| 4 | **39** | **2.865385** | **.1592954** | **.9947992** | **2.542908** | **3.187861** |
| combined | **100** | **2.8825** | **.093707** | **.9370698** | **2.696565** | **3.068435** |
| diff | | **.028058** | **.1930779** | | **-.3550987** | **.4112147** |

diff = mean(**3**) - mean(**4**) t = **0.1453**
Ho: diff = 0 degrees of freedom = **98**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5576** Pr(|T| > |t|) = **0.8848** Pr(T > t) = **0.4424**

```
242 . ttest negpan, by(condition), if (condition==3 | condition == 4) & t2wchamp==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **61** | **1.551913** | **.0795049** | **.6209535** | **1.392879** | **1.710946** |
| 4 | **39** | **1.703704** | **.0915749** | **.5718848** | **1.51832** | **1.889087** |
| combined | **100** | **1.611111** | **.0603953** | **.6039526** | **1.491274** | **1.730948** |
| diff | | **-.1517911** | **.1235062** | | **-.3968852** | **.0933029** |

diff = mean(**3**) - mean(**4**) t = **-1.2290**
Ho: diff = 0 degrees of freedom = **98**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.1110** Pr(|T| > |t|) = **0.2220** Pr(T > t) = **0.8890**

```
243 .
244 . *Only for undergraduate respondents
245 . *Clemson
246 . ttest papprove, by(condition), if (condition==1 | condition == 2) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **71** | **3.690141** | **.213801** | **1.80152** | **3.263728** | **4.116554** |
| 2 | **62** | **2.790323** | **.2402373** | **1.89163** | **2.309938** | **3.270707** |
| combined | **133** | **3.270677** | **.1640121** | **1.891479** | **2.946245** | **3.595109** |
| diff | | **.8998183** | **.3205296** | | **.2657342** | **1.533902** |

diff = mean(**1**) - mean(**2**) t = **2.8073**
Ho: diff = 0 degrees of freedom = **131**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9971** Pr(|T| > |t|) = **0.0058** Pr(T > t) = **0.0029**

```
247 . ttest collsat, by(condition), if (condition==1 | condition == 2) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **71** | **6.028169** | **.1838246** | **1.548934** | **5.661542** | **6.394796** |
| 2 | **62** | **5.5** | **.2129469** | **1.676745** | **5.074186** | **5.925814** |
| combined | **133** | **5.781955** | **.1409284** | **1.625266** | **5.503184** | **6.060725** |
| diff | | **.528169** | **.2798008** | | **-.0253438** | **1.081682** |

diff = mean(**1**) - mean(**2**) t = **1.8877**
Ho: diff = 0 degrees of freedom = **131**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9694** Pr(|T| > |t|) = **0.0613** Pr(T > t) = **0.0306**

```
248 . ttest pospan, by(condition), if (condition==1 | condition == 2) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **70** | **3.267857** | **.1100914** | **.9210909** | **3.048231** | **3.487484** |
| 2 | **59** | **2.974576** | **.104804** | **.8050151** | **2.764788** | **3.184364** |
| combined | **129** | **3.133721** | **.0773849** | **.8789234** | **2.980602** | **3.28684** |
| diff | | **.2932809** | **.1537591** | | **-.0109806** | **.5975423** |

diff = mean(**1**) - mean(**2**) t = **1.9074**
Ho: diff = 0 degrees of freedom = **127**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.9706** Pr(|T| > |t|) = **0.0587** Pr(T > t) = **0.0294**

```
249 . ttest negpan, by(condition), if (condition==1 | condition == 2) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | **69** | **1.642512** | **.0725742** | **.6028465** | **1.497693** | **1.787332** |
| 2 | **60** | **1.992593** | **.0971401** | **.7524436** | **1.798216** | **2.186969** |
| combined | **129** | **1.80534** | **.0613016** | **.696252** | **1.684045** | **1.926636** |
| diff | | **-.3500805** | **.119411** | | **-.5863733** | **-.1137878** |

diff = mean(**1**) - mean(**2**) t = **-2.9317**
Ho: diff = 0 degrees of freedom = **127**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0020** Pr(|T| > |t|) = **0.0040** Pr(T > t) = **0.9980**

```
250 . *Alabama
251 . ttest papprove, by(condition), if (condition==3 | condition == 4) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **76** | **3.644737** | **.2268812** | **1.977904** | **3.192766** | **4.096707** |
| 4 | **50** | **3.64** | **.2736898** | **1.935279** | **3.09** | **4.19** |
| combined | **126** | **3.642857** | **.1740149** | **1.953312** | **3.29846** | **3.987254** |
| diff | | **.0047368** | **.3571157** | | **-.7020952** | **.7115689** |

diff = mean(**3**) - mean(**4**) t = **0.0133**
Ho: diff = 0 degrees of freedom = **124**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.5053** Pr(|T| > |t|) = **0.9894** Pr(T > t) = **0.4947**

```
252 . ttest collsat, by(condition), if (condition==3 | condition == 4) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **76** | **5.513158** | **.190561** | **1.661272** | **5.133541** | **5.892775** |
| 4 | **50** | **5.52** | **.2394552** | **1.693204** | **5.038797** | **6.001203** |
| combined | **126** | **5.515873** | **.1485311** | **1.667257** | **5.221912** | **5.809834** |
| diff | | **-.0068421** | **.3048171** | | **-.6101605** | **.5964763** |

diff = mean(**3**) - mean(**4**) t = **-0.0224**
Ho: diff = 0 degrees of freedom = **124**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.4911** Pr(|T| > |t|) = **0.9821** Pr(T > t) = **0.5089**

```
253 . ttest pospan, by(condition), if (condition==3 | condition == 4) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **75** | **2.926667** | **.1104631** | **.9566387** | **2.706564** | **3.146769** |
| 4 | **49** | **2.97449** | **.1294376** | **.9060631** | **2.714238** | **3.234741** |
| combined | **124** | **2.945565** | **.0838347** | **.9335441** | **2.779619** | **3.11151** |
| diff | | **-.0478231** | **.1721283** | | **-.3885683** | **.292922** |

diff = mean(**3**) - mean(**4**) t = **-0.2778**
Ho: diff = 0 degrees of freedom = **122**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3908** Pr(|T| > |t|) = **0.7816** Pr(T > t) = **0.6092**

```
254 . ttest negpan, by(condition), if (condition==3 | condition == 4) & year<=4
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | 74 | 1.645646 | .0772821 | .664806 | 1.491623 | 1.799669 |
| 4 | 50 | 1.62 | .0747274 | .5284022 | 1.46983 | 1.77017 |
| combined | 124 | 1.635305 | .0548969 | .6113058 | 1.52664 | 1.74397 |
| diff | | .0256456 | .1123436 | | -.1967498 | .2480411 |

diff = mean(3) - mean(4) t = 0.2283
Ho: diff = 0 degrees of freedom = 122

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.5901 Pr(|T| > |t|) = 0.8198 Pr(T > t) = 0.4099

```
255 .
256 . *Pope results, by Catholic status
257 . *Clemson
258 . ttest popefav, by(condition), if (condition==1 | condition == 2) & cath==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 21 | 3.428571 | .1106567 | .5070926 | 3.197746 | 3.659397 |
| 2 | 16 | 3.4375 | .1572882 | .6291529 | 3.102248 | 3.772752 |
| combined | 37 | 3.432432 | .0912093 | .5548043 | 3.247451 | 3.617413 |
| diff | | -.0089286 | .1867128 | | -.3879757 | .3701186 |

diff = mean(1) - mean(2) t = -0.0478
Ho: diff = 0 degrees of freedom = 35

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4811 Pr(|T| > |t|) = 0.9621 Pr(T > t) = 0.5189

```
259 . ttest popefav, by(condition), if (condition==1 | condition == 2) & cath==0
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 1 | 82 | 3.012195 | .0804495 | .728501 | 2.852126 | 3.172264 |
| 2 | 83 | 3.036145 | .0847561 | .7721649 | 2.867538 | 3.204751 |
| combined | 165 | 3.024242 | .0582775 | .7485882 | 2.909171 | 3.139313 |
| diff | | -.0239495 | .1168991 | | -.2547813 | .2068824 |

diff = mean(1) - mean(2) t = -0.2049
Ho: diff = 0 degrees of freedom = 163

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4190 Pr(|T| > |t|) = 0.8379 Pr(T > t) = 0.5810

```
260 . *Alabama
261 . ttest popefav, by(condition), if (condition==3 | condition == 4) & cath==1
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **18** | **3.111111** | **.1111111** | **.4714045** | **2.876687** | **3.345535** |
| 4 | **15** | **3.466667** | **.1918994** | **.7432234** | **3.055083** | **3.87825** |
| combined | **33** | **3.272727** | **.1089962** | **.6261353** | **3.050709** | **3.494745** |
| diff | | **-.3555556** | **.2130359** | | **-.7900452** | **.0789341** |

diff = mean(**3**) - mean(**4**) t = **-1.6690**
Ho: diff = 0 degrees of freedom = **31**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.0526** Pr(|T| > |t|) = **0.1052** Pr(T > t) = **0.9474**

```
262 . ttest popefav, by(condition), if (condition==3 | condition == 4) & cath==0
```

