

```

.
. *a
. xtset code year

```

Panel variable: code (unbalanced)

Time variable: year, 1960 to 2000, but with gaps

Delta: 1 unit

```

. *data set is unbalanced

```

```

. *b
. list dem_ind if country == "United States" & year==1965

```

```

      +-----+
      | dem_ind |
      +-----+
1250. |      .92 |
      +-----+

```

```

. * Answer .92
. list dem_ind if country == "Uruguay" & year==1965

```

```

      +-----+
      | dem_ind |
      +-----+
1241. |         1 |
      +-----+

```

```

. * Answer 1
. list dem_ind if country == "Trinidad and Tobago" & year==1995

```

```

      +-----+
      | dem_ind |
      +-----+
1197. |         1 |
      +-----+

```

```
. *Answer 1
. list dem_ind if country == "Venezuela, RB" & year==1995
```

```

+-----+
| dem_ind |
+-----+
1279. | .6666667 |
+-----+
```

```
. * Answer 0.667
.
. *C
. sum dem_ind, detail
```

dem_ind				
Percentiles		Smallest		
1%	0	0		
5%	0	0		
10%	0	0	Obs	1,266
25%	.1666667	0	Sum of wgt.	1,266
50%	.5		Mean	.4990732
		Largest	Std. dev.	.3713367
75%	.8333333	1		
90%	1	1	Variance	.137891
95%	1	1	Skewness	.0955317
99%	1	1	Kurtosis	1.479739

```
. * Average overall democracy index is 0.499. The minimum and maximum values of
> the index are 0 and 1
> respectively.
. * standard deviation is .3713367
. * 10th percentile 0
```

```

. * 25th- .1667
. * 50th- .5
. * 75th- .8333
. * 90th- 1
.
. *d
. xtset code year

```

Panel variable: code (unbalanced)

Time variable: year, 1960 to 2000, but with gaps

Delta: 1 unit

```

. reg dem_ind log_gdppc, vce (cluster country)

```

Linear regression	Number of obs	=	958
	F(1, 149)	=	396.40
	Prob > F	=	0.0000
	R-squared	=	0.4385
	Root MSE	=	.2719

(Std. err. adjusted for 150 clusters in country)

		Robust				
dem_ind	Coefficient	std. err.	t	P> t	[95% conf. interval]	
log_gdppc	.2356731	.011837	19.91	0.000	.212283	.2590632
_cons	-1.354828	.1004215	-13.49	0.000	-1.553262	-1.156394

```

.
. *e
. *The coefficient of log of gdp is .2356731 . Thus a 1% change in log_gdppc l
> eads to a 0.002356731 ch
> ange in dem_ind.

```

```

. *Yes it is significant as p value is less than level of significance and the
> 95% CI doesn't contain
> 0.
.
. *f
. *If log of per capita income increases by 20%, democracy index would increas
> e by 0.046. The confiden
> ce interval becomes [4.246,5.18]
.
. *g
. xtset code year

```

Panel variable: code (unbalanced)

Time variable: year, 1960 to 2000, but with gaps

Delta: 1 unit

```

. xtreg dem_ind log_gdppc, fe vce (cluster country)

```

```

Fixed-effects (within) regression      Number of obs      =      958
Group variable: code                  Number of groups    =      150

R-sq:  Within = 0.0197                Obs per group: min =      1
      Between = 0.5365                  avg =      6.4
      Overall  = 0.4385                  max =      9

                                         F(1,149)           =      7.06
corr(u_i, Xb) = 0.6173                 Prob > F            =      0.0088

```

(Std. err. adjusted for 150 clusters in country)

		Robust				
dem_ind	Coefficient	std. err.	t	P> t	[95% conf. interval]	
log_gdppc	.083741	.0315258	2.66	0.009	.0214456	.1460364
_cons	-.115316	.257198	-0.45	0.655	-.6235425	.3929106
sigma_u	.26651952					
sigma_e	.20351058					
rho	.63168655	(fraction of variance due to u_i)				

```

.
. *h
. xtreg dem_ind log_gdppc i.year, fe vce (cluster country)

```

Fixed-effects (within) regression	Number of obs	=	958
Group variable: code	Number of groups	=	150
R-sq: Within	=	0.1182	
Between	=	0.3832	
Overall	=	0.3190	
	Obs per group: min	=	1
	avg	=	6.4
	max	=	9
	F(9,149)	=	5.65
corr(u_i, Xb)	=	0.4393	
	Prob > F	=	0.0000

(Std. err. adjusted for 150 clusters in country)

dem_ind	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
log_gdppc	.0535878	.042432	1.26	0.209	-.0302585	.137434
year						
1965	.0002347	.0209199	0.01	0.991	-.0411033	.0415727
1970	-.1268076	.0340453	-3.72	0.000	-.1940816	-.0595337
1975	-.1477264	.0370153	-3.99	0.000	-.2208692	-.0745836
1980	-.097822	.0355399	-2.75	0.007	-.1680494	-.0275947
1985	-.0871025	.0391062	-2.23	0.027	-.1643769	-.009828
1990	-.0421216	.0353035	-1.19	0.235	-.1118818	.0276385
1995	.0095646	.0426094	0.22	0.823	-.0746322	.0937613
2000	.0323636	.0432037	0.75	0.455	-.0530075	.1177348
_cons	.1802954	.327202	0.55	0.582	-.4662601	.8268508
sigma_u	.28355993					
sigma_e	.19397224					
rho	.68122712	(fraction of variance due to u_i)				