Two-sample t test with equal variances

| Group | Obs | Mean | Std. Err. | Std. Dev. | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 3 | **86** | **3** | **.082704** | **.766965** | **2.835562** | **3.164438** |
| 4 | **62** | **2.903226** | **.0819826** | **.6455314** | **2.739292** | **3.06716** |
| combined | **148** | **2.959459** | **.0590094** | **.7178803** | **2.842843** | **3.076076** |
| diff | | **.0967742** | **.1197432** | | **-.1398797** | **.3334281** |

diff = mean(**3**) - mean(**4**) t = **0.8082**
Ho: diff = 0 degrees of freedom = **146**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.7898** Pr(|T| > |t|) = **0.4203** Pr(T > t) = **0.2102**

```
263 .
264 .
265 . **Imputation replications**
266 . *These commands create the imputed dataset and run the imputed analyses reported
267 . *on in the appendix.
268 . *Let's tweak the format around a bit so that we can use the estimation commands
269 . *in mi (we can't do ttests in that format, but we can do regression)
270 .
271 . *Difference variables
272 . gen diff_pap=papprove-t2papprove
(256 missing values generated)

273 . gen diff_econ=econstat-t2econstat
(258 missing values generated)

274 . gen diff_collsat=collsat-t2collsat
(258 missing values generated)
```

```
275 . gen diff_popefav=popefav-t2popefav
    (256 missing values generated)

276 . gen diff_collid=collid-t2collid
    (257 missing values generated)

277 . gen diff_lifesat=lifesat-t2lifesat
    (255 missing values generated)

278 . *Test it to see if it produces similar results to the ttests
279 . mean diff_pap, over(condition) level(90)

Mean estimation                   Number of obs    =        383

            1: condition = 1
            2: condition = 2
            3: condition = 3
            4: condition = 4
            5: condition = 5
            6: condition = 6
            7: condition = 7
            8: condition = 8
```

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| **diff_pap** | | | | |
| 1 | .1269841 | .104903 | -.0459854 | .2999537 |
| 2 | -.55 | .1951748 | -.8718145 | -.2281855 |
| 3 | -.0441176 | .0899561 | -.192442 | .1042068 |
| 4 | .1 | .106217 | -.0751361 | .2751361 |
| 5 | .2857143 | .3247186 | -.2496987 | .8211273 |
| 6 | -.1538462 | .1538462 | -.4075157 | .0998234 |
| 7 | .0754717 | .1369613 | -.1503572 | .3013006 |
| 8 | .0461538 | .1148385 | -.1431978 | .2355055 |

```
280 . mean diff_econ, over(condition) level(90)

Mean estimation                   Number of obs    =        381

            1: condition = 1
            2: condition = 2
            3: condition = 3
            4: condition = 4
            5: condition = 5
            6: condition = 6
            7: condition = 7
            8: condition = 8
```

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| **diff_econ** | | | | |
| 1 | -.047619 | .0971392 | -.2077894 | .1125513 |
| 2 | .05 | .1074223 | -.1271258 | .2271258 |
| 3 | -.0588235 | .091044 | -.2089435 | .0912965 |
| 4 | .125 | .1300271 | -.0893983 | .3393983 |
| 5 | -.1666667 | .2711631 | -.6137802 | .2804469 |
| 6 | .2307692 | .2010819 | -.1007893 | .5623278 |
| 7 | -.1132075 | .122446 | -.3151055 | .0886904 |
| 8 | .0606061 | .1055097 | -.1133661 | .2345782 |

```
281 . mean diff_collsat, over(condition) level(90)

Mean estimation                   Number of obs   =        381

            1: condition = 1
            2: condition = 2
            3: condition = 3
            4: condition = 4
            5: condition = 5
            6: condition = 6
            7: condition = 7
            8: condition = 8
```

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| **diff_collsat** | | | | |
| 1 | -.1451613 | .1623577 | -.4128685 | .1225459 |
| 2 | -.6666667 | .2012204 | -.9984536 | -.3348797 |
| 3 | -.2058824 | .1683453 | -.4834624 | .0716977 |
| 4 | -.1282051 | .21477 | -.4823337 | .2259235 |
| 5 | -.0952381 | .2573192 | -.5195248 | .3290486 |
| 6 | .2307692 | .1661728 | -.0432287 | .5047672 |
| 7 | -.2830189 | .150898 | -.5318306 | -.0342071 |
| 8 | .0307692 | .0903232 | -.1181623 | .1797008 |

```
282 . mean diff_collid, over(condition) level(90)

Mean estimation                   Number of obs   =        382

            1: condition = 1
            2: condition = 2
            3: condition = 3
            4: condition = 4
            5: condition = 5
            6: condition = 6
            7: condition = 7
            8: condition = 8
```

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| **diff_collid** | | | | |
| 1 | .047619 | .0859529 | -.0941055 | .1893436 |
| 2 | -.0333333 | .0949774 | -.1899381 | .1232714 |
| 3 | -.0746269 | .0804595 | -.2072936 | .0580399 |
| 4 | .0512821 | .1098933 | -.129917 | .2324811 |
| 5 | .3809524 | .341399 | -.1819678 | .9438725 |
| 6 | .0769231 | .2391636 | -.3174248 | .471271 |
| 7 | -.3584906 | .1237253 | -.5624965 | -.1544846 |
| 8 | .0606061 | .1160315 | -.1307139 | .2519261 |

```
283 . mean diff_popefav, over(condition) level(90)

Mean estimation                   Number of obs   =        383

            1: condition = 1
            2: condition = 2
            3: condition = 3
            4: condition = 4
            5: condition = 5
            6: condition = 6
            7: condition = 7
            8: condition = 8
```

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| **diff_popefav** | | | | |
| 1 | .015873 | .0357214 | -.0430263 | .0747723 |
| 2 | .0833333 | .0546776 | -.006822 | .1734887 |
| 3 | -.0588235 | .0549657 | -.1494538 | .0318068 |
| 4 | .025 | .0758499 | -.1000653 | .1500653 |
| 5 | -.15 | .2325488 | -.5334386 | .2334386 |
| 6 | .0769231 | .1368856 | -.1487811 | .3026272 |
| 7 | -.0188679 | .0686304 | -.1320294 | .0942935 |
| 8 | .0757576 | .0583799 | -.0205022 | .1720173 |

```
284 . mean diff_lifesat, over(condition) level(90)

Mean estimation                   Number of obs   =        384

            1: condition = 1
            2: condition = 2
            3: condition = 3
            4: condition = 4
            5: condition = 5
            6: condition = 6
            7: condition = 7
            8: condition = 8
```

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| **diff_lifesat** | | | | |
| 1 | -.2222222 | .2054611 | -.5609951 | .1165506 |
| 2 | -.0666667 | .1627217 | -.334969 | .2016356 |
| 3 | .1470588 | .2055686 | -.1918912 | .4860089 |
| 4 | .075 | .1449469 | -.1639946 | .3139946 |
| 5 | -.8571429 | .561824 | -1.783502 | .0692161 |
| 6 | -.2307692 | .4689575 | -1.004006 | .5424675 |
| 7 | -.0377358 | .2033148 | -.3729698 | .2974981 |
| 8 | -.2727273 | .2020241 | -.605833 | .0603785 |

```
285 . *The significance is the same as the ttest
286 .
287 . *Now for the imputation
288 . *First set the data
289 . mi set w

290 . mi register imputed papprove econstat collsat collid popefav lifesat t2papprove ///
    >         t2econstat t2collsat t2collid t2popefav t2lifesat pospan negpan age gpa topchoice ///
    >         alum income year gender white cath citizen ido pid interest wchamp gamesa gamesw

291 . mi register regular condition post

292 . mi impute chained (regress) papprove econstat collsat collid popefav lifesat t2papprove ///
    >                 t2econstat t2collsat t2collid t2popefav t2lifesat pospan negpan age gpa income /
    >                 ido pid interest gamesa gamesw year (logit) topchoice alum gender white cath ///
    >                 citizen wchamp = condition post , rseed(60981565) add(200)
    note: variable econstat contains no soft missing (.) values; imputing nothing
```

Conditional models:

```
          papprove: regress papprove econstat popefav collsat collid i.white i.cath lifesat year i
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
           popefav: regress popefav econstat papprove collsat collid i.white i.cath lifesat year i
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
           collsat: regress collsat econstat papprove popefav collid i.white i.cath lifesat year i
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
            collid: regress collid econstat papprove popefav collsat i.white i.cath lifesat year i
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
             white: logit white econstat papprove popefav collsat collid i.cath lifesat year inter
                    income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsat c
              cath: logit cath econstat papprove popefav collsat collid i.white lifesat year inter
                    income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsat c
           lifesat: regress lifesat econstat papprove popefav collsat collid i.white i.cath year i
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
              year: regress year econstat papprove popefav collsat collid i.white i.cath lifesat i
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
          interest: regress interest econstat papprove popefav collsat collid i.white i.cath lifes
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
        topchoice: logit topchoice econstat papprove popefav collsat collid i.white i.cath lifesa
                    income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsat c
              alum: logit alum econstat papprove popefav collsat collid i.white i.cath lifesat yea
                    income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsat c
            gender: logit gender econstat papprove popefav collsat collid i.white i.cath lifesat y
                    income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsat c
            wchamp: logit wchamp econstat papprove popefav collsat collid i.white i.cath lifesat y
                    income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsat c
               pid: regress pid econstat papprove popefav collsat collid i.white i.cath lifesat ye
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
           citizen: logit citizen econstat papprove popefav collsat collid i.white i.cath lifesat
                    income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsat c
               age: regress age econstat papprove popefav collsat collid i.white i.cath lifesat ye
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
            gamesa: regress gamesa econstat papprove popefav collsat collid i.white i.cath lifesat
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
            gamesw: regress gamesw econstat papprove popefav collsat collid i.white i.cath lifesat
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
            pospan: regress pospan econstat papprove popefav collsat collid i.white i.cath lifesat
                    negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
            negpan: regress negpan econstat papprove popefav collsat collid i.white i.cath lifesat
                    pospan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
            income: regress income econstat papprove popefav collsat collid i.white i.cath lifesat
                    pospan negpan gpa ido t2papprove t2lifesat t2popefav t2collid t2econstat t2co
               gpa: regress gpa econstat papprove popefav collsat collid i.white i.cath lifesat ye
                    negpan income ido t2papprove t2lifesat t2popefav t2collid t2econstat t2collsa
               ido: regress ido econstat papprove popefav collsat collid i.white i.cath lifesat ye
                    negpan income gpa t2papprove t2lifesat t2popefav t2collid t2econstat t2collsa
         t2papprove: regress t2papprove econstat papprove popefav collsat collid i.white i.cath lif
                    pospan negpan income gpa ido t2lifesat t2popefav t2collid t2econstat t2collsa
          t2lifesat: regress t2lifesat econstat papprove popefav collsat collid i.white i.cath life
                    pospan negpan income gpa ido t2papprove t2popefav t2collid t2econstat t2colls
          t2popefav: regress t2popefav econstat papprove popefav collsat collid i.white i.cath life
                    pospan negpan income gpa ido t2papprove t2lifesat t2collid t2econstat t2colls
           t2collid: regress t2collid econstat papprove popefav collsat collid i.white i.cath lifes
                    pospan negpan income gpa ido t2papprove t2lifesat t2popefav t2econstat t2coll
         t2econstat: regress t2econstat econstat papprove popefav collsat collid i.white i.cath lif
                    pospan negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2collsa
          t2collsat: regress t2collsat econstat papprove popefav collsat collid i.white i.cath life
                    pospan negpan income gpa ido t2papprove t2lifesat t2popefav t2collid t2econst
```