Fixed-effects (within) regression	Number of obs	=	958
Group variable: code	Number of groups	=	150
R-squared:	Obs per group:		
Within = 0.0197	min =		1
Between = 0.5365	avg =		6.4
Overall = 0.4385	max =		9
	F(1,807)	=	16.20
corr(u_i, Xb) = 0.6173	Prob > F	=	0.0001

dem_ind	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
log_gdppc	.083741	.0208046	4.03	0.000	.0429035	.1245785
_cons	-.115316	.1698581	-0.68	0.497	-.4487318	.2180999
sigma_u	.26651952					
sigma_e	.20351058					
rho	.63168655	(fraction of variance due to u_i)				

F test that all u_i=0: F(149, 807) = 6.04 Prob > F = 0.0000

```
. estimates store fe
```

```

. xtreg dem_ind log_gdppc, re

```

Random-effects GLS regression	Number of obs	=	958
Group variable: code	Number of groups	=	150
R-squared:	Obs per group:		
Within = 0.0197	min =		1
Between = 0.5365	avg =		6.4
Overall = 0.4385	max =		9
	Wald chi2(1)	=	160.81
corr(u_i, X) = 0 (assumed)	Prob > chi2	=	0.0000

dem_ind	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
log_gdppc	.1760781	.0138852	12.68	0.000	.1488636	.2032926
_cons	-.8733569	.1143129	-7.64	0.000	-1.097406	-.6493076
<hr/>						
sigma_u	.18989045					
sigma_e	.20351058					
rho	.46541996	(fraction of variance due to u_i)				

```
. estimates store re
```

```
. hausman fe re
```

---- Coefficients ----				
	(b)	(B)	(b-B)	sqrt(diag(V_b-V_B))
	fe	re	Difference	Std. err.
log_gdppc	.083741	.1760781	-.0923371	.015493

b = Consistent under H0 and Ha; obtained from xtreg.
B = Inconsistent under Ha, efficient under H0; obtained from xtreg.

Test of H0: Difference in coefficients not systematic

$$\begin{aligned}\text{chi2}(1) &= (b-B)'[(V_b-V_B)^{-1}](b-B) \\ &= 35.52\end{aligned}$$