Performing chained iterations ...

```
Multivariate imputation                     Imputations =      200
Chained equations                                 added =      200
Imputed: m=1 through m=200                      updated =        0
```

Initialization: **monotone**  Iterations = **2000**
burn-in = **10**

**papprove**: linear regression
**econstat**: linear regression
**collsat**: linear regression
**collid**: linear regression
**popefav**: linear regression
**lifesat**: linear regression
**t2papprove**: linear regression
**t2econstat**: linear regression
**t2collsat**: linear regression
**t2collid**: linear regression
**t2popefav**: linear regression
**t2lifesat**: linear regression
**pospan**: linear regression
**negpan**: linear regression
**age**: linear regression
**gpa**: linear regression
**income**: linear regression
**ido**: linear regression
**pid**: linear regression
**interest**: linear regression
**gamesa**: linear regression
**gamesw**: linear regression
**year**: linear regression
**topchoice**: logistic regression
**alum**: logistic regression
**gender**: logistic regression
**white**: logistic regression
**cath**: logistic regression
**citizen**: logistic regression
**wchamp**: logistic regression

| | Observations per *m* | | | |
|---|---|---|---|---|
| Variable | Complete | Incomplete | Imputed | Total |
| papprove | **638** | **1** | **1** | **639** |
| econstat | **639** | **0** | **0** | **639** |
| collsat | **634** | **5** | **5** | **639** |
| collid | **634** | **5** | **5** | **639** |
| popefav | **637** | **2** | **2** | **639** |
| lifesat | **625** | **14** | **14** | **639** |
| t2papprove | **384** | **255** | **255** | **639** |
| t2econstat | **381** | **258** | **258** | **639** |
| t2collsat | **381** | **258** | **258** | **639** |
| t2collid | **382** | **257** | **257** | **639** |
| t2popefav | **383** | **256** | **256** | **639** |
| t2lifesat | **384** | **255** | **255** | **639** |
| pospan | **611** | **28** | **28** | **639** |
| negpan | **610** | **29** | **29** | **639** |
| age | **615** | **24** | **24** | **639** |
| gpa | **602** | **37** | **37** | **639** |
| income | **609** | **30** | **30** | **639** |
| ido | **507** | **132** | **132** | **639** |
| pid | **617** | **22** | **22** | **639** |
| interest | **618** | **21** | **21** | **639** |
| gamesa | **613** | **26** | **26** | **639** |
| gamesw | **613** | **26** | **26** | **639** |
| year | **620** | **19** | **19** | **639** |
| topchoice | **618** | **21** | **21** | **639** |
| alum | **618** | **21** | **21** | **639** |
| gender | **618** | **21** | **21** | **639** |
| white | **634** | **5** | **5** | **639** |
| cath | **634** | **5** | **5** | **639** |

| | | | | |
|---|---|---|---|---|
| citizen | **617** | **22** | **22** | **639** |
| wchamp | **618** | **21** | **21** | **639** |

(complete + incomplete = total; imputed is the minimum across *m*
 of the number of filled-in observations.)

```
293 . *Generate the differences between t1 and t2:
294 . mi passive: gen diff_pap_i=papprove-t2papprove
    m=0:
    (256 missing values generated)
    m=1:
    m=2:
    m=3:
    m=4:
    m=5:
    m=6:
    m=7:
    m=8:
    m=9:
    m=10:
    m=11:
    m=12:
    m=13:
    m=14:
    m=15:
    m=16:
    m=17:
    m=18:
    m=19:
    m=20:
    m=21:
    m=22:
    m=23:
    m=24:
    m=25:
    m=26:
    m=27:
    m=28:
    m=29:
    m=30:
    m=31:
    m=32:
    m=33:
    m=34:
    m=35:
    m=36:
    m=37:
    m=38:
    m=39:
    m=40:
    m=41:
    m=42:
    m=43:
    m=44:
    m=45:
    m=46:
    m=47:
    m=48:
    m=49:
    m=50:
    m=51:
    m=52:
    m=53:
    m=54:
    m=55:
    m=56:
    m=57:
```

*m*=58:
*m*=59:
*m*=60:
*m*=61:
*m*=62:
*m*=63:
*m*=64:
*m*=65:
*m*=66:
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*m*=191:

```
    m=192:
    m=193:
    m=194:
    m=195:
    m=196:
    m=197:
    m=198:
    m=199:
    m=200:

295 . mi passive: gen diff_econ_i=econstat-t2econstat
    m=0:
    (258 missing values generated)
    m=1:
    m=2:
    m=3:
    m=4:
    m=5:
    m=6:
    m=7:
    m=8:
    m=9:
    m=10:
    m=11:
    m=12:
    m=13:
    m=14:
    m=15:
    m=16:
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```

*m*=55:
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```
    m=189:
    m=190:
    m=191:
    m=192:
    m=193:
    m=194:
    m=195:
    m=196:
    m=197:
    m=198:
    m=199:
    m=200:

296 . mi passive: gen diff_collsat_i=collsat-t2collsat
    m=0:
    (258 missing values generated)
    m=1:
    m=2:
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297 . mi passive: gen diff_popefav_i=popefav-t2popefav
m=0:
(256 missing values generated)
m=1:
m=2:
m=3:
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298 . mi passive: gen diff_collid_i=collid-t2collid
    m=0:
    (257 missing values generated)
    m=1:
    m=2:
    m=3:
    m=4:
    m=5:
    m=6:
    m=7:
    m=8:
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299 . mi passive: gen diff_lifesat_i=lifesat-t2lifesat
    m=0:
    (255 missing values generated)
    m=1:
    m=2:
    m=3:
    m=4:
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300 .
301 . *Now let's redo the analyses with the imputed data
302 . *Here are the balance analyses again, this time with the more limited set of variables:
303 . *Clemson - more political interest in the after-game group
304 . mi estimate: logit post age year gpa topchoice alum income gender white cath ido pid interest wc

Multiple-imputation estimates                   Imputations       =        200
Logistic regression                             Number of obs     =        202
                                                Average RVI       =     0.0459
                                                Largest FMI       =     0.1145
DF adjustment:   Large sample                   DF:     min       =  15,210.19
                                                        avg       = 879,596.81
                                                        max       =   1.09e+07
Model F test:       Equal FMI                   F(  13, 1.2e+06)  =       1.07
Within VCE type:          OIM                   Prob > F          =     0.3774

------------------------------------------------------------------------------
        post |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .0547386   .0452648     1.21   0.227    -.0339816    .1434589
        year |   .0136994   .1332362     0.10   0.918     -.247443    .2748419
         gpa |  -.5035337   .3848713    -1.31   0.191    -1.257914    .2508467
   topchoice |  -.5622205   .3313689    -1.70   0.090    -1.211696    .0872551
        alum |   .1974875   .3618005     0.55   0.585    -.5116349    .9066099
      income |   .0662348   .1414466     0.47   0.640    -.2110008    .3434704
      gender |   .4217727   .3134688     1.35   0.178    -.1926216    1.036167
       white |   .0875438   .4047777     0.22   0.829    -.7058076    .8808951
        cath |  -.2774342    .406656    -0.68   0.495    -1.074465     .519597
         ido |   .1327149   .1600912     0.83   0.407    -.1810832    .4465129
         pid |   .0382616   .1566703     0.24   0.807    -.2688211    .3453443
    interest |   .4366707   .2328011     1.88   0.061    -.0196181    .8929596
      wchamp |  -.1056121   .7096291    -0.15   0.882    -1.496476    1.285252
       _cons |   -1.25167   1.750875    -0.71   0.475     -4.68341     2.18007
------------------------------------------------------------------------------
```

```
305 . *Alabama - significant predictors of age (more likely to be farther along in after-game), income
306 . mi estimate: logit post age year gpa topchoice alum income gender white cath ido pid interest wc
```

Multiple-imputation estimates — Imputations = 200
Logistic regression — Number of obs = 182
Average RVI = 0.0452
Largest FMI = 0.2299
DF adjustment: **Large sample** — DF: min = 3,779.15
avg = 657,481.20
max = 6410518.86
Model F test: **Equal FMI** — F( 13, 1.2e+06) = 0.56
Within VCE type: **OIM** — Prob > F = 0.8890

| post | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| age | .0285447 | .0289716 | 0.99 | 0.324 | -.0282391 | .0853285 |
| year | .0702623 | .1272105 | 0.55 | 0.581 | -.1790673 | .3195919 |
| gpa | .2534939 | .3790254 | 0.67 | 0.504 | -.4893951 | .9963828 |
| topchoice | .153377 | .3425329 | 0.45 | 0.654 | -.5179788 | .8247329 |
| alum | -.1313023 | .3523971 | -0.37 | 0.709 | -.8219937 | .559389 |
| income | .2745597 | .1525887 | 1.80 | 0.072 | -.0245203 | .5736398 |
| gender | .0054102 | .3470596 | 0.02 | 0.988 | -.6748158 | .6856361 |
| white | -.0527824 | .477511 | -0.11 | 0.912 | -.9886879 | .883123 |
| cath | .1980003 | .4102416 | 0.48 | 0.629 | -.6060586 | 1.002059 |
| ido | -.0316285 | .1908042 | -0.17 | 0.868 | -.4057177 | .3424608 |
| pid | .0120917 | .1786082 | 0.07 | 0.946 | -.3380329 | .3622164 |
| interest | -.3181081 | .2373399 | -1.34 | 0.180 | -.7832881 | .147072 |
| wchamp | .0881346 | .5755264 | 0.15 | 0.878 | -1.039885 | 1.216154 |
| _cons | -2.334172 | 1.581266 | -1.48 | 0.140 | -5.43343 | .7650864 |

```
307 . *Oklahoma - suggestive result on income (richer in before-game)
308 . mi estimate: logit post age year gpa topchoice alum income gender white cath ido pid interest wc
```