Prob > chi2 = 0.0000

```
. *We can reject the null which implies fixed effects should be the model of c
> hoice
```

```
. log close
```

```
name: <unnamed>
```

```
log: /Users/ginanemade/Desktop/Columbia Semester 1/Econometrics - I/PS
```

```
> -8/Pia_PS_8.log
```

```
log type: text
```

```
closed on: 12 Dec 2022, 14:52:15
```

```
> -----
```

```
1  /*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  
    *** ***  
2  Author: Pia Mahajan  
3  Date:  March 13 2023  
4  Object: Clean census age for 2010  
5  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  
    *** ***/  
6  
7  /* Housekeeping */  
8  clear  
9  cap log close  
10 set scheme s2mono  
11 grstyle init  
12 grstyle set plain, horizontal grid dotted  
13  
14 if "`c(username)'"=="nicol"  {  
15     di "Nicolas"  
16     cd "C:/Users/nicol/Dropbox/elections_matching"  
17 }  
18 else if "`c(username)'"=="nicolaslonguetmarx"  {  
19     di "Nicolas"  
20     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"  
21 }  
22 else if "`c(username)'"=="pimahajan"  {  
23     di "Pia"  
24     cd "/Users/pimahajan/Dropbox/elections_matching/"  
25 }  
26  
27 cd 1_data/1_input/census/2010/age/nhgis0014_fixed  
28 do nhgis0014_ds172_2010_blk_grp.do  
29  
30 egen ct_00to17_tempwhite = rowtotal(h9a003 h9a004 h9a005 h9a006  
    h9a027 h9a028 h9a029 h9a030)  
31  
32 egen ct_18to19_tempwhite= rowtotal(h9a031 h9a007)  
33  
34 egen ct_20to21_tempwhite= rowtotal(h9a008 h9a009 h9a032 h9a033)  
35  
36 egen ct_22to24_tempwhite = rowtotal(h9a034 h9a010)  
37  
38 egen ct_25to29_tempwhite = rowtotal(h9a011 h9a035)  
39  
40 egen ct_30to34_tempwhite = rowtotal(h9a036 h9a012)  
41  
42 egen ct_35to39_tempwhite = rowtotal(h9a013 h9a037)  
43  
44 egen ct_40to44_tempwhite = rowtotal(h9a038 h9a014)  
45  
46 egen ct_45to49_tempwhite = rowtotal(h9a015 h9a039)  
47  
48 egen ct_50to54_tempwhite = rowtotal(h9a040 h9a016)  
49
```



```
50 egen ct_55to59_tempwhite = rowtotal(h9a017 h9a041)
51
52 egen ct_60to61_tempwhite = rowtotal(h9a042 h9a018)
53
54 egen ct_62to64_tempwhite = rowtotal(h9a019 h9a043)
55
56 egen ct_65to66_tempwhite = rowtotal(h9a044 h9a020)
57
58 egen ct_67to69_tempwhite = rowtotal(h9a021 h9a045)
59
60 egen ct_70to74_tempwhite = rowtotal(h9a046 h9a022)
61
62 egen ct_75to79_tempwhite = rowtotal(h9a023 h9a047)
63
64 egen ct_80to84_tempwhite = rowtotal(h9a048 h9a024)
65
66 egen ct_over85_tempwhite = rowtotal(h9a025 h9a049)
67
68
69 *test
70 egen tot_pop = rowtotal(ct_*)
71
72 assert tot_pop == h9a001
73 drop tot_pop
74 keep statea countya tracta blkgrpa ct_*
75
76 if "`c(username)'"=="nicolaslonguetmarx" {
77     di "Nicolas"
78     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
79 }
80 else if "`c(username)'"=="pimahajan" {
81     di "Pia"
82     cd "/Users/pimahajan/Dropbox/elections_matching/"
83 }
84
85 save "1_data/2_processed/census/temporary/age_2010_tempwhite",
86 replace
87
88
89 *African Americans
90 clear
91 if "`c(username)'"=="nicolaslonguetmarx" {
92     di "Nicolas"
93     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
94 }
95 else if "`c(username)'"=="pimahajan" {
96     di "Pia"
97     cd "/Users/pimahajan/Dropbox/elections_matching/"
98 }
99 cd 1_data/1_input/census/2010/age/nhgis0015_fixed
100 do nhgis0015_ds172_2010_blk_grp
```

```
101
102 egen ct_00to17_africanamerican= rowtotal(h9b003 h9b004 h9b005
      h9b006 h9b027 h9b028 h9b029 h9b030)
103
104 egen ct_18to19_africanamerican= rowtotal(h9b007 h9b031)
105
106 egen ct_20to21_africanamerican = rowtotal(h9b032 h9b033 h9b008
      h9b009)
107
108 egen ct_22to24_africanamerican = rowtotal(h9b010 h9b034)
109
110 egen ct_25to29_africanamerican = rowtotal(h9b035 h9b011)
111
112 egen ct_30to34_africanamerican = rowtotal(h9b012 h9b036)
113
114
115 egen ct_35to39_africanamerican = rowtotal(h9b037 h9b013)
116
117 egen ct_40to44_africanamerican = rowtotal(h9b014 h9b038)
118
119 egen ct_45to49_africanamerican = rowtotal(h9b039 h9b015)
120
121 egen ct_50to54_africanamerican = rowtotal(h9b016 h9b040)
122
123 egen ct_55to59_africanamerican = rowtotal(h9b041 h9b017)
124
125
126 egen ct_60to61_africanamerican = rowtotal(h9b018 h9b042)
127
128 egen ct_62to64_africanamerican = rowtotal(h9b043 h9b019)
129
130
131 egen ct_65to66_africanamerican = rowtotal(h9b020 h9b044)
132
133 egen ct_67to69_africanamerican = rowtotal(h9b045 h9b021)
134
135 egen ct_70to74_africanamerican = rowtotal(h9b022 h9b046)