Multiple-imputation estimates — Imputations = 200
Logistic regression — Number of obs = 61
Average RVI = 0.0739
Largest FMI = 0.3234
DF adjustment: **Large sample** — DF: min = 1,910.83
avg = 54,765.92
max = 166,714.74
Model F test: **Equal FMI** — F( 13,480889.1) = 0.58
Within VCE type: **OIM** — Prob > F = 0.8742

| post | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| age | -.0944352 | .0854967 | -1.10 | 0.269 | -.2620104 | .0731399 |
| year | .2808849 | .3017607 | 0.93 | 0.352 | -.3105707 | .8723404 |
| gpa | .2617379 | .6018121 | 0.43 | 0.664 | -.9178291 | 1.441305 |
| topchoice | .3038303 | .6959049 | 0.44 | 0.662 | -1.060158 | 1.667819 |
| alum | .7927179 | .7143767 | 1.11 | 0.267 | -.60745 | 2.192886 |
| income | -.9191781 | .3683396 | -2.50 | 0.013 | -1.641146 | -.1972106 |
| gender | -.016606 | .7295487 | -0.02 | 0.982 | -1.446545 | 1.413333 |
| white | .7140575 | .7693245 | 0.93 | 0.353 | -.793804 | 2.221919 |
| cath | -.2243931 | .9673618 | -0.23 | 0.817 | -2.120401 | 1.671615 |
| ido | -.0374673 | .4180484 | -0.09 | 0.929 | -.8573464 | .7824117 |
| pid | .25036 | .4169546 | 0.60 | 0.548 | -.5671484 | 1.067868 |
| interest | .5116177 | .4917833 | 1.04 | 0.298 | -.452289 | 1.475524 |
| wchamp | .1512271 | .752021 | 0.20 | 0.841 | -1.322745 | 1.625199 |
| _cons | -.6079069 | 3.241642 | -0.19 | 0.851 | -6.961675 | 5.745862 |

```
309 . *MSU - no significant predictors
310 . mi estimate: logit post age year gpa topchoice alum income gender white cath ido pid interest wc
```

Multiple-imputation estimates — Imputations = 200
Logistic regression — Number of obs = 194
Average RVI = 0.0645
Largest FMI = 0.2216
DF adjustment: **Large sample** — DF: min = 4,067.65
avg = 87,173.86
max = 290,173.66
Model F test: **Equal FMI** — F( 13,615596.4) = 0.70
Within VCE type: **OIM** — Prob > F = 0.7652

| post | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| age | .03349 | .063439 | 0.53 | 0.598 | -.0908636 | .1578435 |
| year | .0469611 | .1585785 | 0.30 | 0.767 | -.263861 | .3577832 |
| gpa | -.0894873 | .334188 | -0.27 | 0.789 | -.7444942 | .5655196 |
| topchoice | .7167678 | .3586081 | 2.00 | 0.046 | .0138993 | 1.419636 |
| alum | .0232163 | .3408795 | 0.07 | 0.946 | -.6449028 | .6913353 |
| income | .111591 | .1445686 | 0.77 | 0.440 | -.1717646 | .3949467 |
| gender | -.0678745 | .3259499 | -0.21 | 0.835 | -.7067295 | .5709805 |
| white | .0261894 | .3891104 | 0.07 | 0.946 | -.7364574 | .7888362 |
| cath | -.4393505 | .3818564 | -1.15 | 0.250 | -1.187778 | .3090773 |
| ido | .1208569 | .2002787 | 0.60 | 0.546 | -.271799 | .5135127 |
| pid | -.1584589 | .1931893 | -0.82 | 0.412 | -.5371648 | .2202471 |
| interest | -.1710599 | .2306424 | -0.74 | 0.458 | -.6231181 | .2809984 |
| wchamp | .3481844 | .355462 | 0.98 | 0.327 | -.3485183 | 1.044887 |
| _cons | -.7240888 | 1.765599 | -0.41 | 0.682 | -4.184754 | 2.736577 |

```
311 .
312 . *Clemson models, controlling for political interest
313 . mi estimate: regress papprove i.condition interest if condition==1 | condition == 2
```

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 202
Average RVI = 0.0107
Largest FMI = 0.0316
Complete DF = 199
DF adjustment: **Small sample** — DF: min = 190.71
avg = 193.15
max = 196.89
Model F test: **Equal FMI** — F( 2, 196.9) = 1.45
Within VCE type: **OLS** — Prob > F = 0.2375

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| 2.condition | -.4630368 | .2795788 | -1.66 | 0.099 | -1.01439 | .0883165 |
| interest | -.0458091 | .2067619 | -0.22 | 0.825 | -.4536429 | .3620247 |
| _cons | 3.91783 | .4608674 | 8.50 | 0.000 | 3.008813 | 4.826848 |

```
314 . mi estimate: regress collsat i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        202
                                                Average RVI       =     0.0182
                                                Largest FMI       =     0.0337
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =     190.28
                                                        avg       =     192.03
                                                        max       =     195.01
Model F test:       Equal FMI                   F(   2,  196.9)   =       2.77
Within VCE type:          OLS                   Prob > F          =     0.0652

------------------------------------------------------------------------------
     collsat |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |  -.4229028   .2247449    -1.88   0.061    -.8661454    .0203398
    interest |  -.1928436   .1656002    -1.16   0.246    -.5194915    .1338043
       _cons |   6.275687   .3696948    16.98   0.000     5.546473    7.004901
------------------------------------------------------------------------------

315 . mi estimate: regress popefav i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        202
                                                Average RVI       =     0.0099
                                                Largest FMI       =     0.0290
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =     191.25
                                                        avg       =     193.47
                                                        max       =     196.86
Model F test:       Equal FMI                   F(   2,  196.9)   =       0.13
Within VCE type:          OLS                   Prob > F          =     0.8765

------------------------------------------------------------------------------
     popefav |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |  -.0032926    .104566    -0.03   0.975     -.209506    .2029208
    interest |   .0392898   .0772238     0.51   0.611    -.1130299    .1916094
       _cons |   3.017661   .1721663    17.53   0.000     2.678084    3.357237
------------------------------------------------------------------------------

316 . mi estimate: regress lifesat i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        202
                                                Average RVI       =     0.0472
                                                Largest FMI       =     0.0803
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =     180.37
                                                        avg       =     184.88
                                                        max       =     191.64
Model F test:       Equal FMI                   F(   2,  196.5)   =       0.24
Within VCE type:          OLS                   Prob > F          =     0.7866

------------------------------------------------------------------------------
     lifesat |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |   .1412979   .2591649     0.55   0.586    -.3698842     .65248
    interest |   .0695738   .1940389     0.36   0.720    -.3133045     .452452
       _cons |   7.091501   .4313197    16.44   0.000     6.240491    7.942511
------------------------------------------------------------------------------
```

```
317 . mi estimate: regress econstat i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        202
                                                Average RVI       =     0.0142
                                                Largest FMI       =     0.0412
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =     188.73
                                                        avg       =     191.88
                                                        max       =     196.83
Model F test:       Equal FMI                   F(   2,  196.9)   =       0.49
Within VCE type:          OLS                   Prob > F          =     0.6114

------------------------------------------------------------------------------
    econstat |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |    .127632   .1521759     0.84   0.403    -.1724724    .4277364
    interest |    -.07257   .1130795    -0.64   0.522    -.2956321    .1504921
       _cons |   2.981834   .2519202    11.84   0.000     2.484916    3.478752
------------------------------------------------------------------------------

318 . mi estimate: regress collid i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        202
                                                Average RVI       =     0.0251
                                                Largest FMI       =     0.0495
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =     186.98
                                                        avg       =     190.01
                                                        max       =     194.58
Model F test:       Equal FMI                   F(   2,  196.8)   =       0.17
Within VCE type:          OLS                   Prob > F          =     0.8458

------------------------------------------------------------------------------
      collid |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |   -.023322   .1582129    -0.15   0.883    -.3353544    .2887104
    interest |   .0668053   .1174035     0.57   0.570    -.1648003    .2984109
       _cons |   3.479796   .2614763    13.31   0.000     2.963999    3.995592
------------------------------------------------------------------------------

319 . mi estimate: regress postsm i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        194
                                                Average RVI       =     0.0008
                                                Largest FMI       =     0.0026
                                                Complete DF       =        191
DF adjustment:   Small sample                   DF:     min       =     188.57
                                                        avg       =     188.74
                                                        max       =     189.01
Model F test:       Equal FMI                   F(   2,  189.0)   =       1.15
Within VCE type:          OLS                   Prob > F          =     0.3188

------------------------------------------------------------------------------
      postsm |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |  -.1940178   .1793187    -1.08   0.281    -.5477409    .1597053
    interest |  -.1188039   .1307886    -0.91   0.365    -.3768006    .1391929
       _cons |   2.230059   .2914101     7.65   0.000     1.655218      2.8049
------------------------------------------------------------------------------
```

```
320 . mi estimate: regress pospan i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        202
                                                Average RVI       =     0.0604
                                                Largest FMI       =     0.0749
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =     181.53
                                                        avg       =     184.42
                                                        max       =     186.38
Model F test:       Equal FMI                   F(   2,  196.4)   =       3.54
Within VCE type:          OLS                   Prob > F          =     0.0310

------------------------------------------------------------------------------
      pospan |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |  -.2805013    .124409    -2.25   0.025    -.5259321   -.0350705
    interest |   .1555529   .0916757     1.70   0.091     -.025334    .3364399
       _cons |   2.963952   .2030023    14.60   0.000      2.56346    3.364444
------------------------------------------------------------------------------

321 . mi estimate: regress negpan i.condition interest if condition==1 | condition == 2

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        202
                                                Average RVI       =     0.0539
                                                Largest FMI       =     0.0554
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =     185.72
                                                        avg       =     187.13
                                                        max       =     188.26
Model F test:       Equal FMI                   F(   2,  196.6)   =       7.46
Within VCE type:          OLS                   Prob > F          =     0.0008

------------------------------------------------------------------------------
      negpan |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 2.condition |   .3062489   .0947779     3.23   0.001     .1192803    .4932175
    interest |   .1163821    .069307     1.68   0.095    -.0203481    .2531123
       _cons |   1.413496   .1539535     9.18   0.000     1.109801    1.717192
------------------------------------------------------------------------------

322 .
323 .
324 . *Over time effects with the imputed data
325 . *Looking for significance on the after game group (condition 2) and negative
326 . *estimates which means that the T2 measure is higher (suggesting fading effects)
327 . mi estimate, level(98): mean diff_pap_i if condition == 1 | condition == 2, over(condition)

Multiple-imputation estimates     Imputations     =        200
Mean estimation                   Number of obs   =        202
                                  Average RVI     =     0.3757
                                  Largest FMI     =     0.3176
                                  Complete DF     =        201
DF adjustment:   Small sample     DF:     min     =     127.94
                                          avg     =     137.91
Within VCE type:     Analytic             max     =     147.87

            1: condition = 1
            2: condition = 2
```

| Over | Mean | Std. Err. | [98% Conf. | Interval] |
|---|---|---|---|---|
| 1 | .0150485 | .1114463 | -.247502 | .277599 |
| 2 | -.4355423 | .1545505 | -.7990188 | -.0720658 |

328 . mi estimate, level(90): mean diff_pap_i if condition == 1 | condition == 2, over(condition)

Multiple-imputation estimates — Imputations = 200
Mean estimation — Number of obs = 202
Average RVI = 0.3757
Largest FMI = 0.3176
Complete DF = 201
DF adjustment: Small sample — DF: min = 127.94
avg = 137.91
Within VCE type: Analytic — max = 147.87

1: condition = 1
2: condition = 2

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| 1 | .0150485 | .1114463 | -.1696014 | .1996984 |
| 2 | -.4355423 | .1545505 | -.691358 | -.1797267 |

329 . mi estimate, level(98): mean diff_collsat_i if condition == 1 | condition == 2, over(condition)

Multiple-imputation estimates — Imputations = 200
Mean estimation — Number of obs = 202
Average RVI = 0.2984
Largest FMI = 0.2681
Complete DF = 201
DF adjustment: Small sample — DF: min = 139.11
avg = 147.73
Within VCE type: Analytic — max = 156.35

1: condition = 1
2: condition = 2

| Over | Mean | Std. Err. | [98% Conf. | Interval] |
|---|---|---|---|---|
| 1 | -.0913087 | .1449614 | -.4324684 | .249851 |
| 2 | -.4302198 | .1663496 | -.8212135 | -.0392261 |

330 . mi estimate, level(90): mean diff_collsat_i if condition == 1 | condition == 2, over(condition)

Multiple-imputation estimates — Imputations = 200
Mean estimation — Number of obs = 202
Average RVI = 0.2984
Largest FMI = 0.2681
Complete DF = 201
DF adjustment: Small sample — DF: min = 139.11
avg = 147.73
Within VCE type: Analytic — max = 156.35

1: condition = 1
2: condition = 2

| Over | Mean | Std. Err. | [90% Conf. | Interval] |
|---|---|---|---|---|
| 1 | -.0913087 | .1449614 | -.3313475 | .1487301 |
| 2 | -.4302198 | .1663496 | -.7054714 | -.1549682 |

```
331 .
332 . *With controlss (for this, we use the imputed data)
333 . *Models with control varaibles
334 . *Pres approval
335 . mi estimate: regress papprove post age year gpa income gender cath pid interest wcham
```

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 639
Average RVI = 0.0333
Largest FMI = 0.0617
Complete DF = 628
DF adjustment: **Small sample** — DF: min = 581.05
avg = 601.64
max = 619.05
Model F test: **Equal FMI** — F( 10, 625.6) = 50.40
Within VCE type: **OLS** — Prob > F = 0.0000

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.0714793 | .1136575 | -0.63 | 0.530 | -.2946833 | .1517248 |
| age | -.0221977 | .0130632 | -1.70 | 0.090 | -.0478524 | .003457 |
| year | .0159186 | .0477308 | 0.33 | 0.739 | -.0778201 | .1096574 |
| gpa | .0346545 | .1240539 | 0.28 | 0.780 | -.2089942 | .2783033 |
| income | -.0433307 | .0494366 | -0.88 | 0.381 | -.1404251 | .0537638 |
| gender | -.1421181 | .1182666 | -1.20 | 0.230 | -.3743848 | .0901485 |
| cath | .1339079 | .143224 | 0.93 | 0.350 | -.1473558 | .4151716 |
| pid | -.718445 | .033802 | -21.25 | 0.000 | -.7848278 | -.6520622 |
| interest | -.0595675 | .0836598 | -0.71 | 0.477 | -.2238693 | .1047344 |
| wchamp | -.2847334 | .1529176 | -1.86 | 0.063 | -.5850449 | .015578 |
| _cons | 7.810604 | .5322945 | 14.67 | 0.000 | 6.765193 | 8.856015 |

```
336 . mi estimate: regress papprove post age year gpa income gender cath pid interest wcham if conditi
```

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 202
Average RVI = 0.0385
Largest FMI = 0.0919
Complete DF = 191
DF adjustment: **Small sample** — DF: min = 170.65
avg = 180.39
max = 188.28
Model F test: **Equal FMI** — F( 10, 188.8) = 13.38
Within VCE type: **OLS** — Prob > F = 0.0000

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.2499423 | .2251544 | -1.11 | 0.268 | -.6941283 | .1942437 |
| age | -.0067673 | .0287585 | -0.24 | 0.814 | -.0635139 | .0499794 |
| year | .1336813 | .093711 | 1.43 | 0.155 | -.0512344 | .3185971 |
| gpa | -.0126889 | .2736945 | -0.05 | 0.963 | -.5529516 | .5275738 |
| income | -.1001577 | .0986785 | -1.01 | 0.311 | -.2948869 | .0945715 |
| gender | -.098781 | .2269493 | -0.44 | 0.664 | -.5466144 | .3490524 |
| cath | -.0275917 | .285667 | -0.10 | 0.923 | -.591111 | .5359275 |
| pid | -.6901401 | .0689317 | -10.01 | 0.000 | -.8261429 | -.5541373 |
| interest | -.1145104 | .1672884 | -0.68 | 0.495 | -.44461 | .2155892 |
| wchamp | -.0554933 | .5131838 | -0.11 | 0.914 | -1.068001 | .9570141 |
| _cons | 7.104123 | 1.208604 | 5.88 | 0.000 | 4.718878 | 9.489367 |

337 . mi estimate: regress papprove post age year gpa income gender cath pid interest wcham if conditi

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 182
Average RVI = 0.0292
Largest FMI = 0.0629
Complete DF = 171
DF adjustment: **Small sample** — DF: min = 158.06
avg = 163.49
max = 166.61
Model F test: **Equal FMI** — F( 10, 168.9) = 27.72
Within VCE type: **OLS** — Prob > F = 0.0000

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .1216457 | .1885259 | 0.65 | 0.520 | -.2505639 | .4938554 |
| age | -.0173283 | .0160423 | -1.08 | 0.282 | -.0490006 | .014344 |
| year | .011082 | .0739264 | 0.15 | 0.881 | -.1348781 | .1570422 |
| gpa | .0564798 | .2142162 | 0.26 | 0.792 | -.3666156 | .4795753 |
| income | .02877 | .0838284 | 0.34 | 0.732 | -.1367975 | .1943376 |
| gender | .0726948 | .1996537 | 0.36 | 0.716 | -.3215014 | .466891 |
| cath | .1166397 | .2430262 | 0.48 | 0.632 | -.3631747 | .596454 |
| pid | -.80484 | .0529955 | -15.19 | 0.000 | -.9094807 | -.7001993 |
| interest | -.2092833 | .1388781 | -1.51 | 0.134 | -.4835035 | .0649368 |
| wchamp | -.6378625 | .3298034 | -1.93 | 0.055 | -1.289117 | .013392 |
| _cons | 8.047833 | .8964887 | 8.98 | 0.000 | 6.277453 | 9.818213 |

338 . mi estimate: regress papprove post age year gpa income gender cath pid interest wcham if conditi

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 61
Average RVI = 0.0196
Largest FMI = 0.0364
Complete DF = 50
DF adjustment: **Small sample** — DF: min = 46.48
avg = 46.88
max = 47.63
Model F test: **Equal FMI** — F( 10, 48.0) = 5.68
Within VCE type: **OLS** — Prob > F = 0.0000