136
137 egen ct_75to79_africanamerican = rowtotal(h9b047 h9b023)
138
139 egen ct_80to84_africanamerican = rowtotal(h9b024 h9b048)
140
141 egen ct_over85_africanamerican = rowtotal(h9b049 h9b025)
142
143 *test
144     egen tot_pop = rowtotal(ct_*)
145
146 assert tot_pop == h9b001
147 drop tot_pop
148 keep statea countya tracta blkgrpa ct_*
149
150 if "`c(username)'"=="nicolaslonguetmarx" {
```

```
151     di "Nicolas"
152     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
153 }
154 else if "`c(username)'"=="pimahajan" {
155     di "Pia"
156     cd "/Users/pimahajan/Dropbox/elections_matching/"
157 }
158
159 save "1_data/2_processed/census/temporary/age_2010_african",
replace
160 *American Indian & Alaskan Native
161
162
163 clear
164 if "`c(username)'"=="nicolaslonguetmarx" {
165     di "Nicolas"
166     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
167 }
168 else if "`c(username)'"=="pimahajan" {
169     di "Pia"
170     cd "/Users/pimahajan/Dropbox/elections_matching/"
171 }
172 cd 1_data/1_input/census/2010/age/nhgis0016_fixed
173 do nhgis0016_ds172_2010_blk_grp.do
174 egen ct_00to17_aian= rowtotal(h9c003 h9c004 h9c005 h9c006 h9c027
h9c028 h9c029 h9c030)
175
176 egen ct_18to19_aian= rowtotal(h9c031 h9c007)
177
178 egen ct_20to21_aian = rowtotal(h9c008 h9c009 h9c032 h9c033)
179
180 egen ct_22to24_aian = rowtotal(h9c034 h9c010)
181
182 egen ct_25to29_aian = rowtotal(h9c011 h9c035)
183
184 egen ct_30to34_aian = rowtotal(h9c036 h9c012)
185
186
187 egen ct_35to39_aian = rowtotal(h9c013 h9c037)
188
189 egen ct_40to44_aian = rowtotal(h9c038 h9c014)
190
191 egen ct_45to49_aian = rowtotal(h9c015 h9c039)
192
193 egen ct_50to54_aian = rowtotal(h9c040 h9c016)
194
195 egen ct_55to59_aian = rowtotal(h9c017 h9c041)
196
197
198 egen ct_60to61_aian = rowtotal(h9c042 h9c018)
199
200 egen ct_62to64_aian = rowtotal(h9c019 h9c043)
```

```
201
202
203 egen ct_65to66_aian = rowtotal(h9c044 h9c020)
204
205 egen ct_67to69_aian = rowtotal(h9c021 h9c045)
206
207 egen ct_70to74_aian = rowtotal(h9c046 h9c022)
208
209 egen ct_75to79_aian = rowtotal(h9c023 h9c047)
210
211 egen ct_80to84_aian = rowtotal(h9c048 h9c024)
212
213 egen ct_over85_aian = rowtotal(h9c025 h9c049)
214
215 *test
216 egen tot_pop = rowtotal(ct_*)
217
218 assert tot_pop == h9c001
219 drop tot_pop
220
221 keep statea countya tracta blkgrpa ct_*
222   if "`c(username)'"=="nicolaslonguetmarx" {
223       di "Nicolas"
224       cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
225   }
226   else if "`c(username)'"=="pimahajan" {
227       di "Pia"
228       cd "/Users/pimahajan/Dropbox/elections_matching/"
229   }
230
231 save "1_data/2_processed/census/temporary/age_2010_aian", replace
232
233 * Asian
234 clear
235 if "`c(username)'"=="nicolaslonguetmarx" {
236     di "Nicolas"
237     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
238 }
239 else if "`c(username)'"=="pimahajan" {
240     di "Pia"
241     cd "/Users/pimahajan/Dropbox/elections_matching/"
242 }
243
244 cd 1_data/1_input/census/2010/age/nhgis0017_fixed
245 do nhgis0017_ds172_2010_blk_grp.do
246 egen ct_00to17_asian= rowtotal(h9d003 h9d004 h9d005 h9d006 h9d027
    h9d028 h9d029 h9d030)
247
248 egen ct_18to19_asian= rowtotal(h9d031 h9d007)
249
250 egen ct_20to21_asian = rowtotal(h9d008 h9d009 h9d032 h9d033)
251
```

```
252 egen ct_22to24_asian = rowtotal(h9d034 h9d010)
253
254 egen ct_25to29_asian = rowtotal(h9d011 h9d035)
255
256 egen ct_30to34_asian = rowtotal(h9d036 h9d012)
257
258
259 egen ct_35to39_asian = rowtotal(h9d013 h9d037)
260
261 egen ct_40to44_asian = rowtotal(h9d038 h9d014)
262
263 egen ct_45to49_asian = rowtotal(h9d015 h9d039)
264
265 egen ct_50to54_asian = rowtotal(h9d040 h9d016)
266
267 egen ct_55to59_asian = rowtotal(h9d017 h9d041)
268
269
270 egen ct_60to61_asian = rowtotal(h9d042 h9d018)
271
272 egen ct_62to64_asian = rowtotal(h9d019 h9d043)
273
274
275 egen ct_65to66_asian = rowtotal(h9d044 h9d020)
276
277 egen ct_67to69_asian = rowtotal(h9d021 h9d045)
278
279 egen ct_70to74_asian = rowtotal(h9d046 h9d022)
280
281 egen ct_75to79_asian = rowtotal(h9d023 h9d047)
282
283 egen ct_80to84_asian = rowtotal(h9d048 h9d024)
284
285 egen ct_over85_asian = rowtotal(h9d025 h9d049)
286
287 *test
288 egen tot_pop = rowtotal(ct_*)
289
290 assert tot_pop == h9d001
291 drop tot_pop
292 keep statea countya tracta blkgrpa ct_*
293
294
295 if "`c(username)'"=="nicolaslonguetmarx" {
296     di "Nicolas"
297     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
298 }
299 else if "`c(username)'"=="pimahajan" {
300     di "Pia"
301     cd "/Users/pimahajan/Dropbox/elections_matching/"
302 }
303
```

```
304 save "1_data/2_processed/census/temporary/age_2010_asian", replace
305
306
307 *Native Hawaiian and pacific islander + some other race
308
309 clear
310
311 if "`c(username)'"=="nicolaslonguetmarx" {
312     di "Nicolas"
313     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
314 }
315 else if "`c(username)'"=="pimahajan" {
316     di "Pia"
317     cd "/Users/pimahajan/Dropbox/elections_matching/"
318 }
319 cd 1_data/1_input/census/2010/age/nhgis0018_fixed
320 do nhgis0018_ds172_2010_blck_grp.do
321 egen ct_00to17_nhpi= rowtotal(h9e003 h9e004 h9e005 h9e006 h9e027
h9e028 h9e029 h9e030)
322
323 egen ct_18to19_nhpi= rowtotal(h9e031 h9e007)
324
325 egen ct_20to21_nhpi = rowtotal(h9e008 h9e009 h9e033 h9e032)
326
327 egen ct_22to24_nhpi = rowtotal(h9e034 h9e010)
328
329 egen ct_25to29_nhpi = rowtotal(h9e011 h9e035)
330
331 egen ct_30to34_nhpi = rowtotal(h9e036 h9e012)
332
333
334 egen ct_35to39_nhpi = rowtotal(h9e013 h9e037)
335
336 egen ct_40to44_nhpi = rowtotal(h9e038 h9e014)
337
338 egen ct_45to49_nhpi = rowtotal(h9e015 h9e039)
339
340 egen ct_50to54_nhpi = rowtotal(h9e040 h9e016)
341
342 egen ct_55to59_nhpi = rowtotal(h9e017 h9e041)
343
344
345 egen ct_60to61_nhpi = rowtotal(h9e042 h9e018)
346
347 egen ct_62to64_nhpi = rowtotal(h9e019 h9e043)
348
349
350 egen ct_65to66_nhpi = rowtotal(h9e044 h9e020)
351
352 egen ct_67to69_nhpi = rowtotal(h9e021 h9e045)
353
354 egen ct_70to74_nhpi = rowtotal(h9e046 h9e022)
```

```
355
356 egen ct_75to79_nhpi = rowtotal(h9e023 h9e047)
357
358 egen ct_80to84_nhpi = rowtotal(h9e048 h9e024)
359
360 egen ct_over85_nhpi = rowtotal(h9e025 h9e049)
361
362 *test
363 egen tot_pop = rowtotal(ct_*)
364
365 assert tot_pop == h9e001
366 drop tot_pop
367 keep statea countya tracta blkgrpa ct_*
368
369
370 if "`c(username)'"=="nicolaslonguetmarx" {
371     di "Nicolas"
372     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
373 }
374 else if "`c(username)'"=="pimahajan" {
375     di "Pia"
376     cd "/Users/pimahajan/Dropbox/elections_matching/"
377 }
378
379 save "1_data/2_processed/census/temporary/age_2010_nhpi", replace
380
381
382
383 *other
384
385 clear
386 if "`c(username)'"=="nicolaslonguetmarx" {
387     di "Nicolas"
388     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
389 }
390 else if "`c(username)'"=="pimahajan" {
391     di "Pia"
392     cd "/Users/pimahajan/Dropbox/elections_matching/"
393 }
394 cd 1_data/1_input/census/2010/age/nhgis0018_fixed
395 do nhgis0018_ds172_2010_blk_grp.do
396 egen ct_00to17_other= rowtotal(h9f003 h9f004 h9f005 h9f006 h9f027
    h9f028 h9f029 h9f030)
397
398 egen ct_18to19_other= rowtotal(h9f031 h9f007)
399
400 egen ct_20to21_other = rowtotal(h9f008 h9f009 h9f032 h9f033)
401
402 egen ct_22to24_other = rowtotal(h9f034 h9f010)
403
404 egen ct_25to29_other = rowtotal(h9f011 h9f035)
405
```

```
406 egen ct_30to34_other = rowtotal(h9f036 h9f012)
407
408
409 egen ct_35to39_other = rowtotal(h9f013 h9f037)
410
411 egen ct_40to44_other = rowtotal(h9f038 h9f014)
412
413 egen ct_45to49_other = rowtotal(h9f015 h9f039)
414
415 egen ct_50to54_other = rowtotal(h9f040 h9f016)
416
417 egen ct_55to59_other = rowtotal(h9f017 h9f041)
418
419
420 egen ct_60to61_other = rowtotal(h9f042 h9f018)
421
422 egen ct_62to64_other = rowtotal(h9f019 h9f043)
423
424
425 egen ct_65to66_other = rowtotal(h9f044 h9f020)
426
427 egen ct_67to69_other = rowtotal(h9f021 h9f045)
428
429 egen ct_70to74_other = rowtotal(h9f046 h9f022)
430
431 egen ct_75to79_other = rowtotal(h9f023 h9f047)
432
433 egen ct_80to84_other = rowtotal(h9f048 h9f024)
434
435 egen ct_over85_other = rowtotal(h9f025 h9f049)
436 *test
437 egen tot_pop = rowtotal(ct_*)
438 assert tot_pop == h9f002 + h9f026
439 drop tot_pop
440
441 keep statea countya tracta blkgrpa ct_*
442
443
444 if "`c(username)'"=="nicolaslonguetmarx" {
445     di "Nicolas"
446     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
447 }
448 else if "`c(username)'"=="pimahajan" {
449     di "Pia"
450     cd "/Users/pimahajan/Dropbox/elections_matching/"
451 }
452
453 save "1_data/2_processed/census/temporary/age_2010_other", replace
454
455 *two or more races
456
457 clear
```



```