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.2742944 | .3883291 | -0.71 | 0.483 | -1.055396 | .5068071 |
| age | -.0282241 | .0477503 | -0.59 | 0.557 | -.1242985 | .0678503 |
| year | -.1720357 | .169042 | -1.02 | 0.314 | -.5121564 | .1680849 |
| gpa | -.4013173 | .3502929 | -1.15 | 0.258 | -1.106225 | .3035903 |
| income | -.1206206 | .1819333 | -0.66 | 0.511 | -.4866735 | .2454323 |
| gender | .1944997 | .4204217 | 0.46 | 0.646 | -.6512634 | 1.040263 |
| cath | .1595699 | .5418606 | 0.29 | 0.770 | -.9301325 | 1.249272 |
| pid | -.5638804 | .1268063 | -4.45 | 0.000 | -.8190236 | -.3087372 |
| interest | .636425 | .2863301 | 2.22 | 0.031 | .0602843 | 1.212566 |
| wchamp | .4400919 | .4346853 | 1.01 | 0.317 | -.4344664 | 1.31465 |
| _cons | 7.469317 | 1.843979 | 4.05 | 0.000 | 3.759398 | 11.17924 |

```
339 . mi estimate: regress papprove post age year gpa income gender cath pid interest wcham if conditi

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        194
                                                Average RVI       =     0.0414
                                                Largest FMI       =     0.1195
                                                Complete DF       =        183
DF adjustment:   Small sample                   DF:     min       =     157.91
                                                        avg       =     172.10
                                                        max       =     178.64
Model F test:       Equal FMI                   F(  10,  180.8)   =       7.71
Within VCE type:          OLS                   Prob > F          =     0.0000
```

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.225263 | .1997159 | -1.13 | 0.261 | -.6193687 | .1688428 |
| age | -.0789815 | .038861 | -2.03 | 0.044 | -.1557359 | -.002227 |
| year | .0519522 | .0994749 | 0.52 | 0.602 | -.1444197 | .248324 |
| gpa | .1092088 | .2082993 | 0.52 | 0.601 | -.3019179 | .5203355 |
| income | -.1144429 | .0901234 | -1.27 | 0.206 | -.2923299 | .0634441 |
| gender | -.1672945 | .2100798 | -0.80 | 0.427 | -.5819122 | .2473233 |
| cath | -.1410744 | .2455727 | -0.57 | 0.566 | -.6256975 | .3435488 |
| pid | -.4880251 | .0672728 | -7.25 | 0.000 | -.6207923 | -.3552578 |
| interest | .1714388 | .148477 | 1.15 | 0.250 | -.1216174 | .4644951 |
| wchamp | -.1215933 | .2307791 | -0.53 | 0.599 | -.5770971 | .3339104 |
| _cons | 7.945778 | 1.091983 | 7.28 | 0.000 | 5.789942 | 10.10161 |

```
340 .
341 . *College satisfaction
342 . mi estimate: regress collsat post age year gpa topchoice alum income gender pid interest wchamp

Multiple-imputation estimates                   Imputations       =        200
Linear regression                               Number of obs     =        639
                                                Average RVI       =     0.0307
                                                Largest FMI       =     0.0855
                                                Complete DF       =        626
DF adjustment:   Small sample                   DF:     min       =     559.23
                                                        avg       =     600.12
                                                        max       =     618.00
Model F test:       Equal FMI                   F(  12,  623.7)   =       9.50
Within VCE type:          OLS                   Prob > F          =     0.0000
```

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.0157076 | .1097544 | -0.14 | 0.886 | -.2312442 | .1998291 |
| age | -.0106254 | .0127946 | -0.83 | 0.407 | -.0357536 | .0145028 |
| year | .0441313 | .045999 | 0.96 | 0.338 | -.0462067 | .1344693 |
| gpa | .155531 | .1223996 | 1.27 | 0.204 | -.0848881 | .39595 |
| topchoice | .032131 | .1215948 | 0.26 | 0.792 | -.206665 | .270927 |
| alum | .1098785 | .1173129 | 0.94 | 0.349 | -.1205059 | .3402629 |
| income | -.001373 | .0479047 | -0.03 | 0.977 | -.0954586 | .0927126 |
| gender | -.0506702 | .1136408 | -0.45 | 0.656 | -.2738487 | .1725083 |
| pid | .0237307 | .0328638 | 0.72 | 0.471 | -.0408098 | .0882712 |
| interest | -.0465813 | .0810328 | -0.57 | 0.566 | -.2057262 | .1125636 |
| wchamp | -.0352699 | .148306 | -0.24 | 0.812 | -.3265213 | .2559816 |
| collid | .4874006 | .0502432 | 9.70 | 0.000 | .3887317 | .5860695 |
| _cons | 3.537382 | .5565662 | 6.36 | 0.000 | 2.444279 | 4.630486 |

```
343 . mi estimate: regress collsat post age year gpa topchoice alum income gender pid interest wchamp
```

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 202
Average RVI = 0.0333
Largest FMI = 0.1204
Complete DF = 189
DF adjustment: **Small sample** — DF: min = 162.88
avg = 179.45
max = 184.31
Model F test: **Equal FMI** — F( 12, 186.9) = 2.87
Within VCE type: **OLS** — Prob > F = 0.0012

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.4946552 | .2214072 | -2.23 | 0.027 | -.9314736 | -.0578368 |
| age | -.0131493 | .0279921 | -0.47 | 0.639 | -.0683836 | .042085 |
| year | -.0048397 | .0917469 | -0.05 | 0.958 | -.1859022 | .1762228 |
| gpa | .1952467 | .2724492 | 0.72 | 0.475 | -.3427412 | .7332345 |
| topchoice | -.3972041 | .2369279 | -1.68 | 0.095 | -.8646631 | .070255 |
| alum | .4829957 | .2419232 | 2.00 | 0.047 | .0056898 | .9603016 |
| income | .0259867 | .096271 | 0.27 | 0.788 | -.1639984 | .2159717 |
| gender | -.0459546 | .2199935 | -0.21 | 0.835 | -.4800291 | .3881198 |
| pid | .1291935 | .0691547 | 1.87 | 0.063 | -.0072536 | .2656406 |
| interest | -.1669521 | .1626867 | -1.03 | 0.306 | -.4879536 | .1540494 |
| wchamp | .0852522 | .5148682 | 0.17 | 0.869 | -.9306529 | 1.101157 |
| collid | .3521995 | .1017248 | 3.46 | 0.001 | .1515043 | .5528946 |
| _cons | 4.032141 | 1.217457 | 3.31 | 0.001 | 1.629296 | 6.434986 |

```
344 . mi estimate: regress collsat post age year gpa topchoice alum income gender pid interest wchamp
```

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 182
Average RVI = 0.0170
Largest FMI = 0.0501
Complete DF = 169
DF adjustment: **Small sample** — DF: min = 158.49
avg = 163.73
max = 166.05
Model F test: **Equal FMI** — F( 12, 167.0) = 3.66
Within VCE type: **OLS** — Prob > F = 0.0001

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .0745083 | .2242569 | 0.33 | 0.740 | -.368254 | .5172706 |
| age | -.0139056 | .0192773 | -0.72 | 0.472 | -.0519669 | .0241557 |
| year | .1434863 | .088257 | 1.63 | 0.106 | -.0307734 | .317746 |
| gpa | .4184272 | .2548836 | 1.64 | 0.103 | -.0849576 | .9218119 |
| topchoice | -.1515439 | .2460459 | -0.62 | 0.539 | -.6373537 | .3342659 |
| alum | -.227194 | .2452699 | -0.93 | 0.356 | -.7114653 | .2570773 |
| income | -.1263497 | .1002902 | -1.26 | 0.210 | -.3244273 | .071728 |
| gender | -.1466572 | .2384339 | -0.62 | 0.539 | -.6174323 | .324118 |
| pid | -.0060626 | .0628815 | -0.10 | 0.923 | -.1302164 | .1180912 |
| interest | .0908816 | .1651981 | 0.55 | 0.583 | -.2353028 | .4170659 |
| wchamp | .5272137 | .4011815 | 1.31 | 0.191 | -.26499 | 1.319417 |
| collid | .5712853 | .1037832 | 5.50 | 0.000 | .3663731 | .7761976 |
| _cons | 2.04201 | 1.131722 | 1.80 | 0.073 | -.1928104 | 4.27683 |

```
345 . mi estimate: regress collsat post age year gpa topchoice alum income gender pid interest wchamp
```

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 61
Average RVI = 0.0047
Largest FMI = 0.0132
Complete DF = 48
DF adjustment: **Small sample** — DF: min = 45.60
avg = 45.87
max = 46.03
Model F test: **Equal FMI** — F( 12, 46.1) = 2.08
Within VCE type: **OLS** — Prob > F = 0.0375

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .4561348 | .3556595 | 1.28 | 0.206 | -.2597802 | 1.17205 |
| age | .0210712 | .0442827 | 0.48 | 0.636 | -.0680662 | .1102086 |
| year | -.0801326 | .1502841 | -0.53 | 0.596 | -.3826656 | .2224003 |
| gpa | -.2160933 | .3162205 | -0.68 | 0.498 | -.8527623 | .4205757 |
| topchoice | .7175401 | .3605128 | 1.99 | 0.053 | -.0082325 | 1.443313 |
| alum | -.0819351 | .3644111 | -0.22 | 0.823 | -.8154839 | .6516136 |
| income | .1340286 | .1747127 | 0.77 | 0.447 | -.2176742 | .4857315 |
| gender | -.0804626 | .3674654 | -0.22 | 0.828 | -.820143 | .6592178 |
| pid | -.1819934 | .1114328 | -1.63 | 0.109 | -.4063163 | .0423294 |
| interest | -.1338979 | .2659006 | -0.50 | 0.617 | -.6691836 | .4013878 |
| wchamp | .0279987 | .3790339 | 0.07 | 0.941 | -.7349418 | .7909391 |
| collid | .4561306 | .1426115 | 3.20 | 0.003 | .1690415 | .7432197 |
| _cons | 4.569 | 1.839565 | 2.48 | 0.017 | .8657111 | 8.272289 |

```
346 . mi estimate: regress collsat post age year gpa topchoice alum income gender pid interest wchamp
```

Multiple-imputation estimates — Imputations = 200
Linear regression — Number of obs = 194
Average RVI = 0.0982
Largest FMI = 0.2874
Complete DF = 181
DF adjustment: **Small sample** — DF: min = 121.93
avg = 158.08
max = 174.93
Model F test: **Equal FMI** — F( 12, 178.5) = 5.40
Within VCE type: **OLS** — Prob > F = 0.0000