458   if "`c(username)'"=="nicolaslonguetmarx" {
459       di "Nicolas"
460       cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
461   }
462   else if "`c(username)'"=="pimahajan" {
463       di "Pia"
464       cd "/Users/pimahajan/Dropbox/elections_matching/"
465   }
466   cd 1_data/1_input/census/2010/age/nhgis0035_fixed
467   do nhgis0035_ds172_2010_blk_grp.do
468
469   egen ct_00to17_twoormore= rowtotal(h9g003 h9g004 h9g005 h9g006
h9g027 h9g028 h9g029 h9g030)
470
471   egen ct_18to19_twoormore= rowtotal(h9g031 h9g007)
472
473   egen ct_20to21_twoormore = rowtotal(h9g008 h9g009 h9g032 h9g033)
474
475   egen ct_22to24_twoormore = rowtotal(h9g034 h9g010)
476
477   egen ct_25to29_twoormore = rowtotal(h9g011 h9g035)
478
479   egen ct_30to34_twoormore = rowtotal(h9g036 h9g012)
480
481
482   egen ct_35to39_twoormore = rowtotal(h9g013 h9g037)
483
484   egen ct_40to44_twoormore = rowtotal(h9g038 h9g014)
485
486   egen ct_45to49_twoormore = rowtotal(h9g015 h9g039)
487
488   egen ct_50to54_twoormore = rowtotal(h9g040 h9g016)
489
490   egen ct_55to59_twoormore = rowtotal(h9g017 h9g041)
491
492
493   egen ct_60to61_twoormore = rowtotal(h9g042 h9g018)
494
495   egen ct_62to64_twoormore = rowtotal(h9g019 h9g043)
496
497
498   egen ct_65to66_twoormore = rowtotal(h9g044 h9g020)
499
500   egen ct_67to69_twoormore = rowtotal(h9g021 h9g045)
501
502   egen ct_70to74_twoormore = rowtotal(h9g046 h9g022)
503
504   egen ct_75to79_twoormore = rowtotal(h9g023 h9g047)
505
506   egen ct_80to84_twoormore = rowtotal(h9g048 h9g024)
507
508   egen ct_over85_twoormore = rowtotal(h9g025 h9g049)
```

```
509
510
511 *test
512 egen tot_pop = rowtotal(ct_*)
513 assert tot_pop == h9g002 + h9g026
514 drop tot_pop
515
516 keep statea countya tracta blkgrpa ct_*
517
518
519 if "`c(username)'"=="nicolaslonguetmarx" {
520     di "Nicolas"
521     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
522 }
523 else if "`c(username)'"=="pimahajan" {
524     di "Pia"
525     cd "/Users/pimahajan/Dropbox/elections_matching/"
526 }
527
528 save "1_data/2_processed/census/temporary/age_2010_twoormore",
    replace
529
530
531
532 clear
533 if "`c(username)'"=="nicolaslonguetmarx" {
534     di "Nicolas"
535     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
536 }
537 else if "`c(username)'"=="pimahajan" {
538     di "Pia"
539     cd "/Users/pimahajan/Dropbox/elections_matching/"
540 }
541
542 use "1_data/2_processed/census/temporary/age_2010_other", replace
543 if "`c(username)'"=="nicolaslonguetmarx" {
544     di "Nicolas"
545     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
546 }
547 else if "`c(username)'"=="pimahajan" {
548     di "Pia"
549     cd "/Users/pimahajan/Dropbox/elections_matching/"
550 }
551
552 merge 1:1 statea countya tracta blkgrpa using
    "1_data/2_processed/census/temporary/age_2010_tempwhite.dta"
553 assert _m == 3
554 drop _m
555
556 if "`c(username)'"=="nicolaslonguetmarx" {
557     di "Nicolas"
558     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
```

```
559 }
560     else if "`c(username)'"=="pimahajan" {
561         di "Pia"
562         cd "/Users/pimahajan/Dropbox/elections_matching/"
563     }
564 merge 1:1 statea countya tracta blkgrpa using
565 "1_data/2_processed/census/temporary/age_2010_african.dta"
566 assert _m == 3
567 drop _m
568 if "`c(username)'"=="nicolaslonguetmarx" {
569     di "Nicolas"
570     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
571 }
572     else if "`c(username)'"=="pimahajan" {
573         di "Pia"
574         cd "/Users/pimahajan/Dropbox/elections_matching/"
575     }
576 merge 1:1 statea countya tracta blkgrpa using
577 "1_data/2_processed/census/temporary/age_2010_aian.dta"
578 assert _m == 3
579 drop _m
580 if "`c(username)'"=="nicolaslonguetmarx" {
581     di "Nicolas"
582     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
583 }
584     else if "`c(username)'"=="pimahajan" {
585         di "Pia"
586         cd "/Users/pimahajan/Dropbox/elections_matching/"
587     }
588 merge 1:1 statea countya tracta blkgrpa using
589 "1_data/2_processed/census/temporary/age_2010_asian.dta"
590 assert _m == 3
591 drop _m
592 if "`c(username)'"=="nicolaslonguetmarx" {
593     di "Nicolas"
594     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
595 }
596     else if "`c(username)'"=="pimahajan" {
597         di "Pia"
598         cd "/Users/pimahajan/Dropbox/elections_matching/"
599     }