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .1596224 | .1685528 | 0.95 | 0.345 | -.1730363 | .4922811 |
| age | -.003775 | .0351955 | -0.11 | 0.915 | -.0734485 | .0658984 |
| year | .0622549 | .0846412 | 0.74 | 0.463 | -.1049681 | .2294779 |
| gpa | .1515878 | .1855903 | 0.82 | 0.415 | -.2151203 | .5182959 |
| topchoice | .2592825 | .1907243 | 1.36 | 0.176 | -.1172327 | .6357978 |
| alum | -.0542696 | .1775215 | -0.31 | 0.760 | -.4047427 | .2962036 |
| income | .1020409 | .0773851 | 1.32 | 0.189 | -.0508454 | .2549272 |
| gender | .0672823 | .1747 | 0.39 | 0.701 | -.2776992 | .4122638 |
| pid | -.016313 | .0556965 | -0.29 | 0.770 | -.1262826 | .0936566 |
| interest | -.0013209 | .1268659 | -0.01 | 0.992 | -.251932 | .2492902 |
| wchamp | -.0784066 | .1900084 | -0.41 | 0.680 | -.4535378 | .2967247 |
| collid | .5602133 | .0782292 | 7.16 | 0.000 | .405815 | .7146116 |
| _cons | 2.696593 | 1.013305 | 2.66 | 0.009 | .6938052 | 4.699381 |

```
347 .
348 . *Unimputed
349 . *Pres approval
350 . regress papprove post age year gpa income gender cath pid interest wchamp
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| | | | | Number of obs | = 578 |
| | | | | F(10, 567) | = 45.30 |
| Model | 921.490638 | 10 | 92.1490638 | Prob > F | = 0.0000 |
| Residual | 1153.38999 | 567 | 2.0341975 | R-squared | = 0.4441 |
| | | | | Adj R-squared | = 0.4343 |
| Total | 2074.88062 | 577 | 3.59598028 | Root MSE | = 1.4263 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.0930041 | .1193688 | -0.78 | 0.436 | -.3274631 | .1414549 |
| age | -.0211893 | .0136654 | -1.55 | 0.122 | -.0480302 | .0056517 |
| year | .0143293 | .0501669 | 0.29 | 0.775 | -.0842064 | .1128649 |
| gpa | .0310397 | .1280487 | 0.24 | 0.809 | -.2204681 | .2825475 |
| income | -.0545288 | .0507234 | -1.08 | 0.283 | -.1541574 | .0450999 |
| gender | -.1804096 | .1225659 | -1.47 | 0.142 | -.4211482 | .0603289 |
| cath | .089808 | .1505341 | 0.60 | 0.551 | -.2058646 | .3854806 |
| pid | -.705481 | .0353086 | -19.98 | 0.000 | -.7748327 | -.6361293 |
| interest | -.0310574 | .0866056 | -0.36 | 0.720 | -.2011644 | .1390496 |
| wchamp | -.2886355 | .1586919 | -1.82 | 0.069 | -.6003313 | .0230603 |
| _cons | 7.78912 | .5556246 | 14.02 | 0.000 | 6.697786 | 8.880454 |

```
351 . regress papprove post age year gpa income gender cath pid interest wcham if condition == 1 | con
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| | | | | Number of obs | = 180 |
| | | | | F(10, 169) | = 12.96 |
| Model | 304.861023 | 10 | 30.4861023 | Prob > F | = 0.0000 |
| Residual | 397.450088 | 169 | 2.35177567 | R-squared | = 0.4341 |
| | | | | Adj R-squared | = 0.4006 |
| Total | 702.311111 | 179 | 3.92352576 | Root MSE | = 1.5336 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.3468163 | .2349426 | -1.48 | 0.142 | -.8106165 | .1169839 |
| age | -.0030522 | .0301603 | -0.10 | 0.920 | -.0625916 | .0564872 |
| year | .1260847 | .0973081 | 1.30 | 0.197 | -.0660113 | .3181807 |
| gpa | -.0473956 | .2813502 | -0.17 | 0.866 | -.6028092 | .508018 |
| income | -.1133719 | .1016435 | -1.12 | 0.266 | -.3140264 | .0872827 |
| gender | -.1609873 | .2326916 | -0.69 | 0.490 | -.620344 | .2983693 |
| cath | -.2021418 | .2983855 | -0.68 | 0.499 | -.7911847 | .3869011 |
| pid | -.6908607 | .0714614 | -9.67 | 0.000 | -.8319326 | -.5497888 |
| interest | -.1354016 | .1740671 | -0.78 | 0.438 | -.4790275 | .2082244 |
| wchamp | .0935304 | .5395312 | 0.17 | 0.863 | -.9715584 | 1.158619 |
| _cons | 7.263558 | 1.242589 | 5.85 | 0.000 | 4.810563 | 9.716554 |

```
352 . regress papprove post age year gpa income gender cath pid interest wcham if condition == 3 | con
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| | | | | Number of obs | = 162 |
| | | | | F(10, 151) | = 24.18 |
| Model | 363.852502 | 10 | 36.3852502 | Prob > F | = 0.0000 |
| Residual | 227.258609 | 151 | 1.5050239 | R-squared | = 0.6155 |
| | | | | Adj R-squared | = 0.5901 |
| Total | 591.111111 | 161 | 3.67149758 | Root MSE | = 1.2268 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .1777981 | .2010775 | 0.88 | 0.378 | -.2194906 | .5750868 |
| age | -.0146792 | .0169153 | -0.87 | 0.387 | -.0481005 | .0187421 |
| year | .0176908 | .0791942 | 0.22 | 0.824 | -.1387809 | .1741626 |
| gpa | .0654186 | .2264896 | 0.29 | 0.773 | -.3820793 | .5129165 |
| income | .0139053 | .0867686 | 0.16 | 0.873 | -.1575321 | .1853426 |
| gender | .0274886 | .2110069 | 0.13 | 0.897 | -.3894186 | .4443958 |
| cath | .0811958 | .2649689 | 0.31 | 0.760 | -.4423295 | .6047211 |
| pid | -.7868553 | .0554452 | -14.19 | 0.000 | -.8964038 | -.6773068 |
| interest | -.1363516 | .1468404 | -0.93 | 0.355 | -.4264787 | .1537755 |
| wchamp | -.6615795 | .3340377 | -1.98 | 0.049 | -1.321571 | -.0015882 |
| _cons | 7.773076 | .9452306 | 8.22 | 0.000 | 5.90549 | 9.640661 |

353 . regress papprove post age year gpa income gender cath pid interest wcham if condition == 5 | con

| Source | SS | df | MS | Number of obs | = | 58 |
|---|---|---|---|---|---|---|
| | | | | F(10, 47) | = | 5.58 |
| Model | 107.154477 | 10 | 10.7154477 | Prob > F | = | 0.0000 |
| Residual | 90.2420743 | 47 | 1.92004413 | R-squared | = | 0.5428 |
| | | | | Adj R-squared | = | 0.4456 |
| Total | 197.396552 | 57 | 3.4630974 | Root MSE | = | 1.3857 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.377302 | .4007752 | -0.94 | 0.351 | -1.183558 | .4289538 |
| age | -.0359711 | .0482366 | -0.75 | 0.460 | -.1330107 | .0610685 |
| year | -.1526728 | .171675 | -0.89 | 0.378 | -.4980384 | .1926928 |
| gpa | -.4128567 | .3540462 | -1.17 | 0.249 | -1.125106 | .2993924 |
| income | -.1363524 | .1838289 | -0.74 | 0.462 | -.5061684 | .2334636 |
| gender | .2384547 | .4224226 | 0.56 | 0.575 | -.6113499 | 1.088259 |
| cath | .1352564 | .5806901 | 0.23 | 0.817 | -1.032941 | 1.303454 |
| pid | -.5469281 | .1286168 | -4.25 | 0.000 | -.8056718 | -.2881845 |
| interest | .6723331 | .2874362 | 2.34 | 0.024 | .0940861 | 1.25058 |
| wchamp | .3951921 | .4522915 | 0.87 | 0.387 | -.5147011 | 1.305085 |
| _cons | 7.585336 | 1.877699 | 4.04 | 0.000 | 3.807894 | 11.36278 |

354 . regress papprove post age year gpa income gender cath pid interest wcham if condition == 7 | con

| Source | SS | df | MS | Number of obs | = | 178 |
|---|---|---|---|---|---|---|
| | | | | F(10, 167) | = | 7.28 |
| Model | 138.301765 | 10 | 13.8301765 | Prob > F | = | 0.0000 |
| Residual | 317.316212 | 167 | 1.90009708 | R-squared | = | 0.3035 |
| | | | | Adj R-squared | = | 0.2618 |
| Total | 455.617978 | 177 | 2.57411287 | Root MSE | = | 1.3784 |

| papprove | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.2334995 | .2099588 | -1.11 | 0.268 | -.648015 | .181016 |
| age | -.1009882 | .0410098 | -2.46 | 0.015 | -.1819526 | -.0200238 |
| year | .0571511 | .1034721 | 0.55 | 0.581 | -.1471309 | .2614331 |
| gpa | .0512394 | .2200233 | 0.23 | 0.816 | -.3831462 | .485625 |
| income | -.1459956 | .0944749 | -1.55 | 0.124 | -.3325147 | .0405236 |
| gender | -.1876189 | .2201873 | -0.85 | 0.395 | -.6223283 | .2470905 |
| cath | -.1565207 | .2532512 | -0.62 | 0.537 | -.6565072 | .3434659 |
| pid | -.467744 | .0712941 | -6.56 | 0.000 | -.608498 | -.3269901 |
| interest | .1923234 | .152681 | 1.26 | 0.210 | -.1091103 | .4937571 |
| wchamp | -.192442 | .2458975 | -0.78 | 0.435 | -.6779103 | .2930262 |
| _cons | 8.62724 | 1.174718 | 7.34 | 0.000 | 6.308028 | 10.94645 |