600 merge 1:1 statea countya tracta blkgrpa using
601 "1_data/2_processed/census/temporary/age_2010_nhpi.dta"
602 assert _m == 3
603 drop _m
604 if "`c(username)'"=="nicolaslonguetmarx" {
605     di "Nicolas"
606     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
```

```
607 }
608     else if "`c(username)'"=="pimahajan" {
609         di "Pia"
610         cd "/Users/pimahajan/Dropbox/elections_matching/"
611     }
612
613     save "1_data/2_processed/census/temporary/age_2010_other", replace
614
615     merge 1:1 statea countya tracta blkgrpa using
616     "1_data/2_processed/census/temporary/age_2010_twoormore.dta"
617     assert _m == 3
618     drop _m
619
620     if "`c(username)'"=="nicolaslonguetmarx" {
621         di "Nicolas"
622         cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
623     }
624     else if "`c(username)'"=="pimahajan" {
625         di "Pia"
626         cd "/Users/pimahajan/Dropbox/elections_matching/"
627     }
628
629     save "1_data/2_processed/census/temporary/age_2010_other", replace
630
631     clear
632
633     if "`c(username)'"=="nicolaslonguetmarx" {
634         di "Nicolas"
635         cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
636     }
637     else if "`c(username)'"=="pimahajan" {
638         di "Pia"
639         cd "/Users/pimahajan/Dropbox/elections_matching/"
640     }
641     cd 1_data/1_input/census/2010/age/nhgis0033_fixed
642     do nhgis0033_ds172_2010_blk_grp.do
643
644     *white nhnl
645     egen ct_00to17_white = rowtotal(h9i003 h9i004 h9i005 h9i006
646     h9i027 h9i028 h9i029 h9i030)
647
648     egen ct_18to19_white= rowtotal(h9i031 h9i007)
649
650     egen ct_20to21_white= rowtotal(h9i008 h9i009 h9i032 h9i033)
651
652     egen ct_22to24_white = rowtotal(h9i034 h9i010)
653
654     egen ct_25to29_white = rowtotal(h9i011 h9i035)
655
656     egen ct_30to34_white = rowtotal(h9i036 h9i012)
```

```
657 egen ct_35to39_white = rowtotal(h9i013 h9i037)
658
659 egen ct_40to44_white = rowtotal(h9i038 h9i014)
660
661 egen ct_45to49_white = rowtotal(h9i015 h9i039)
662
663 egen ct_50to54_white = rowtotal(h9i040 h9i016)
664
665 egen ct_55to59_white = rowtotal(h9i017 h9i041)
666
667 egen ct_60to61_white = rowtotal(h9i042 h9i018)
668
669 egen ct_62to64_white = rowtotal(h9i019 h9i043)
670
671 egen ct_65to66_white = rowtotal(h9i044 h9i020)
672
673 egen ct_67to69_white = rowtotal(h9i021 h9i045)
674
675 egen ct_70to74_white = rowtotal(h9i046 h9i022)
676
677 egen ct_75to79_white = rowtotal(h9i023 h9i047)
678
679 egen ct_80to84_white = rowtotal(h9i024 h9i048)
680
681 egen ct_over85_white = rowtotal(h9i049 h9i025)
682
683 *test
684 egen ct_tot_pop = rowtotal(ct*_white)
685 egen ct_tot_pop2= rowtotal(h9i002 h9i026)
686 assert ct_tot_pop == ct_tot_pop2
687 drop ct_tot_pop ct_tot_pop2
688
689 keep statea countya tracta blkgrpa ct_*
690
691 if "`c(username)'"=="nicolaslonguetmarx" {
692     di "Nicolas"
693     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
694 }
695 else if "`c(username)'"=="pimahajan" {
696     di "Pia"
697     cd "/Users/pimahajan/Dropbox/elections_matching/"
698 }
699
700 save "1_data/2_processed/census/temporary/age_2010_white", replace
701
702
703 use "1_data/2_processed/census/temporary/age_2010_other", replace
704 if "`c(username)'"=="nicolaslonguetmarx" {
705     di "Nicolas"
706     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
707 }
708 else if "`c(username)'"=="pimahajan" {
```

```
709     di "Pia"
710     cd "/Users/piamahajan/Dropbox/elections_matching/"
711 }
712 * creating a column of white in the master data file
713 merge 1:1 statea countya tracta blkgrpa using
714 "1_data/2_processed/census/temporary/age_2010_white.dta
715 assert _m == 3
716 drop _m
717
718 if "`c(username)'"=="nicolaslonguetmarx" {
719     di "Nicolas"
720     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
721 }
722 else if "`c(username)'"=="piamahajan" {
723     di "Pia"
724     cd "/Users/piamahajan/Dropbox/elections_matching/"
725 }
726
727 save "1_data/2_processed/census/temporary/age_2010_other", replace
728
729
730
731
732 *creating final count of non white in the master data file
733 *Non white
734 if "`c(username)'"=="nicolaslonguetmarx" {
735     di "Nicolas"
736     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"
737 }
738 else if "`c(username)'"=="piamahajan" {
739     di "Pia"
740     cd "/Users/piamahajan/Dropbox/elections_matching/"