```
355 .
356 . *College satisfaction
357 . regress collsat post age year gpa topchoice alum income gender pid interest wchamp collid
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| | | | | Number of obs | = 574 |
| | | | | F(12, 561) | = 10.35 |
| Model | 228.348383 | 12 | 19.0290319 | Prob > F | = 0.0000 |
| Residual | 1031.09587 | 561 | 1.83796055 | R-squared | = 0.1813 |
| | | | | Adj R-squared | = 0.1638 |
| Total | 1259.44425 | 573 | 2.19798299 | Root MSE | = 1.3557 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .0052311 | .1145847 | 0.05 | 0.964 | -.2198364 | .2302985 |
| age | -.0178891 | .0130772 | -1.37 | 0.172 | -.0435754 | .0077971 |
| year | .0619891 | .0476138 | 1.30 | 0.193 | -.0315339 | .1555122 |
| gpa | .1663921 | .1228386 | 1.35 | 0.176 | -.0748875 | .4076718 |
| topchoice | .0231149 | .126204 | 0.18 | 0.855 | -.2247751 | .2710049 |
| alum | .1381274 | .121159 | 1.14 | 0.255 | -.0998533 | .3761082 |
| income | -.0071903 | .0486217 | -0.15 | 0.882 | -.102693 | .0883124 |
| gender | -.0119241 | .1169734 | -0.10 | 0.919 | -.2416834 | .2178352 |
| pid | .0270976 | .0338718 | 0.80 | 0.424 | -.0394335 | .0936286 |
| interest | -.0444285 | .0829456 | -0.54 | 0.592 | -.2073504 | .1184934 |
| wchamp | -.0588423 | .1521559 | -0.39 | 0.699 | -.3577071 | .2400225 |
| collid | .5274291 | .0530642 | 9.94 | 0.000 | .4232003 | .6316578 |
| _cons | 3.450131 | .5692459 | 6.06 | 0.000 | 2.332018 | 4.568245 |

```
358 . regress collsat post age year gpa topchoice alum income gender pid interest wchamp collid if con
```

| Source | SS | df | MS | | |
|---|---|---|---|---|---|
| | | | | Number of obs | = 180 |
| | | | | F(12, 167) | = 3.50 |
| Model | 91.0155542 | 12 | 7.58462952 | Prob > F | = 0.0001 |
| Residual | 362.22889 | 167 | 2.16903527 | R-squared | = 0.2008 |
| | | | | Adj R-squared | = 0.1434 |
| Total | 453.244444 | 179 | 2.53209187 | Root MSE | = 1.4728 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.4801241 | .2272828 | -2.11 | 0.036 | -.928842 | -.0314062 |
| age | -.0205248 | .0290605 | -0.71 | 0.481 | -.0778981 | .0368485 |
| year | -.0144483 | .0929553 | -0.16 | 0.877 | -.1979672 | .1690706 |
| gpa | .3701347 | .2707592 | 1.37 | 0.173 | -.1644173 | .9046867 |
| topchoice | -.4231789 | .2413068 | -1.75 | 0.081 | -.899584 | .0532262 |
| alum | .5643326 | .2490991 | 2.27 | 0.025 | .0725436 | 1.056122 |
| income | .0114072 | .0979402 | 0.12 | 0.907 | -.1819533 | .2047677 |
| gender | .000459 | .2246129 | 0.00 | 0.998 | -.4429877 | .4439057 |
| pid | .1700597 | .0708909 | 2.40 | 0.018 | .0301019 | .3100175 |
| interest | -.0749265 | .1679442 | -0.45 | 0.656 | -.4064938 | .2566408 |
| wchamp | .0440979 | .5394063 | 0.08 | 0.935 | -1.020836 | 1.109032 |
| collid | .3850058 | .1068086 | 3.60 | 0.000 | .1741366 | .595875 |
| _cons | 3.166373 | 1.230258 | 2.57 | 0.011 | .73751 | 5.595236 |

```
359 . regress collsat post age year gpa topchoice alum income gender pid interest wchamp collid if con
```

| Source | SS | df | MS | Number of obs | = | 160 |
|---|---|---|---|---|---|---|
| | | | | F(12, 147) | = | 3.48 |
| Model | 92.5160233 | 12 | 7.70966861 | Prob > F | = | 0.0002 |
| Residual | 325.427727 | 147 | 2.21379406 | R-squared | = | 0.2214 |
| | | | | Adj R-squared | = | 0.1578 |
| Total | 417.94375 | 159 | 2.62857704 | Root MSE | = | 1.4879 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | -.0001193 | .2469916 | -0.00 | 1.000 | -.4882323 | .4879936 |
| age | -.0235568 | .0206708 | -1.14 | 0.256 | -.064407 | .0172934 |
| year | .1954328 | .0973039 | 2.01 | 0.046 | .0031376 | .387728 |
| gpa | .3856369 | .2764617 | 1.39 | 0.165 | -.160716 | .9319897 |
| topchoice | -.2272035 | .2700303 | -0.84 | 0.401 | -.7608463 | .3064393 |
| alum | -.2981734 | .2671179 | -1.12 | 0.266 | -.8260606 | .2297138 |
| income | -.1305317 | .1065753 | -1.22 | 0.223 | -.3411495 | .080086 |
| gender | -.0293195 | .2595902 | -0.11 | 0.910 | -.5423303 | .4836912 |
| pid | -.0091226 | .0682067 | -0.13 | 0.894 | -.143915 | .1256697 |
| interest | .0522152 | .1799285 | 0.29 | 0.772 | -.3033655 | .4077959 |
| wchamp | .5023891 | .418825 | 1.20 | 0.232 | -.3253068 | 1.330085 |
| collid | .5981557 | .1157969 | 5.17 | 0.000 | .3693141 | .8269973 |
| _cons | 2.211612 | 1.211738 | 1.83 | 0.070 | -.1830649 | 4.606288 |

```
360 . regress collsat post age year gpa topchoice alum income gender pid interest wchamp collid if con
```

| Source | SS | df | MS | Number of obs | = | 57 |
|---|---|---|---|---|---|---|
| | | | | F(12, 44) | = | 1.90 |
| Model | 38.1871759 | 12 | 3.18226466 | Prob > F | = | 0.0610 |
| Residual | 73.707561 | 44 | 1.67517184 | R-squared | = | 0.3413 |
| | | | | Adj R-squared | = | 0.1616 |
| Total | 111.894737 | 56 | 1.9981203 | Root MSE | = | 1.2943 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .4014197 | .3792456 | 1.06 | 0.296 | -.3628996 | 1.165739 |
| age | .0250429 | .0471899 | 0.53 | 0.598 | -.070062 | .1201478 |
| year | -.0506604 | .1625838 | -0.31 | 0.757 | -.3783264 | .2770056 |
| gpa | -.2030141 | .3329381 | -0.61 | 0.545 | -.8740067 | .4679784 |
| topchoice | .7209391 | .3929959 | 1.83 | 0.073 | -.0710921 | 1.51297 |
| alum | -.0428911 | .3936265 | -0.11 | 0.914 | -.8361932 | .7504111 |
| income | .1308192 | .1866497 | 0.70 | 0.487 | -.2453487 | .506987 |
| gender | -.0732015 | .3863685 | -0.19 | 0.851 | -.851876 | .705473 |
| pid | -.1872419 | .1186699 | -1.58 | 0.122 | -.4264054 | .0519216 |
| interest | -.1509652 | .2839099 | -0.53 | 0.598 | -.723148 | .4212175 |
| wchamp | .0343918 | .3997363 | 0.09 | 0.932 | -.7712238 | .8400074 |
| collid | .4749145 | .1630897 | 2.91 | 0.006 | .1462288 | .8036002 |
| _cons | 4.334736 | 1.99138 | 2.18 | 0.035 | .3213736 | 8.348099 |

```
361 . regress collsat post age year gpa topchoice alum income gender pid interest wchamp collid if con
```

| Source | SS | df | MS | Number of obs | = | 177 |
|---|---|---|---|---|---|---|
| | | | | F(12, 164) | = | 7.12 |
| Model | 89.6286018 | 12 | 7.46905015 | Prob > F | = | 0.0000 |
| Residual | 172.111511 | 164 | 1.04946043 | R-squared | = | 0.3424 |
| | | | | Adj R-squared | = | 0.2943 |
| Total | 261.740113 | 176 | 1.48715973 | Root MSE | = | 1.0244 |

| collsat | Coef. | Std. Err. | t | P>\|t\| | [95% Conf. | Interval] |
|---|---|---|---|---|---|---|
| post | .2610791 | .1620724 | 1.61 | 0.109 | -.0589385 | .5810968 |
| age | -.0031207 | .0305297 | -0.10 | 0.919 | -.0634027 | .0571613 |
| year | .0594764 | .0769416 | 0.77 | 0.441 | -.0924474 | .2114002 |
| gpa | .1886124 | .1695243 | 1.11 | 0.268 | -.1461191 | .5233439 |
| topchoice | .2758041 | .1828602 | 1.51 | 0.133 | -.0852596 | .6368679 |
| alum | -.044072 | .1692155 | -0.26 | 0.795 | -.3781939 | .2900498 |
| income | .0910923 | .0708389 | 1.29 | 0.200 | -.0487817 | .2309662 |
| gender | .0633561 | .1623761 | 0.39 | 0.697 | -.2572612 | .3839734 |
| pid | -.0346553 | .0522574 | -0.66 | 0.508 | -.1378392 | .0685287 |
| interest | -.024158 | .1144693 | -0.21 | 0.833 | -.2501816 | .2018657 |
| wchamp | -.0292186 | .1815658 | -0.16 | 0.872 | -.3877264 | .3292893 |
| collid | .5782211 | .0749403 | 7.72 | 0.000 | .430249 | .7261933 |
| _cons | 2.615332 | .9325446 | 2.80 | 0.006 | .7739903 | 4.456673 |

362 .
end of do-file

363 . log close
      name:  **<unnamed>**
       log:  **C:\Users\Andrea\Downloads\OneDrive-2017-10-13\Replication log file JEPS.smcl**
  log type:  **smcl**
 closed on:  **14 Oct 2017, 06:08:49**