741 }
742 use "1_data/2_processed/census/temporary/age_2010_other", replace
743 gen ct_00to17_nonwhite= ct_00to17_africanamerican +
744 ct_00to17_aian +ct_00to17_asian +ct_00to17_nhpi +ct_00to17_other
745 +ct_00to17_twoormore+ ct_00to17_tempwhite - ct_00to17_white
746
747 gen ct_18to19_nonwhite= ct_18to19_africanamerican+ ct_18to19_aian
748 + ct_18to19_asian+ ct_18to19_nhpi+ ct_18to19_other +
749 ct_18to19_twoormore + ct_18to19_tempwhite - ct_18to19_white
750
751 gen ct_20to21_nonwhite = ct_20to21_africanamerican+
752 ct_20to21_aian + ct_20to21_asian + ct_20to21_nhpi +
753 ct_20to21_other+ ct_20to21_twoormore + ct_20to21_tempwhite -
754 ct_20to21_white
755
756 gen ct_22to24_nonwhite = ct_22to24_africanamerican +
757 ct_22to24_aian + ct_22to24_asian+ ct_22to24_nhpi +
758 ct_22to24_other + ct_22to24_twoormore + ct_22to24_tempwhite -
759 ct_22to24_white
```

```
750
751 gen ct_25to29_nonwhite = ct_25to29_africanamerican +
    ct_25to29_aian + ct_25to29_asian + ct_25to29_nhpi +
    ct_25to29_other + ct_25to29_twoormore +ct_25to29_tempwhite -
    ct_25to29_white
752
753 gen ct_30to34_nonwhite = ct_30to34_africanamerican +
    ct_30to34_aian + ct_30to34_asian + ct_30to34_nhpi +
    ct_30to34_other+ ct_30to34_twoormore + ct_30to34_tempwhite-
    ct_30to34_white
754
755 gen ct_35to39_nonwhite = ct_35to39_africanamerican +
    ct_35to39_aian + ct_35to39_asian + ct_35to39_nhpi +
    ct_35to39_other + ct_35to39_twoormore +ct_35to39_tempwhite -
    ct_35to39_white
756
757
758 gen ct_40to44_nonwhite = ct_40to44_africanamerican +
    ct_40to44_aian + ct_40to44_asian + ct_40to44_nhpi +
    ct_40to44_other + ct_40to44_twoormore + ct_40to44_tempwhite -
    ct_40to44_white
759
760 gen ct_45to49_nonwhite = ct_45to49_africanamerican +
    ct_45to49_aian + ct_45to49_asian + ct_45to49_nhpi +
    ct_45to49_other+ ct_45to49_twoormore+ct_45to49_tempwhite -
    ct_45to49_white
761
762 gen ct_50to54_nonwhite = ct_50to54_africanamerican +
    ct_50to54_aian + ct_50to54_asian + ct_50to54_nhpi +
    ct_50to54_other + ct_50to54_twoormore +ct_50to54_tempwhite-
    ct_50to54_white
763
764
765 gen ct_55to59_nonwhite = ct_55to59_africanamerican +
    ct_55to59_aian + ct_55to59_asian +ct_55to59_nhpi +
    ct_55to59_other + ct_55to59_twoormore + ct_55to59_tempwhite -
    ct_55to59_white
766
767
768 gen ct_60to61_nonwhite = ct_60to61_africanamerican +
    ct_60to61_aian+ ct_60to61_asian + ct_60to61_nhpi +
    ct_60to61_other + ct_60to61_twoormore + ct_60to61_tempwhite -
    ct_60to61_white
769
770
771 gen ct_62to64_nonwhite = ct_62to64_africanamerican +
    ct_62to64_aian + ct_62to64_asian + ct_62to64_nhpi +
    ct_62to64_other + ct_62to64_twoormore + ct_62to64_tempwhite -
    ct_62to64_white
772
773
774 gen ct_65to66_nonwhite = ct_65to66_africanamerican +
```

```
ct_65to66_aian + ct_65to66_asian + ct_65to66_nhpi +  
ct_65to66_other + ct_65to66_twoormore + ct_65to66_tempwhite -  
ct_65to66_white  
775  
776  
777 gen ct_67to69_nonwhite = ct_67to69_africanamerican +  
ct_67to69_aian + ct_67to69_asian + ct_67to69_nhpi +  
ct_67to69_other + ct_67to69_twoormore + ct_67to69_tempwhite -  
ct_67to69_white  
778  
779 gen ct_70to74_nonwhite = ct_70to74_africanamerican +  
ct_70to74_aian + ct_70to74_asian + ct_70to74_nhpi +  
ct_70to74_other + ct_70to74_twoormore + ct_70to74_tempwhite -  
ct_70to74_white  
780  
781  
782 gen ct_75to79_nonwhite = ct_75to79_africanamerican +  
ct_75to79_aian + ct_75to79_asian + ct_75to79_nhpi +  
ct_75to79_other + ct_75to79_twoormore + ct_75to79_tempwhite -  
ct_75to79_white  
783  
784  
785 gen ct_80to84_nonwhite = ct_80to84_africanamerican +  
ct_80to84_aian + ct_80to84_asian + ct_80to84_nhpi +  
ct_80to84_other + ct_80to84_twoormore + ct_80to84_tempwhite -  
ct_80to84_white  
786  
787  
788 gen ct_over85_nonwhite = ct_over85_africanamerican +  
ct_over85_aian + ct_over85_asian + ct_over85_nhpi +  
ct_over85_other + ct_over85_twoormore + ct_over85_tempwhite -  
ct_over85_white  
789  
790 keep statea countya tracta blkgrpa ct*_white ct*_nonwhite  
791  
792 if "`c(username)'"=="nicolaslonguetmarx" {  
793     di "Nicolas"  
794     cd "/Users/nicolaslonguetmarx/Dropbox/elections_matching"  
795 }  
796 else if "`c(username)'"=="pimahajan" {  
797     di "Pia"  
798     cd "/Users/pimahajan/Dropbox/elections_matching/"  
799 }  
800  
801 save "1_data/2_processed/census/age/age_2010.dta", replace  
802  
803
```